

**Appendix C:
Laboratory Sample Results
with Laboratory and
Validation Qualifiers**

Appendix C

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| Table C-1: | KCEL Stream Sediment Analytical Data 2008 |
| Table C-2. | KCEL Stream Sediment Analytical Data 2009 |
| Table C-3. | KCEL Stream Sediment Analytical Data 2010 |
| Table C-4. | KCEL Stream Sediment Analytical Data 2012 |
| Table C-5: | Dioxin/Furan Congener Results for Stream Sediment 2012 |

List of Lab and Data Qualifying Acronyms

| | | | |
|----------------|--|-----------|--|
| <RDL | Less than reporting detection limit | JG | Estimated value, probable low bias |
| <MDL | Less than method detection limit | TA | Additional narrative information available |
| B | The associated blank concentration is \geq MDL and the sample result is within 5 times the blank concentration. | U | Not detected |
| B2/B3 | The associated blank concentration is \geq MDL and the sample result is > 5 and ≤ 10 times the blank concentration. | UJ | Not detected, estimated value |
| H | Does not meet holding time criteria | | |
| J | Estimated value | | |

Table C-1: KCEL Stream Sediment Analytical Data 2008
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | | | |
|-------------------------------------|-------|-------------------|-------|------|----------|-------|-------------------|-------|------|-------|-------|------|-------|------|-------|------|---|
| Locator: '0317 | | K317 | | | | | L317 | | | | | | | | | | |
| Descrip: SPRINGBROOK CREEK/ | | SPRINGBROOK CREEK | | | | | SPRINGBROOK CREEK | | | | | | | | | | |
| Sample: L46069-8 | | L46094-12 | | | | | L46094-13 | | | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | | | |
| ColDate: 7/28/08 8:50 | | 8/5/08 10:15 | | | | | 8/5/08 11:30 | | | | | | | | | | |
| TotalSolid: 48.5 | | 33.1 | | | | | 18.8 | | | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | |
| CV ASTM D422(318V1) | | | | | | | | | | | | | | | | | |
| Clay* | 8.4 | | 1.1 | 2.11 | % | 14.9 | | 1.7 | 3.31 | % | 21.7 | | 2.7 | 5.44 | % | | |
| Fines* | 33.8 | | 1.1 | 2.11 | % | 18.2 | | 1.7 | 3.31 | % | 27.2 | | 2.7 | 5.44 | % | | |
| Gravel* | 9.8 | | 0.21 | 2.11 | % | 4.5 | J | 0.33 | 3.31 | % | 8.5 | | 0.54 | 5.44 | % | | |
| Sand* | 50.9 | | 0.21 | 2.11 | % | 72.7 | | 0.33 | 3.31 | % | 54.7 | | 0.54 | 5.44 | % | | |
| Silt* | 25.3 | | 1.1 | 2.11 | % | 3.3 | J | 1.7 | 3.31 | % | 5.4 | | 2.7 | 5.44 | % | | |
| p+0.00* | 1.5 | | 0.21 | 2.11 | % | 2 | | 0.33 | 3.31 | % | 0.6 | <RDL | 0.54 | 5.44 | % | | |
| p+1.00* | 1.2 | | 0.21 | 2.11 | % | 3.2 | | 0.33 | 3.31 | % | 7.9 | | 0.54 | 5.44 | % | | |
| p+10.0(equal/more than)* | 6.3 | | 1.1 | 2.11 | % | 11.6 | | 1.7 | 3.31 | % | 16.3 | | 2.7 | 5.44 | % | | |
| p+2.00* | 5.2 | | 0.21 | 2.11 | % | 36 | | 0.33 | 3.31 | % | 14.8 | | 0.54 | 5.44 | % | | |
| p+3.00* | 29.3 | | 0.21 | 2.11 | % | 16 | | 0.33 | 3.31 | % | 8.5 | | 0.54 | 5.44 | % | | |
| p+4.00* | 13.7 | | 0.21 | 2.11 | % | 15.5 | | 0.33 | 3.31 | % | 22.9 | | 0.54 | 5.44 | % | | |
| p+5.00* | 7.4 | | 1.1 | 2.11 | % | | | <MDL | 1.7 | 3.31 | % | | | <MDL | 2.7 | 5.44 | % |
| p+6.00* | 5.3 | | 1.1 | 2.11 | % | | | <MDL | 1.7 | 3.31 | % | 5.4 | | 2.7 | 5.44 | % | |
| p+7.00* | 6.3 | | 1.1 | 2.11 | % | 3.3 | | 1.7 | 3.31 | % | | | <MDL | 2.7 | 5.44 | % | |
| p+8.00* | 6.3 | | 1.1 | 2.11 | % | | | <MDL | 1.7 | 3.31 | % | | | <MDL | 2.7 | 5.44 | % |
| p+9.00* | 2.1 | | 1.1 | 2.11 | % | 3.3 | | 1.7 | 3.31 | % | 5.4 | | 2.7 | 5.44 | % | | |
| p-1.00* | 1.8 | | 0.21 | 2.11 | % | 1.4 | | 0.33 | 3.31 | % | 0.8 | <RDL | 0.54 | 5.44 | % | | |
| p-2.00* | 0.3 | <RDL | 0.21 | 2.11 | % | | | <MDL | 0.33 | 3.31 | % | | | <MDL | 0.54 | 5.44 | % |
| p-2.00(less than)* | 7.7 | | 0.21 | 2.11 | % | 3.2 | | 0.33 | 3.31 | % | 7.7 | | 0.54 | 5.44 | % | | |
| CV EPA 9060-PSEP96(337V3) | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | 29500 | | 3500 | 6930 | mg/Kg | 42600 | | 2500 | 5050 | mg/Kg | 53200 | | 2600 | 5090 | mg/Kg | | |
| CV SM2540-G (307V3) | | | | | | | | | | | | | | | | | |
| Total Solids* | 48.5 | | 0.005 | 0.01 | % | 33.1 | | 0.005 | 0.01 | % | 18.8 | | 0.005 | 0.01 | % | | |
| CV SM4500-NH3-G(332V1)KCL | | | | | | | | | | | | | | | | | |
| Ammonia Nitrogen | 23.9 | | 2 | 3.98 | mg/Kg | 29.3 | | 3 | 5.95 | mg/Kg | 34.4 | | 5.3 | 10.5 | mg/Kg | | |
| CV SM4500-P-F(332V1)OL | | | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 73 | | 4.1 | 10.3 | mg/Kg | 152 | | 15 | 37.5 | mg/Kg | 298 | | 26 | 64.9 | mg/Kg | | |
| CV SW846 9045C (303V5) | | | | | | | | | | | | | | | | | |
| pH* | 7.12 | | | | pH | 6.99 | | | | pH | 6.99 | | | | pH | | |
| MC SM 9221E 20TH (SOP 508V0) | | | | | | | | | | | | | | | | | |
| Fecal Coliform | 1650 | | | | MPN/100g | | | | | | | | | | | | |

Table C-1: KCEL Stream Sediment Analytical Data 2008
King County Environmental Lab Analytical Report

| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|------|-------------------------|--------|-------------------------|-------|-------------------------|-------|-------------------------|-------|-------------------------|------|-------------------------|--------|-------------------------|-----------------|---------|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|-----------------|-------|--|------|--|------|--|------|--|------|--|------|--|-------------------|--|-------------------|-----------------|--------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|--|-------------------|----------------|----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|----------------|---------------|--|---------------|--|---------------|--|---------------|--|---------------|--|---------------|--|---------------|--|---------------|-----------------|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--------------------|------|--|------|--|------|--|------|--|------|--|------|--|------|--|------|--|-------------------------|--|-------------------------|--|-------------------------|--|-------------------------|--|-------------------------|--|-------------------------|--|-------------------------|--|-------------------------|
| <table border="0" style="width:100%; border:none;"> <tr> <td style="width:20%;">Project:</td><td>421240C</td><td style="width:20%;"></td><td>421240C</td><td style="width:20%;"></td><td>421240C</td> <td style="width:20%;"></td><td>421240C</td><td style="width:20%;"></td><td>421240C</td><td style="width:20%;"></td><td>421240C</td><td style="width:20%;"></td><td>421240C</td><td style="width:20%;"></td><td>421240C</td> </tr> <tr> <td>Locator:</td><td>'0317</td><td></td><td>K317</td><td></td><td>L317</td> <td></td><td>K317</td><td></td><td>L317</td><td></td><td>L317</td><td></td><td>SPRINGBROOK CREEK</td><td></td><td>SPRINGBROOK CREEK</td> </tr> <tr> <td>Descrip:</td><td>SPRINGBROOK CREEK/</td><td></td><td>SPRINGBROOK CREEK</td><td></td><td>SPRINGBROOK CREEK</td> <td></td><td>SPRINGBROOK CREEK</td><td></td><td>SPRINGBROOK CREEK</td><td></td><td>SPRINGBROOK CREEK</td><td></td><td>SPRINGBROOK CREEK</td><td></td><td>SPRINGBROOK CREEK</td> </tr> <tr> <td>Sample:</td><td>L46069-8</td><td></td><td>L46094-12</td><td></td><td>L46094-13</td> <td></td><td>L46094-12</td><td></td><td>L46094-13</td><td></td><td>L46094-13</td><td></td><td>L46094-13</td><td></td><td>L46094-13</td> </tr> <tr> <td>Matrix:</td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td> <td></td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td> </tr> <tr> <td>ColDate:</td><td>7/28/08 8:50</td><td></td><td>8/5/08 10:15</td><td></td><td>8/5/08 11:30</td> <td></td><td>8/5/08 10:15</td><td></td><td>8/5/08 11:30</td><td></td><td>8/5/08 11:30</td><td></td><td>8/5/08 11:30</td><td></td><td>8/5/08 11:30</td> </tr> <tr> <td>TotalSolid:</td><td>48.5</td><td></td><td>33.1</td><td></td><td>18.8</td> <td></td><td>33.1</td><td></td><td>18.8</td><td></td><td>18.8</td><td></td><td>18.8</td><td></td><td>18.8</td> </tr> <tr> <td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td> <td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td> </tr> </table> | | | | | | | | | | | | | | | | Project: | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | Locator: | '0317 | | K317 | | L317 | | K317 | | L317 | | L317 | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | Descrip: | SPRINGBROOK CREEK/ | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | Sample: | L46069-8 | | L46094-12 | | L46094-13 | | L46094-12 | | L46094-13 | | L46094-13 | | L46094-13 | | L46094-13 | Matrix: | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | ColDate: | 7/28/08 8:50 | | 8/5/08 10:15 | | 8/5/08 11:30 | | 8/5/08 10:15 | | 8/5/08 11:30 | | 8/5/08 11:30 | | 8/5/08 11:30 | | 8/5/08 11:30 | TotalSolid: | 48.5 | | 33.1 | | 18.8 | | 33.1 | | 18.8 | | 18.8 | | 18.8 | | 18.8 | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis |
| Project: | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | 421240C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Locator: | '0317 | | K317 | | L317 | | K317 | | L317 | | L317 | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Descrip: | SPRINGBROOK CREEK/ | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample: | L46069-8 | | L46094-12 | | L46094-13 | | L46094-12 | | L46094-13 | | L46094-13 | | L46094-13 | | L46094-13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matrix: | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ColDate: | 7/28/08 8:50 | | 8/5/08 10:15 | | 8/5/08 11:30 | | 8/5/08 10:15 | | 8/5/08 11:30 | | 8/5/08 11:30 | | 8/5/08 11:30 | | 8/5/08 11:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TotalSolid: | 48.5 | | 33.1 | | 18.8 | | 33.1 | | 18.8 | | 18.8 | | 18.8 | | 18.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MT CVAA EPA 7471B (604V4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.0932 | | 0.0052 | 0.0511 | mg/Kg | 0.069 | <RDL | 0.015 | 0.151 | mg/Kg | 0.096 | <RDL | 0.026 | 0.255 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 11.5 | | 0.017 | 0.0849 | mg/Kg | 22.1 | | 0.025 | 0.127 | mg/Kg | 23.7 | | 0.045 | 0.224 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium, Total, ICP-MS | 1.5 | | 0.0085 | 0.0425 | mg/Kg | 2.28 | | 0.013 | 0.0637 | mg/Kg | 3.42 | | 0.022 | 0.112 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium, Total, ICP-MS | 22.9 | | 0.033 | 0.17 | mg/Kg | 29.3 | | 0.051 | 0.255 | mg/Kg | 39.4 | | 0.09 | 0.448 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper, Total, ICP-MS | 31.1 | | 0.068 | 0.34 | mg/Kg | 34.1 | | 0.1 | 0.511 | mg/Kg | 52.2 | | 0.18 | 0.899 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead, Total, ICP-MS | 25.6 | | 0.013 | 0.017 | mg/Kg | 27.5 | | 0.019 | 0.0255 | mg/Kg | 44 | | 0.034 | 0.0448 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel, Total, ICP-MS | 16.2 | | 0.017 | 0.0849 | mg/Kg | 21.7 | | 0.025 | 0.127 | mg/Kg | 19 | | 0.045 | 0.224 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphorus, Total, ICP-MS | 1810 | | 17 | 84.9 | mg/Kg | 2550 | | 25 | 127 | mg/Kg | 4010 | | 45 | 224 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver, Total, ICP-MS | 0.131 | | 0.0085 | 0.0425 | mg/Kg | 0.162 | | 0.013 | 0.0637 | mg/Kg | 0.365 | | 0.022 | 0.112 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc, Total, ICP-MS | 173 | | 0.085 | 0.425 | mg/Kg | 320 | | 0.13 | 0.637 | mg/Kg | 464 | | 0.22 | 1.12 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OR EPA 3520C/8270C (7-3-01-004) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bis(2-ethylhexyl)adipate | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bisphenol A | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total 4-Nonylphenol | | <MDL | 41 | 82.5 | ug/Kg | 743 | | 60 | 121 | ug/Kg | 941 | | 110 | 213 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OR EPA 3550B/8270C (7-3-01-004) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <MDL | 0.21 | 0.412 | ug/Kg | | <MDL | 0.3 | 0.604 | ug/Kg | | <MDL | 0.53 | 1.06 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | | <MDL | 0.41 | 0.825 | ug/Kg | | <MDL | 0.6 | 1.21 | ug/Kg | | <MDL | 1.1 | 2.13 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,2-Diphenylhydrazine | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,3-Dichlorobenzene | | <MDL | 0.41 | 0.825 | ug/Kg | | <MDL | 0.6 | 1.21 | ug/Kg | | <MDL | 1.1 | 2.13 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | | <MDL | 0.41 | 0.825 | ug/Kg | | <MDL | 0.6 | 1.21 | ug/Kg | | <MDL | 1.1 | 2.13 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dichlorophenol | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dimethylphenol | | <MDL | 2.1 | 4.12 | ug/Kg | | <MDL | 3 | 6.04 | ug/Kg | | <MDL | 5.3 | 10.6 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4-Dinitrotoluene | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,6-Dinitrotoluene | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chloronaphthalene | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chlorophenol | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | | <MDL | 4.1 | 8.25 | ug/Kg | | <MDL | 6 | 12.1 | ug/Kg | | <MDL | 11 | 21.3 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | | <MDL | 4.1 | 8.25 | ug/Kg | | <MDL | 6 | 12.1 | ug/Kg | | <MDL | 11 | 21.3 | ug/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table C-1: KCEL Stream Sediment Analytical Data 2008
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|-------------------|-----|------|-------|-------|-------------------|-----|------|-------|-------|------|-----|------|-------|
| Locator: '0317 | | K317 | | | | | L317 | | | | | | | | |
| Descrip: SPRINGBROOK CREEK/ | | SPRINGBROOK CREEK | | | | | SPRINGBROOK CREEK | | | | | | | | |
| Sample: L46069-8 | | L46094-12 | | | | | L46094-13 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 7/28/08 8:50 | | 8/5/08 10:15 | | | | | 8/5/08 11:30 | | | | | | | | |
| TotalSolid: 48.5 | | 33.1 | | | | | 18.8 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| 2-Nitrophenol | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg |
| 4-Bromophenyl Phenyl Ether | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| 4-Methylphenol | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Acenaphthene | | <MDL | 4.1 | 8.25 | ug/Kg | 6 | <RDL | 6 | 12.1 | ug/Kg | | <MDL | 11 | 21.3 | ug/Kg |
| Acenaphthylene | | <MDL | 4.1 | 8.25 | ug/Kg | | <MDL | 6 | 12.1 | ug/Kg | | <MDL | 11 | 21.3 | ug/Kg |
| Aniline | | <MDL | 82 | 165 | ug/Kg | | <MDL | 120 | 242 | ug/Kg | | <MDL | 210 | 426 | ug/Kg |
| Anthracene | | <MDL | 4.1 | 8.25 | ug/Kg | 24.1 | | 6 | 12.1 | ug/Kg | 42.3 | | 11 | 21.3 | ug/Kg |
| Benzo(a)anthracene | | <MDL | 4.1 | 8.25 | ug/Kg | 185 | | 6 | 12.1 | ug/Kg | 322 | | 11 | 21.3 | ug/Kg |
| Benzo(a)pyrene | | <MDL | 4.1 | 8.25 | ug/Kg | 248 | | 6 | 12.1 | ug/Kg | 487 | | 11 | 21.3 | ug/Kg |
| Benzo(b)fluoranthene | | <MDL | 4.1 | 8.25 | ug/Kg | 435 | | 6 | 12.1 | ug/Kg | 824 | | 11 | 21.3 | ug/Kg |
| Benzo(g,h,i)perylene | | <MDL | 4.1 | 8.25 | ug/Kg | 267 | | 6 | 12.1 | ug/Kg | 537 | | 11 | 21.3 | ug/Kg |
| Benzo(k)fluoranthene | | <MDL | 4.1 | 8.25 | ug/Kg | 390 | | 6 | 12.1 | ug/Kg | 771 | | 11 | 21.3 | ug/Kg |
| Benzoic Acid | 221 | | 21 | 41.2 | ug/Kg | 462 | | 30 | 60.4 | ug/Kg | 1010 | | 53 | 106 | ug/Kg |
| Benzyl Alcohol | | <MDL | 4.1 | 8.25 | ug/Kg | | <MDL | 6 | 12.1 | ug/Kg | 45.4 | | 11 | 21.3 | ug/Kg |
| Benzyl Butyl Phthalate | | <MDL | 8.2 | 16.5 | ug/Kg | 70.7 | | 12 | 24.2 | ug/Kg | 178 | | 21 | 42.6 | ug/Kg |
| Bis(2-Chloroethoxy)Methane | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Bis(2-Chloroethyl)Ether | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 32.6 | B | 8.2 | 16.5 | ug/Kg | 2180 | | 12 | 24.2 | ug/Kg | 3520 | | 21 | 42.6 | ug/Kg |
| Caffeine | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Carbazole | | <MDL | 4.1 | 8.25 | ug/Kg | 26.6 | | 6 | 12.1 | ug/Kg | 41.5 | | 11 | 21.3 | ug/Kg |
| Chrysene | | <MDL | 4.1 | 8.25 | ug/Kg | 335 | | 6 | 12.1 | ug/Kg | 628 | | 11 | 21.3 | ug/Kg |
| Coprostanol | | <MDL | 82 | 165 | ug/Kg | | <MDL | 120 | 242 | ug/Kg | | <MDL | 210 | 426 | ug/Kg |
| Di-N-Butyl Phthalate | | <MDL | 8.2 | 16.5 | ug/Kg | 33.5 | | 12 | 24.2 | ug/Kg | 96.8 | | 21 | 42.6 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 4.1 | 8.25 | ug/Kg | 75.8 | | 6 | 12.1 | ug/Kg | 174 | | 11 | 21.3 | ug/Kg |
| Dibenzofuran | | <MDL | 4.1 | 8.25 | ug/Kg | | <MDL | 6 | 12.1 | ug/Kg | 13 | <RDL | 11 | 21.3 | ug/Kg |
| Diethyl Phthalate | | <MDL | 8.2 | 16.5 | ug/Kg | 86.1 | | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | 55.9 | | 21 | 42.6 | ug/Kg |
| Fluoranthene | | <MDL | 4.1 | 8.25 | ug/Kg | 372 | | 6 | 12.1 | ug/Kg | 697 | | 11 | 21.3 | ug/Kg |
| Fluorene | | <MDL | 4.1 | 8.25 | ug/Kg | 20.5 | | 6 | 12.1 | ug/Kg | 37.2 | | 11 | 21.3 | ug/Kg |

Table C-1: KCEL Stream Sediment Analytical Data 2008
King County Environmental Lab Analytical Report

| Project: 421240C Locator: '0317 Descrip: SPRINGBROOK CREEK/ Sample: L46069-8 Matrix: SE FRSHWTRSED ColDate: 7/28/08 8:50 TotalSolid: 48.5 DRY Weight Basis | | | | | | 421240C K317 SPRINGBROOK CREEK L46094-12 SE FRSHWTRSED 8/5/08 10:15 33.1 DRY Weight Basis | | | | | | 421240C L317 SPRINGBROOK CREEK L46094-13 SE FRSHWTRSED 8/5/08 11:30 18.8 DRY Weight Basis | | | | | |
|---|-------|------|------|-------|-------|--|------|-----|-------|-------|-------|--|------|------|-------|--|--|
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | |
| Hexachlorobenzene | | <MDL | 0.21 | 0.412 | ug/Kg | | <MDL | 0.3 | 0.604 | ug/Kg | | <MDL | 0.53 | 1.06 | ug/Kg | | |
| Hexachlorobutadiene | | <MDL | 1 | 2.06 | ug/Kg | | <MDL | 1.5 | 3.02 | ug/Kg | | <MDL | 2.7 | 5.32 | ug/Kg | | |
| Hexachloroethane | | <MDL | 2.1 | 4.12 | ug/Kg | | <MDL | 3 | 6.04 | ug/Kg | | <MDL | 5.3 | 10.6 | ug/Kg | | |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 4.1 | 8.25 | ug/Kg | 243 | | 6 | 12.1 | ug/Kg | 518 | | 11 | 21.3 | ug/Kg | | |
| Isophorone | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | |
| N-Nitrosodi-N-Propylamine | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | |
| N-Nitrosodimethylamine | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | |
| N-Nitrosodiphenylamine | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | |
| Naphthalene | | <MDL | 4.1 | 8.25 | ug/Kg | | <MDL | 6 | 12.1 | ug/Kg | | <MDL | 11 | 21.3 | ug/Kg | | |
| Nitrobenzene | | <MDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | |
| Pentachlorophenol | | <MDL | 21 | 41.2 | ug/Kg | | <MDL | 30 | 60.4 | ug/Kg | | <MDL | 53 | 106 | ug/Kg | | |
| Phenanthrene | | <MDL | 4.1 | 8.25 | ug/Kg | 160 | | 6 | 12.1 | ug/Kg | 288 | | 11 | 21.3 | ug/Kg | | |
| Phenol | 13 | <RDL | 8.2 | 16.5 | ug/Kg | | <MDL | 12 | 24.2 | ug/Kg | | <MDL | 21 | 42.6 | ug/Kg | | |
| Pyrene | | <MDL | 4.1 | 8.25 | ug/Kg | 432 | | 6 | 12.1 | ug/Kg | 856 | | 11 | 21.3 | ug/Kg | | |
| OR EPA 8081A/8082 (7-3-03-002) | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| 4,4'-DDE | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| 4,4'-DDT | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Aldrin | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Alpha-BHC | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |
| Alpha-Chlordane | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |
| Beta-BHC | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |
| Delta-BHC | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |
| Dieldrin | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Endosulfan I | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Endosulfan II | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Endosulfan Sulfate | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Endrin | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Endrin Aldehyde | | <MDL | 1.4 | 2.74 | ug/Kg | | <MDL | 2 | 4.02 | ug/Kg | | <MDL | 3.6 | 7.07 | ug/Kg | | |
| Gamma-BHC (Lindane) | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |
| Gamma-Chlordane | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |
| Heptachlor | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg | | |

Table C-1: KCEL Stream Sediment Analytical Data 2008
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|--|-------|-------------------|--------|---------|-------|-------|-------------------|-------|---------|-------|-------|------|--------|-------|-------|
| Locator: '0317 | | K317 | | | | | L317 | | | | | | | | |
| Descrip: SPRINGBROOK CREEK/ | | SPRINGBROOK CREEK | | | | | SPRINGBROOK CREEK | | | | | | | | |
| Sample: L46069-8 | | L46094-12 | | | | | L46094-13 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 7/28/08 8:50 | | 8/5/08 10:15 | | | | | 8/5/08 11:30 | | | | | | | | |
| TotalSolid: 48.5 | | 33.1 | | | | | 18.8 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Hepachlor Epoxide | | <MDL | 0.68 | 1.38 | ug/Kg | | <MDL | 1 | 2.02 | ug/Kg | | <MDL | 1.8 | 3.55 | ug/Kg |
| Methoxychlor | | <MDL | 6.8 | 13.8 | ug/Kg | | <MDL | 10 | 20.2 | ug/Kg | | <MDL | 18 | 35.5 | ug/Kg |
| Toxaphene | | <MDL | 14 | 27.4 | ug/Kg | | <MDL | 20 | 40.2 | ug/Kg | | <MDL | 36 | 70.7 | ug/Kg |
| OR EPA 8081A/8082 (7-3-103-000) | | | | | | | | | | | | | | | |
| Aroclor 1016 | | <MDL | 1.7 | 3.44 | ug/Kg | | <MDL | 2.5 | 5.05 | ug/Kg | | <MDL | 4.4 | 8.88 | ug/Kg |
| Aroclor 1221 | | <MDL | 3.5 | 6.87 | ug/Kg | | <MDL | 5.1 | 10.1 | ug/Kg | | <MDL | 9 | 17.7 | ug/Kg |
| Aroclor 1232 | | <MDL | 3.5 | 6.87 | ug/Kg | | <MDL | 5.1 | 10.1 | ug/Kg | | <MDL | 9 | 17.7 | ug/Kg |
| Aroclor 1242 | | <MDL | 1.7 | 3.44 | ug/Kg | | <MDL | 2.5 | 5.05 | ug/Kg | | <MDL | 4.4 | 8.88 | ug/Kg |
| Aroclor 1248 | 2.1 | <RDL | 1.7 | 3.44 | ug/Kg | | <MDL | 2.5 | 5.05 | ug/Kg | 8.5 | <RDL | 4.4 | 8.88 | ug/Kg |
| Aroclor 1254 | 5.15 | | 1.7 | 3.44 | ug/Kg | 12 | | 2.5 | 5.05 | ug/Kg | 48.7 | | 4.4 | 8.88 | ug/Kg |
| Aroclor 1260 | 5.63 | | 1.7 | 3.44 | ug/Kg | 9.31 | | 2.5 | 5.05 | ug/Kg | 32.3 | | 4.4 | 8.88 | ug/Kg |
| Total Aroclors | 12.8 | | 1.7 | 3.44 | ug/Kg | 21.3 | | 2.5 | 5.05 | ug/Kg | 89.9 | | 4.4 | 8.88 | ug/Kg |
| OR WDOE NWTPH-DX (7-3-06-001) | | | | | | | | | | | | | | | |
| Lube Oil Range (>C24) | 440 | | 52 | 52 | mg/Kg | 890 | | 76 | 76 | mg/Kg | 1600 | | 130 | 130 | mg/Kg |
| Diesel Range (>C12-C24) | | | | | | | | | | | | | | | |
| CV EPA DEC 1991(334V0) | | | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 326 | JG | 13 | 51.5 | mg/Kg | 30.5 | JG | 0.76 | 3.02 | mg/Kg | 430 | JG | 34 | 133 | mg/Kg |
| MT CVAA EPA 245.1 (604V4) | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0021 | 0.00619 | mg/Kg | | <MDL | 0.003 | 0.00897 | mg/Kg | | <MDL | 0.0053 | 0.016 | mg/Kg |
| MT ICP EPA 200.7 (612V3) | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 3.9 | <RDL | 1 | 5.15 | mg/Kg | 14.1 | | 1.5 | 7.49 | mg/Kg | 13.7 | | 2.7 | 13.3 | mg/Kg |
| Cadmium, Extractable, SEM | 1.11 | | 0.082 | 0.412 | mg/Kg | 1.82 | | 0.12 | 0.598 | mg/Kg | 3.78 | | 0.21 | 1.06 | mg/Kg |
| Chromium, Extractable, SEM | 5.61 | | 0.12 | 0.619 | mg/Kg | 10.1 | | 0.18 | 0.897 | mg/Kg | 22.7 | | 0.32 | 1.6 | mg/Kg |
| Copper, Extractable, SEM | 17.9 | | 0.16 | 0.825 | mg/Kg | 25 | | 0.24 | 1.2 | mg/Kg | 42.1 | | 0.43 | 2.12 | mg/Kg |
| Lead, Extractable, SEM | 19.4 | | 0.82 | 4.12 | mg/Kg | 22.2 | | 2.4 | 12 | mg/Kg | 46.2 | | 2.1 | 10.6 | mg/Kg |
| Nickel, Extractable, SEM | 5.11 | | 0.21 | 1.03 | mg/Kg | 4.11 | | 0.6 | 2.99 | mg/Kg | 7.82 | | 0.53 | 2.65 | mg/Kg |
| Silver, Extractable, SEM | 0.27 | <RDL | 0.16 | 0.825 | mg/Kg | 0.33 | <RDL | 0.24 | 1.2 | mg/Kg | 0.48 | <RDL | 0.43 | 2.12 | mg/Kg |
| Zinc, Extractable, SEM | 109 | | 0.21 | 1.03 | mg/Kg | 267 | | 0.3 | 1.5 | mg/Kg | 478 | | 0.53 | 2.65 | mg/Kg |

* Not converted to dry weight basis

Table C-1: KCEL Stream Sediment Analytical Data 2008
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| | | | | | | | | | | |
|-------------------------------------|-------------------------|-------------|------------|------------|--------------|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | | 421240C | | | | |
| Locator: | M317 | | | | | N317 | | | | |
| Descrip: | SPRINGBROOK CREEK | | | | | SPRINGBROOK CREEK | | | | |
| Sample: | L46094-14 | | | | | L46094-15 | | | | |
| Matrix: | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | |
| ColDate: | 8/5/08 12:25 | | | | | 8/5/08 13:15 | | | | |
| TotalSolid: | 10.9 | | | | | 21.1 | | | | |
| | DRY Weight Basis | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| CV ASTM D422(318V1) | | | | | | | | | | |
| Clay* | 30.2 | | 4.3 | 8.63 | % | 14.7 | | 2.1 | 4.2 | % |
| Fines* | 64.7 | | 4.3 | 8.63 | % | 48.3 | | 2.1 | 4.2 | % |
| Gravel* | 4.6 | | 0.86 | 8.63 | % | 5.9 | | 0.42 | 4.2 | % |
| Sand* | 22.4 | | 0.86 | 8.63 | % | 40 | | 0.42 | 4.2 | % |
| Silt* | 34.5 | | 4.3 | 8.63 | % | 33.6 | | 2.1 | 4.2 | % |
| p+0.00* | 1.3 | | 0.86 | 8.63 | % | 2.3 | | 0.42 | 4.2 | % |
| p+1.00* | 1.4 | | 0.86 | 8.63 | % | 5.2 | | 0.42 | 4.2 | % |
| p+10.0(equal/more than)* | 21.6 | | 4.3 | 8.63 | % | 10.5 | | 2.1 | 4.2 | % |
| p+2.00* | 4.1 | | 0.86 | 8.63 | % | 17.5 | | 0.42 | 4.2 | % |
| p+3.00* | 6.3 | | 0.86 | 8.63 | % | 7.3 | | 0.42 | 4.2 | % |
| p+4.00* | 9.3 | | 0.86 | 8.63 | % | 7.8 | | 0.42 | 4.2 | % |
| p+5.00* | 25.9 | | 4.3 | 8.63 | % | 18.9 | | 2.1 | 4.2 | % |
| p+6.00* | | <MDL | 4.3 | 8.63 | % | 6.3 | | 2.1 | 4.2 | % |
| p+7.00* | 4.3 | | 4.3 | 8.63 | % | 4.2 | | 2.1 | 4.2 | % |
| p+8.00* | 4.3 | | 4.3 | 8.63 | % | 4.2 | | 2.1 | 4.2 | % |
| p+9.00* | 8.6 | | 4.3 | 8.63 | % | 4.2 | | 2.1 | 4.2 | % |
| p-1.00* | 1.2 | | 0.86 | 8.63 | % | 2.2 | | 0.42 | 4.2 | % |
| p-2.00* | | <MDL | 0.86 | 8.63 | % | | <MDL | 0.42 | 4.2 | % |
| p-2.00(less than)* | 3.4 | | 0.86 | 8.63 | % | 3.7 | | 0.42 | 4.2 | % |
| CV EPA 9060-PSEP96(337V3) | | | | | | | | | | |
| Total Organic Carbon | 113000 | | 4000 | 8040 | mg/Kg | 93800 | | 3900 | 7770 | mg/Kg |
| CV SM2540-G (307V3) | | | | | | | | | | |
| Total Solids* | 10.9 | | 0.005 | 0.01 | % | 21.1 | | 0.005 | 0.01 | % |
| CV SM4500-NH3-G(332V1)KCL | | | | | | | | | | |
| Ammonia Nitrogen | 77.2 | | 8.5 | 17 | mg/Kg | 38.7 | | 4.4 | 8.77 | mg/Kg |
| CV SM4500-P-F(332V1)OL | | | | | | | | | | |
| Orthophosphate Phosphorus | 474 | | 45 | 112 | mg/Kg | 84.4 | | 4.6 | 11.7 | mg/Kg |
| CV SW846 9045C (303V5) | | | | | | | | | | |
| pH* | 7.68 | | | | pH | 7.32 | | | | pH |
| MC SM 9221E 20TH (SOP 508V0) | | | | | | | | | | |
| Fecal Coliform | | | | | | | | | | |

Table C-1: KCEL Stream Sediment Analytical Data 2008
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| Project: 421240C | | 421240C | | | | | | | | |
|--|-------|-------------------|-------|--------|-------|-------|------|-------|--------|-------|
| Locator: M317 | | N317 | | | | | | | | |
| Descrip: SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | | | | | | | |
| Sample: L46094-14 | | L46094-15 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/5/08 12:25 | | 8/5/08 13:15 | | | | | | | | |
| TotalSolid: 10.9 | | 21.1 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| MT CVAA EPA 7471B (604V4) | | | | | | | | | | |
| Mercury, Total, CVAA | 0.16 | <RDL | 0.023 | 0.228 | mg/Kg | 0.122 | | 0.012 | 0.119 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 56.6 | | 0.079 | 0.393 | mg/Kg | 13.4 | | 0.04 | 0.202 | mg/Kg |
| Cadmium, Total, ICP-MS | 2.75 | | 0.039 | 0.196 | mg/Kg | 1.16 | | 0.02 | 0.101 | mg/Kg |
| Chromium, Total, ICP-MS | 46.2 | | 0.16 | 0.785 | mg/Kg | 36.4 | | 0.081 | 0.403 | mg/Kg |
| Copper, Total, ICP-MS | 112 | | 0.31 | 1.57 | mg/Kg | 52.6 | | 0.16 | 0.806 | mg/Kg |
| Lead, Total, ICP-MS | 60.5 | | 0.059 | 0.0785 | mg/Kg | 43.1 | | 0.03 | 0.0403 | mg/Kg |
| Nickel, Total, ICP-MS | 38.4 | | 0.079 | 0.393 | mg/Kg | 32.8 | | 0.04 | 0.202 | mg/Kg |
| Phosphorus, Total, ICP-MS | 4280 | | 79 | 393 | mg/Kg | 1240 | | 40 | 202 | mg/Kg |
| Silver, Total, ICP-MS | 0.25 | | 0.039 | 0.196 | mg/Kg | 0.178 | | 0.02 | 0.101 | mg/Kg |
| Zinc, Total, ICP-MS | 954 | | 0.39 | 1.96 | mg/Kg | 397 | | 0.2 | 1.01 | mg/Kg |
| OR EPA 3520C/8270C (7-3-01-004) | | | | | | | | | | |
| Bis(2-ethylhexyl)adipate | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| Bisphenol A | | <MDL | 92 | 183 | ug/Kg | 52 | <RDL | 47 | 94.8 | ug/Kg |
| Total 4-Nonylphenol | | <MDL | 180 | 367 | ug/Kg | 697 | | 95 | 190 | ug/Kg |
| OR EPA 3550B/8270C (7-3-01-004) | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <MDL | 0.92 | 1.83 | ug/Kg | | <MDL | 0.47 | 0.948 | ug/Kg |
| 1,2-Dichlorobenzene | | <MDL | 1.8 | 3.67 | ug/Kg | | <MDL | 0.95 | 1.9 | ug/Kg |
| 1,2-Diphenylhydrazine | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 1,3-Dichlorobenzene | | <MDL | 1.8 | 3.67 | ug/Kg | | <MDL | 0.95 | 1.9 | ug/Kg |
| 1,4-Dichlorobenzene | | <MDL | 1.8 | 3.67 | ug/Kg | | <MDL | 0.95 | 1.9 | ug/Kg |
| 2,4,5-Trichlorophenol | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| 2,4,6-Trichlorophenol | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| 2,4-Dichlorophenol | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 2,4-Dimethylphenol | | <MDL | 9.2 | 18.3 | ug/Kg | | <MDL | 4.7 | 9.48 | ug/Kg |
| 2,4-Dinitrotoluene | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 2,6-Dinitrotoluene | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| 2-Chloronaphthalene | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 2-Chlorophenol | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 2-Methylnaphthalene | | <MDL | 18 | 36.7 | ug/Kg | | <MDL | 9.5 | 19 | ug/Kg |
| 2-Methylphenol | | <MDL | 18 | 36.7 | ug/Kg | | <MDL | 9.5 | 19 | ug/Kg |

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| Project: 421240C Locator: M317 Descrip: SPRINGBROOK CREEK Sample: L46094-14 Matrix: SE FRSHWTRSED ColDate: 8/5/08 12:25 TotalSolid: 10.9 DRY Weight Basis | | Project: 421240C Locator: N317 Descrip: SPRINGBROOK CREEK Sample: L46094-15 Matrix: SE FRSHWTRSED ColDate: 8/5/08 13:15 TotalSolid: 21.1 DRY Weight Basis | | | | | | | | |
|--|-------|--|-----|------|-------|-------|------|-----|------|-------|
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| 2-Nitrophenol | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| 4-Bromophenyl Phenyl Ether | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| 4-Methylphenol | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Acenaphthene | | <MDL | 18 | 36.7 | ug/Kg | 11 | <RDL | 9.5 | 19 | ug/Kg |
| Acenaphthylene | | <MDL | 18 | 36.7 | ug/Kg | | <MDL | 9.5 | 19 | ug/Kg |
| Aniline | | <MDL | 370 | 734 | ug/Kg | | <MDL | 190 | 379 | ug/Kg |
| Anthracene | | <MDL | 18 | 36.7 | ug/Kg | 38 | | 9.5 | 19 | ug/Kg |
| Benzo(a)anthracene | | <MDL | 18 | 36.7 | ug/Kg | 327 | | 9.5 | 19 | ug/Kg |
| Benzo(a)pyrene | | <MDL | 18 | 36.7 | ug/Kg | 265 | | 9.5 | 19 | ug/Kg |
| Benzo(b)fluoranthene | | <MDL | 18 | 36.7 | ug/Kg | 559 | | 9.5 | 19 | ug/Kg |
| Benzo(g,h,i)perylene | | <MDL | 18 | 36.7 | ug/Kg | 310 | | 9.5 | 19 | ug/Kg |
| Benzo(k)fluoranthene | | <MDL | 18 | 36.7 | ug/Kg | 388 | | 9.5 | 19 | ug/Kg |
| Benzoic Acid | 1140 | | 92 | 183 | ug/Kg | 555 | | 47 | 94.8 | ug/Kg |
| Benzyl Alcohol | | <MDL | 18 | 36.7 | ug/Kg | | <MDL | 9.5 | 19 | ug/Kg |
| Benzyl Butyl Phthalate | 73.6 | | 37 | 73.4 | ug/Kg | 147 | | 19 | 37.9 | ug/Kg |
| Bis(2-Chloroethoxy)Methane | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Bis(2-Chloroethyl)Ether | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 1080 | B2 | 37 | 73.4 | ug/Kg | 3260 | | 19 | 37.9 | ug/Kg |
| Caffeine | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Carbazole | | <MDL | 18 | 36.7 | ug/Kg | 41.4 | | 9.5 | 19 | ug/Kg |
| Chrysene | | <MDL | 18 | 36.7 | ug/Kg | 630 | | 9.5 | 19 | ug/Kg |
| Coprostanol | | <MDL | 370 | 734 | ug/Kg | | <MDL | 190 | 379 | ug/Kg |
| Di-N-Butyl Phthalate | | <MDL | 37 | 73.4 | ug/Kg | 325 | | 19 | 37.9 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 18 | 36.7 | ug/Kg | 79.6 | | 9.5 | 19 | ug/Kg |
| Dibenzofuran | | <MDL | 18 | 36.7 | ug/Kg | | <MDL | 9.5 | 19 | ug/Kg |
| Diethyl Phthalate | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 37 | 73.4 | ug/Kg | 49.3 | | 19 | 37.9 | ug/Kg |
| Fluoranthene | | <MDL | 18 | 36.7 | ug/Kg | 592 | | 9.5 | 19 | ug/Kg |
| Fluorene | | <MDL | 18 | 36.7 | ug/Kg | 30.9 | | 9.5 | 19 | ug/Kg |

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King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | | | | |
|---------------------------------------|-------|-------------------|------|------|-------|-------|------|------|-------|-------|
| Locator: M317 | | N317 | | | | | | | | |
| Descrip: SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | | | | | | | |
| Sample: L46094-14 | | L46094-15 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/5/08 12:25 | | 8/5/08 13:15 | | | | | | | | |
| TotalSolid: 10.9 | | 21.1 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Hexachlorobenzene | | <MDL | 0.92 | 1.83 | ug/Kg | | <MDL | 0.47 | 0.948 | ug/Kg |
| Hexachlorobutadiene | | <MDL | 4.6 | 9.17 | ug/Kg | | <MDL | 2.4 | 4.74 | ug/Kg |
| Hexachloroethane | | <MDL | 9.2 | 18.3 | ug/Kg | | <MDL | 4.7 | 9.48 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 18 | 36.7 | ug/Kg | 258 | | 9.5 | 19 | ug/Kg |
| Isophorone | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| N-Nitrosodi-N-Propylamine | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| N-Nitrosodimethylamine | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| N-Nitrosodiphenylamine | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Naphthalene | | <MDL | 18 | 36.7 | ug/Kg | 10 | <RDL | 9.5 | 19 | ug/Kg |
| Nitrobenzene | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Pentachlorophenol | | <MDL | 92 | 183 | ug/Kg | | <MDL | 47 | 94.8 | ug/Kg |
| Phenanthrene | 21 | <RDL | 18 | 36.7 | ug/Kg | 294 | | 9.5 | 19 | ug/Kg |
| Phenol | | <MDL | 37 | 73.4 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Pyrene | | <MDL | 18 | 36.7 | ug/Kg | 877 | | 9.5 | 19 | ug/Kg |
| OR EPA 8081A/8082 (7-3-03-002) | | | | | | | | | | |
| 4,4'-DDD | 8.4 | <RDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| 4,4'-DDE | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| 4,4'-DDT | 8.2 | <RDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Aldrin | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Alpha-BHC | | <MDL | 3 | 6.12 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg |
| Alpha-Chlordane | | <MDL | 3 | 6.12 | ug/Kg | 2 | <RDL | 1.6 | 3.16 | ug/Kg |
| Beta-BHC | | <MDL | 3 | 6.12 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg |
| Delta-BHC | | <MDL | 3 | 6.12 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg |
| Dieldrin | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Endosulfan I | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Endosulfan II | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Endosulfan Sulfate | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Endrin | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Endrin Aldehyde | | <MDL | 6.1 | 12.2 | ug/Kg | | <MDL | 3.2 | 6.3 | ug/Kg |
| Gamma-BHC (Lindane) | | <MDL | 3 | 6.12 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg |
| Gamma-Chlordane | | <MDL | 3 | 6.12 | ug/Kg | 1.8 | <RDL | 1.6 | 3.16 | ug/Kg |
| Heptachlor | | <MDL | 3 | 6.12 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg |

Table C-1: KCEL Stream Sediment Analytical Data 2008
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| Project: 421240C | | 421240C | | | | | Project: 421240C | | 421240C | | | | |
|--|-------|-------------------|--------|--------|-------|-------|----------------------------|--------|-------------------|-------|--|--|--|
| Locator: M317 | | M317 | | | | | Locator: N317 | | N317 | | | | |
| Descrip: SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | | | | Descrip: SPRINGBROOK CREEK | | SPRINGBROOK CREEK | | | | |
| Sample: L46094-14 | | L46094-14 | | | | | Sample: L46094-15 | | L46094-15 | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | |
| ColDate: 8/5/08 12:25 | | 8/5/08 12:25 | | | | | ColDate: 8/5/08 13:15 | | 8/5/08 13:15 | | | | |
| TotalSolid: 10.9 | | 10.9 | | | | | TotalSolid: 21.1 | | 21.1 | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | | |
| Heptachlor Epoxide | | <MDL | 3 | 6.12 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg | | | |
| Methoxychlor | | <MDL | 30 | 61.2 | ug/Kg | | <MDL | 16 | 31.6 | ug/Kg | | | |
| Toxaphene | | <MDL | 61 | 122 | ug/Kg | | <MDL | 32 | 63 | ug/Kg | | | |
| OR EPA 8081A/8082 (7-3-103-000) | | | | | | | | | | | | | |
| Aroclor 1016 | | <MDL,TA | 13 | 26.3 | ug/Kg | | <MDL | 3.9 | 7.91 | ug/Kg | | | |
| Aroclor 1221 | | <MDL | 16 | 30.6 | ug/Kg | | <MDL | 8.1 | 15.8 | ug/Kg | | | |
| Aroclor 1232 | | <MDL | 16 | 30.6 | ug/Kg | | <MDL | 8.1 | 15.8 | ug/Kg | | | |
| Aroclor 1242 | | <MDL | 7.6 | 15.3 | ug/Kg | | <MDL | 3.9 | 7.91 | ug/Kg | | | |
| Aroclor 1248 | 16.8 | | 7.6 | 15.3 | ug/Kg | 10.7 | | 3.9 | 7.91 | ug/Kg | | | |
| Aroclor 1254 | 60.6 | | 7.6 | 15.3 | ug/Kg | 22 | | 3.9 | 7.91 | ug/Kg | | | |
| Aroclor 1260 | 39.6 | | 7.6 | 15.3 | ug/Kg | 21.3 | | 3.9 | 7.91 | ug/Kg | | | |
| Total Aroclors | 117 | | 7.6 | 15.3 | ug/Kg | 54 | | 3.9 | 7.91 | ug/Kg | | | |
| OR WDOE NWTPH-DX (7-3-06-001) | | | | | | | | | | | | | |
| Lube Oil Range (>C24) | 4600 | | 230 | 230 | mg/Kg | 1400 | | 120 | 120 | mg/Kg | | | |
| Diesel Range (>C12-C24) | | | | | | | | | | | | | |
| CV EPA DEC 1991(334V0) | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 121 | JG | 12 | 45.9 | mg/Kg | 1140 | JG | 30 | 118 | mg/Kg | | | |
| MT CVAA EPA 245.1 (604V4) | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0092 | 0.0277 | mg/Kg | | <MDL | 0.0047 | 0.0142 | mg/Kg | | | |
| MT ICP EPA 200.7 (612V3) | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 39.1 | | 4.6 | 23.1 | mg/Kg | 5.7 | <RDL | 2.4 | 11.8 | mg/Kg | | | |
| Cadmium, Extractable, SEM | 2.45 | | 0.37 | 1.84 | mg/Kg | 1.05 | | 0.19 | 0.943 | mg/Kg | | | |
| Chromium, Extractable, SEM | 20.7 | | 0.55 | 2.77 | mg/Kg | 10.4 | | 0.28 | 1.42 | mg/Kg | | | |
| Copper, Extractable, SEM | 106 | | 0.73 | 3.69 | mg/Kg | 35 | | 0.38 | 1.89 | mg/Kg | | | |
| Lead, Extractable, SEM | 70.7 | | 3.7 | 18.4 | mg/Kg | 39.3 | | 1.9 | 9.43 | mg/Kg | | | |
| Nickel, Extractable, SEM | 16.2 | | 0.92 | 4.61 | mg/Kg | 11.3 | | 0.47 | 2.36 | mg/Kg | | | |
| Silver, Extractable, SEM | 2.4 | <RDL | 0.73 | 3.69 | mg/Kg | | <MDL | 0.38 | 1.89 | mg/Kg | | | |
| Zinc, Extractable, SEM | 806 | | 0.92 | 4.61 | mg/Kg | 323 | | 0.47 | 2.36 | mg/Kg | | | |

* Not converted to dry weight basis

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | |
|--|-------|---------|-------|-------|-------|--|---------|-------|------|-------|-------|--|-------|-------|-------|--|--|
| Project: 421240C | | | | | | Project: 421240C | | | | | | Project: 421240C | | | | | |
| Locator: X322 | | | | | | Locator: BB322 | | | | | | Locator: E322 | | | | | |
| Descrip: NEWAUKUM CREEK NEA | | | | | | Descrip: SE 392ND ST | | | | | | Descrip: NEWAUKUM CREEK AT | | | | | |
| Sample: L48629-1 | | | | | | Sample: L48629-2 | | | | | | Sample: L48629-3 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | |
| ColDate: 8/10/09 11:10 | | | | | | ColDate: 8/10/09 9:50 | | | | | | ColDate: 8/10/09 12:10 | | | | | |
| TotalSolid: 59.8 | | | | | | TotalSolid: 35.4 | | | | | | TotalSolid: 61.7 | | | | | |
| DRY Weight Basis | | | | | | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | CV ASTM D422 | | | | | | CV ASTM D422 | | | | | |
| Clay* | | <MDL | 0.86 | 1.73 | % | | <MDL | 1.3 | 2.7 | % | | <MDL | 2.1 | 4.12 | % | | |
| Fines* | 8.6 | | 0.86 | 1.73 | % | 21.6 | | 1.3 | 2.7 | % | 37.1 | | 2.1 | 4.12 | % | | |
| Gravel* | 8.3 | | 0.17 | 1.73 | % | 11.1 | | 0.27 | 2.7 | % | 8.9 | | 0.41 | 4.12 | % | | |
| p+0.00* | 1.5 | | 0.17 | 1.73 | % | 16.7 | | 0.27 | 2.7 | % | 8.1 | | 0.41 | 4.12 | % | | |
| p+1.00* | 4.7 | | 0.17 | 1.73 | % | 19.2 | | 0.27 | 2.7 | % | 11.4 | | 0.41 | 4.12 | % | | |
| p+10.0(equal/more than)* | | <MDL | 0.86 | 1.73 | % | | <MDL | 1.3 | 2.7 | % | | <MDL | 2.1 | 4.12 | % | | |
| p+2.00* | 26.5 | | 0.17 | 1.73 | % | 12.7 | | 0.27 | 2.7 | % | 10.2 | | 0.41 | 4.12 | % | | |
| p+3.00* | 35.1 | | 0.17 | 1.73 | % | 8.5 | | 0.27 | 2.7 | % | 7.5 | | 0.41 | 4.12 | % | | |
| p+4.00* | 12.6 | | 0.17 | 1.73 | % | 6.2 | | 0.27 | 2.7 | % | 6.5 | | 0.41 | 4.12 | % | | |
| p+5.00* | 5.2 | | 0.86 | 1.73 | % | 16.2 | | 1.3 | 2.7 | % | 28.8 | | 2.1 | 4.12 | % | | |
| p+6.00* | 1.7 | | 0.86 | 1.73 | % | | <MDL | 1.3 | 2.7 | % | 4.1 | | 2.1 | 4.12 | % | | |
| p+7.00* | 1.7 | | 0.86 | 1.73 | % | 2.7 | | 1.3 | 2.7 | % | 2.1 | | 2.1 | 4.12 | % | | |
| p+8.00* | | <MDL | 0.86 | 1.73 | % | 2.7 | | 1.3 | 2.7 | % | 2.1 | | 2.1 | 4.12 | % | | |
| p+9.00* | | <MDL | 0.86 | 1.73 | % | | <MDL | 1.3 | 2.7 | % | | <MDL | 2.1 | 4.12 | % | | |
| p-1.00* | 3.8 | | 0.17 | 1.73 | % | 7.7 | | 0.27 | 2.7 | % | 5 | | 0.41 | 4.12 | % | | |
| p-2.00(less than)* | 3.3 | | 0.17 | 1.73 | % | 2.1 | | 0.27 | 2.7 | % | 2.7 | | 0.41 | 4.12 | % | | |
| p-2.00* | 1.2 | | 0.17 | 1.73 | % | 1.3 | | 0.27 | 2.7 | % | 1.2 | | 0.41 | 4.12 | % | | |
| Sand* | 80.5 | | 0.17 | 1.73 | % | 63.3 | | 0.27 | 2.7 | % | 43.6 | | 0.41 | 4.12 | % | | |
| Silt* | 8.6 | | 0.86 | 1.73 | % | 21.6 | | 1.3 | 2.7 | % | 37.1 | | 2.1 | 4.12 | % | | |
| CV EPA DEC 1991 | | | | | | CV EPA DEC 1991 | | | | | | CV EPA DEC 1991 | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | 0.42 | 1.66 | mg/Kg | | <MDL,JG | 0.71 | 2.82 | mg/Kg | | <MDL,JG | 0.41 | 1.62 | mg/Kg | | |
| CV KEROUEL & AMINOT 1997(KCL) | | | | | | CV KEROUEL & AMINOT 1997(KCL) | | | | | | CV KEROUEL & AMINOT 1997(KCL) | | | | | |
| Ammonia Nitrogen | 5.54 | | 0.25 | 0.495 | mg/Kg | 50.8 | | 0.68 | 1.37 | mg/Kg | 14.1 | | 0.39 | 0.791 | mg/Kg | | |
| CV SM2540-G | | | | | | CV SM2540-G | | | | | | CV SM2540-G | | | | | |
| Total Solids* | 59.8 | | 0.005 | 0.01 | % | 35.4 | | 0.005 | 0.01 | % | 61.7 | | 0.005 | 0.01 | % | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|------|-------------------------|---------|-------------------------|--------|------|--------|---------|-------|--------|------|--------|---------|-------|-----------------|---------|--|---------|--|---------|-----------------|------|--|-------|--|------|-----------------|--------------------|--|-------------|--|-------------------|----------------|----------|--|----------|--|----------|----------------|---------------|--|---------------|--|---------------|-----------------|---------------|--|--------------|--|---------------|--------------------|------|--|------|--|------|--|-------------------------|--|-------------------------|--|-------------------------|
| <table border="0" style="width:100%; border:none;"> <tr> <td style="width:20%;">Project:</td><td>421240C</td><td style="width:20%;"></td><td>421240C</td><td style="width:20%;"></td><td>421240C</td> </tr> <tr> <td>Locator:</td><td>X322</td><td></td><td>BB322</td><td></td><td>E322</td> </tr> <tr> <td>Descrip:</td><td>NEWAUKUM CREEK NEA</td><td></td><td>SE 392ND ST</td><td></td><td>NEWAUKUM CREEK AT</td> </tr> <tr> <td>Sample:</td><td>L48629-1</td><td></td><td>L48629-2</td><td></td><td>L48629-3</td> </tr> <tr> <td>Matrix:</td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td><td></td><td>SE FRSHWTRSED</td> </tr> <tr> <td>ColDate:</td><td>8/10/09 11:10</td><td></td><td>8/10/09 9:50</td><td></td><td>8/10/09 12:10</td> </tr> <tr> <td>TotalSolid:</td><td>59.8</td><td></td><td>35.4</td><td></td><td>61.7</td> </tr> <tr> <td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td><td></td><td>DRY Weight Basis</td> </tr> </table> | | | | | | | | | | | | | | | | Project: | 421240C | | 421240C | | 421240C | Locator: | X322 | | BB322 | | E322 | Descrip: | NEWAUKUM CREEK NEA | | SE 392ND ST | | NEWAUKUM CREEK AT | Sample: | L48629-1 | | L48629-2 | | L48629-3 | Matrix: | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | ColDate: | 8/10/09 11:10 | | 8/10/09 9:50 | | 8/10/09 12:10 | TotalSolid: | 59.8 | | 35.4 | | 61.7 | | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis |
| Project: | 421240C | | 421240C | | 421240C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Locator: | X322 | | BB322 | | E322 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Descrip: | NEWAUKUM CREEK NEA | | SE 392ND ST | | NEWAUKUM CREEK AT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample: | L48629-1 | | L48629-2 | | L48629-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matrix: | SE FRSHWTRSED | | SE FRSHWTRSED | | SE FRSHWTRSED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ColDate: | 8/10/09 11:10 | | 8/10/09 9:50 | | 8/10/09 12:10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TotalSolid: | 59.8 | | 35.4 | | 61.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DRY Weight Basis | | DRY Weight Basis | | DRY Weight Basis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CV SM4500-P-F OL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 14.7 | | 1.6 | 4 | mg/Kg | 46.6 | | 2.8 | 6.95 | mg/Kg | 24 | | 1.6 | 3.94 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CV SW846 9045C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH* | 7.3 | | | | pH | 7.57 | | | | pH | 7.21 | | | | pH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | 9180 | | 1000 | 2020 | mg/Kg | 36700 | | 3700 | 7230 | mg/Kg | 25900 | | 3200 | 6420 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MT EPA 200.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 0.9 | <RDL | 0.84 | 4.16 | mg/Kg | 1.6 | <RDL | 1.4 | 7.06 | mg/Kg | 0.81 | <RDL | 0.81 | 4.05 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium, Extractable, SEM | | <MDL | 0.067 | 0.333 | mg/Kg | 0.16 | <RDL | 0.11 | 0.565 | mg/Kg | | <MDL | 0.065 | 0.324 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium, Extractable, SEM | 0.91 | | 0.1 | 0.498 | mg/Kg | 1.14 | | 0.17 | 0.847 | mg/Kg | 0.887 | | 0.097 | 0.485 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper, Extractable, SEM | 4.63 | | 0.13 | 0.666 | mg/Kg | 7.2 | | 0.23 | 1.13 | mg/Kg | 3.68 | | 0.13 | 0.647 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead, Extractable, SEM | 1.7 | <RDL | 0.67 | 3.33 | mg/Kg | 5.1 | <RDL | 1.1 | 5.65 | mg/Kg | 2.3 | <RDL | 0.65 | 3.24 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel, Extractable, SEM | 1.92 | | 0.17 | 0.831 | mg/Kg | 1.92 | | 0.28 | 1.42 | mg/Kg | 0.841 | | 0.16 | 0.809 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver, Extractable, SEM | | <MDL | 0.13 | 0.666 | mg/Kg | | <MDL | 0.23 | 1.13 | mg/Kg | | <MDL | 0.13 | 0.647 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc, Extractable, SEM | 12.2 | | 0.17 | 0.831 | mg/Kg | 34.7 | | 0.28 | 1.42 | mg/Kg | 17.3 | | 0.16 | 0.809 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0017 | 0.00498 | mg/Kg | | <MDL | 0.0028 | 0.00847 | mg/Kg | | <MDL | 0.0016 | 0.00485 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.53 | | 0.02 | 0.104 | mg/Kg | 4.63 | | 0.034 | 0.175 | mg/Kg | 2.41 | | 0.019 | 0.0992 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cadmium, Total, ICP-MS | 0.0758 | | 0.01 | 0.0518 | mg/Kg | 0.18 | | 0.018 | 0.0873 | mg/Kg | 0.0776 | | 0.0099 | 0.0496 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium, Total, ICP-MS | 19.9 | | 0.42 | 2.07 | mg/Kg | 16.2 | | 0.71 | 3.5 | mg/Kg | 9.81 | | 0.39 | 1.98 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper, Total, ICP-MS | 15.4 | | 0.84 | 4.15 | mg/Kg | 23.2 | | 1.4 | 6.98 | mg/Kg | 11.6 | | 0.79 | 3.97 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lead, Total, ICP-MS | 3.48 | | 0.02 | 0.104 | mg/Kg | 8.64 | | 0.034 | 0.175 | mg/Kg | 4.36 | | 0.019 | 0.0992 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel, Total, ICP-MS | 19.7 | | 0.2 | 1.04 | mg/Kg | 12.9 | | 0.34 | 1.75 | mg/Kg | 7.7 | | 0.19 | 0.992 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphorus, Total, ICP-MS | 370 | <RDL | 200 | 1040 | mg/Kg | 760 | <RDL | 340 | 1750 | mg/Kg | 370 | <RDL | 190 | 992 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver, Total, ICP-MS | 0.045 | <RDL | 0.01 | 0.0518 | mg/Kg | 0.0879 | | 0.018 | 0.0873 | mg/Kg | 0.041 | <RDL | 0.0099 | 0.0496 | mg/Kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|--------|------------------|-------|--------|-------|--------|-------------------|-------|--------|-------|--------|---------|--------|--------|-------|
| Locator: X322 | | BB322 | | | | | E322 | | | | | | | | |
| Descrip: NEWAUKUM CREEK NEA | | SE 392ND ST | | | | | NEWAUKUM CREEK AT | | | | | | | | |
| Sample: L48629-1 | | L48629-2 | | | | | L48629-3 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 11:10 | | 8/10/09 9:50 | | | | | 8/10/09 12:10 | | | | | | | | |
| TotalSolid: 59.8 | | 35.4 | | | | | 61.7 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Zinc, Total, ICP-MS | 42.3 | | 1 | 5.18 | mg/Kg | 81.1 | | 1.8 | 8.73 | mg/Kg | 45.7 | | 0.99 | 4.96 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.035 | <RDL | 0.008 | 0.0803 | mg/Kg | 0.031 | <RDL | 0.014 | 0.135 | mg/Kg | 0.018 | <RDL | 0.0079 | 0.0799 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | | | | | | |
| DecaBDE-209 | 0.147 | J | 0.055 | 0.112 | ug/Kg | 1.08 | J | 0.093 | 0.188 | ug/Kg | 0.259 | J | 0.053 | 0.108 | ug/Kg |
| HeptaBDE-183 | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.019 | 0.0376 | ug/Kg | | <MDL | 0.011 | 0.0216 | ug/Kg |
| HeptaBDE-190 | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.019 | 0.0376 | ug/Kg | | <MDL | 0.011 | 0.0216 | ug/Kg |
| HexaBDE-138 | 0.014 | <RDL,TA | 0.011 | 0.0222 | ug/Kg | 0.027 | <RDL,TA | 0.019 | 0.0376 | ug/Kg | 0.014 | <RDL,TA | 0.011 | 0.0216 | ug/Kg |
| HexaBDE-153 | 0.0624 | | 0.011 | 0.0222 | ug/Kg | 0.149 | | 0.019 | 0.0376 | ug/Kg | 0.0546 | | 0.011 | 0.0216 | ug/Kg |
| HexaBDE-154 | 0.0298 | | 0.011 | 0.0222 | ug/Kg | 0.041 | | 0.019 | 0.0376 | ug/Kg | 0.014 | <RDL | 0.011 | 0.0216 | ug/Kg |
| PentaBDE-100 | 0.014 | <RDL | 0.011 | 0.0222 | ug/Kg | 0.0387 | | 0.019 | 0.0376 | ug/Kg | 0.019 | <RDL | 0.011 | 0.0216 | ug/Kg |
| PentaBDE-85 | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.019 | 0.0376 | ug/Kg | | <MDL | 0.011 | 0.0216 | ug/Kg |
| PentaBDE-99 | 0.043 | B | 0.011 | 0.0222 | ug/Kg | 0.146 | B3 | 0.019 | 0.0376 | ug/Kg | 0.0783 | B3 | 0.011 | 0.0216 | ug/Kg |
| TetraBDE-47 | 0.0681 | B | 0.011 | 0.0222 | ug/Kg | 0.201 | B3 | 0.019 | 0.0376 | ug/Kg | 0.111 | B3 | 0.011 | 0.0216 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.019 | 0.0376 | ug/Kg | | <MDL | 0.011 | 0.0216 | ug/Kg |
| TetraBDE-71 | | <MDL,TA | 0.011 | 0.0222 | ug/Kg | | <MDL,TA | 0.019 | 0.0376 | ug/Kg | | <MDL,TA | 0.011 | 0.0216 | ug/Kg |
| TriBDE-17 | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.019 | 0.0376 | ug/Kg | | <MDL | 0.011 | 0.0216 | ug/Kg |
| TriBDE-28 | | <MDL,TA | 0.011 | 0.0222 | ug/Kg | | <MDL,TA | 0.019 | 0.0376 | ug/Kg | | <MDL,TA | 0.011 | 0.0216 | ug/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 1.9 | 3.76 | ug/Kg | | <MDL | 1.1 | 2.16 | ug/Kg |
| 4,4'-DDE | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 1.9 | 3.76 | ug/Kg | | <MDL | 1.1 | 2.16 | ug/Kg |
| 4,4'-DDT | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 1.9 | 3.76 | ug/Kg | | <MDL | 1.1 | 2.16 | ug/Kg |
| Aldrin | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 1.9 | 3.76 | ug/Kg | | <MDL | 1.1 | 2.16 | ug/Kg |
| Alpha-BHC | | <MDL | 0.55 | 1.12 | ug/Kg | | <MDL | 0.93 | 1.88 | ug/Kg | | <MDL | 0.53 | 1.08 | ug/Kg |
| Alpha-Chlordane | | <MDL | 0.55 | 1.12 | ug/Kg | | <MDL | 0.93 | 1.88 | ug/Kg | | <MDL | 0.53 | 1.08 | ug/Kg |
| Beta-BHC | | <MDL | 0.55 | 1.12 | ug/Kg | | <MDL | 0.93 | 1.88 | ug/Kg | | <MDL | 0.53 | 1.08 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|-------|------------------|-------|-------|-------|-------|-------------------|-------|------|-------|-------|-------|-----|-----|-------|
| Locator: X322 | | BB322 | | | | | E322 | | | | | | | | |
| Descrip: NEWAUKUM CREEK NEA | | SE 392ND ST | | | | | NEWAUKUM CREEK AT | | | | | | | | |
| Sample: L48629-1 | | L48629-2 | | | | | L48629-3 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 11:10 | | 8/10/09 9:50 | | | | | 8/10/09 12:10 | | | | | | | | |
| TotalSolid: 59.8 | | 35.4 | | | | | 61.7 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Delta-BHC | <MDL | 0.55 | 1.12 | ug/Kg | <MDL | 0.93 | 1.88 | ug/Kg | <MDL | 0.53 | 1.08 | ug/Kg | | | |
| Dieldrin | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 1.9 | 3.76 | ug/Kg | <MDL | 1.1 | 2.16 | ug/Kg | | | |
| Endosulfan I | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 1.9 | 3.76 | ug/Kg | <MDL | 1.1 | 2.16 | ug/Kg | | | |
| Endosulfan II | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 1.9 | 3.76 | ug/Kg | <MDL | 1.1 | 2.16 | ug/Kg | | | |
| Endosulfan Sulfate | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 1.9 | 3.76 | ug/Kg | <MDL | 1.1 | 2.16 | ug/Kg | | | |
| Endrin | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 1.9 | 3.76 | ug/Kg | <MDL | 1.1 | 2.16 | ug/Kg | | | |
| Endrin Aldehyde | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 1.9 | 3.76 | ug/Kg | <MDL | 1.1 | 2.16 | ug/Kg | | | |
| Gamma-BHC (Lindane) | <MDL | 0.55 | 1.12 | ug/Kg | <MDL | 0.93 | 1.88 | ug/Kg | <MDL | 0.53 | 1.08 | ug/Kg | | | |
| Gamma-Chlordane | <MDL | 0.55 | 1.12 | ug/Kg | <MDL | 0.93 | 1.88 | ug/Kg | <MDL | 0.53 | 1.08 | ug/Kg | | | |
| Heptachlor | <MDL | 0.55 | 1.12 | ug/Kg | <MDL | 0.93 | 1.88 | ug/Kg | <MDL | 0.53 | 1.08 | ug/Kg | | | |
| Heptachlor Epoxide | <MDL | 0.55 | 1.12 | ug/Kg | <MDL | 0.93 | 1.88 | ug/Kg | <MDL | 0.53 | 1.08 | ug/Kg | | | |
| Methoxychlor | <MDL | 5.5 | 11.2 | ug/Kg | <MDL | 9.3 | 18.8 | ug/Kg | <MDL | 5.3 | 10.8 | ug/Kg | | | |
| Toxaphene | <MDL | 11 | 22.2 | ug/Kg | <MDL | 19 | 37.6 | ug/Kg | <MDL | 11 | 21.6 | ug/Kg | | | |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | | | | |
| Aroclor 1016 | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 2.3 | 4.72 | ug/Kg | <MDL | 1.3 | 2.71 | ug/Kg | | | |
| Aroclor 1221 | <MDL | 2.8 | 5.57 | ug/Kg | <MDL | 4.8 | 9.41 | ug/Kg | <MDL | 2.8 | 5.4 | ug/Kg | | | |
| Aroclor 1232 | <MDL | 2.8 | 5.57 | ug/Kg | <MDL | 4.8 | 9.41 | ug/Kg | <MDL | 2.8 | 5.4 | ug/Kg | | | |
| Aroclor 1242 | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 2.3 | 4.72 | ug/Kg | <MDL | 1.3 | 2.71 | ug/Kg | | | |
| Aroclor 1248 | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 2.3 | 4.72 | ug/Kg | <MDL | 1.3 | 2.71 | ug/Kg | | | |
| Aroclor 1254 | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 2.3 | 4.72 | ug/Kg | <MDL | 1.3 | 2.71 | ug/Kg | | | |
| Aroclor 1260 | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 2.3 | 4.72 | ug/Kg | <MDL | 1.3 | 2.71 | ug/Kg | | | |
| Total Aroclors | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 2.3 | 4.72 | ug/Kg | <MDL | 1.3 | 2.71 | ug/Kg | | | |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | <MDL | 0.17 | 0.334 | ug/Kg | <MDL | 0.28 | 0.565 | ug/Kg | <MDL | 0.16 | 0.324 | ug/Kg | | | |
| 1,2-Dichlorobenzene | <MDL | 0.33 | 0.669 | ug/Kg | <MDL | 0.56 | 1.13 | ug/Kg | <MDL | 0.32 | 0.648 | ug/Kg | | | |
| 1,2-Diphenylhydrazine | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|------|-------|-------|
| Locator: X322 | | BB322 | | | | | E322 | | | | | | | | |
| Descrip: NEWAUKUM CREEK NEA | | SE 392ND ST | | | | | NEWAUKUM CREEK AT | | | | | | | | |
| Sample: L48629-1 | | L48629-2 | | | | | L48629-3 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 11:10 | | 8/10/09 9:50 | | | | | 8/10/09 12:10 | | | | | | | | |
| TotalSolid: 59.8 | | 35.4 | | | | | 61.7 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| 1,3-Dichlorobenzene | <MDL | 0.33 | 0.669 | ug/Kg | <MDL | 0.56 | 1.13 | ug/Kg | <MDL | 0.32 | 0.648 | ug/Kg | | | |
| 1,4-Dichlorobenzene | <MDL | 0.33 | 0.669 | ug/Kg | <MDL | 0.56 | 1.13 | ug/Kg | <MDL | 0.32 | 0.648 | ug/Kg | | | |
| 2,4,5-Trichlorophenol | <MDL | 17 | 33.4 | ug/Kg | <MDL | 28 | 56.5 | ug/Kg | <MDL | 16 | 32.4 | ug/Kg | | | |
| 2,4,6-Trichlorophenol | <MDL | 17 | 33.4 | ug/Kg | <MDL | 28 | 56.5 | ug/Kg | <MDL | 16 | 32.4 | ug/Kg | | | |
| 2,4-Dichlorophenol | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| 2,4-Dimethylphenol | <MDL | 1.7 | 3.34 | ug/Kg | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | | | |
| 2,4-Dinitrotoluene | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| 2,6-Dinitrotoluene | <MDL | 17 | 33.4 | ug/Kg | <MDL | 28 | 56.5 | ug/Kg | <MDL | 16 | 32.4 | ug/Kg | | | |
| 2-Chloronaphthalene | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| 2-Chlorophenol | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| 2-Methylnaphthalene | <MDL | 3.3 | 6.69 | ug/Kg | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 3.2 | 6.48 | ug/Kg | | | |
| 2-Methylphenol | <MDL | 3.3 | 6.69 | ug/Kg | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 3.2 | 6.48 | ug/Kg | | | |
| 2-Nitrophenol | <MDL | 17 | 33.4 | ug/Kg | <MDL | 28 | 56.5 | ug/Kg | <MDL | 16 | 32.4 | ug/Kg | | | |
| 4-Bromophenyl Phenyl Ether | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| 4-Chlorophenyl Phenyl Ether | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| 4-Methylphenol | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 11 | 22.6 | ug/Kg | <MDL | 6.5 | 13 | ug/Kg | | | |
| Acenaphthene | <MDL | 3.3 | 6.69 | ug/Kg | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 3.2 | 6.48 | ug/Kg | | | |
| Acenaphthylene | <MDL | 3.3 | 6.69 | ug/Kg | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 3.2 | 6.48 | ug/Kg | | | |
| Aniline | <MDL | 67 | 134 | ug/Kg | <MDL | 110 | 226 | ug/Kg | <MDL | 65 | 130 | ug/Kg | | | |
| Anthracene | <MDL | 3.3 | 6.69 | ug/Kg | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 3.2 | 6.48 | ug/Kg | | | |
| Benzo(a)anthracene | <MDL | 3.3 | 6.69 | ug/Kg | 7.9 | <RDL | 5.6 | 11.3 | ug/Kg | 3.7 | <RDL | 3.2 | 6.48 | ug/Kg | |
| Benzo(a)pyrene | <MDL | 3.3 | 6.69 | ug/Kg | 9 | <RDL | 5.6 | 11.3 | ug/Kg | 4.9 | <RDL | 3.2 | 6.48 | ug/Kg | |
| Benzo(b)fluoranthene | <MDL | 3.3 | 6.69 | ug/Kg | 12.7 | | 5.6 | 11.3 | ug/Kg | 6.6 | | 3.2 | 6.48 | ug/Kg | |
| Benzo(g,h,i)perylene | <MDL | 3.3 | 6.69 | ug/Kg | 7.1 | <RDL | 5.6 | 11.3 | ug/Kg | 3.7 | <RDL | 3.2 | 6.48 | ug/Kg | |
| Benzo(k)fluoranthene | <MDL | 3.3 | 6.69 | ug/Kg | 10 | <RDL | 5.6 | 11.3 | ug/Kg | 6.2 | <RDL | 3.2 | 6.48 | ug/Kg | |
| Benzoic Acid | 174 | | 17 | 33.4 | ug/Kg | 387 | | 28 | 56.5 | ug/Kg | 175 | | 16 | 32.4 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|------------------|------|-------|-------|-------|-------------------|------|-------|-------|-------|--------|------|-------|-------|
| Locator: X322 | | BB322 | | | | | E322 | | | | | | | | |
| Descrip: NEWAUKUM CREEK NEA | | SE 392ND ST | | | | | NEWAUKUM CREEK AT | | | | | | | | |
| Sample: L48629-1 | | L48629-2 | | | | | L48629-3 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 11:10 | | 8/10/09 9:50 | | | | | 8/10/09 12:10 | | | | | | | | |
| TotalSolid: 59.8 | | 35.4 | | | | | 61.7 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Benzyl Alcohol | | <MDL | 3.3 | 6.69 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |
| Benzyl Butyl Phthalate | | <MDL | 6.7 | 13.4 | ug/Kg | 116 | | 11 | 22.6 | ug/Kg | 61.9 | | 6.5 | 13 | ug/Kg |
| Bis(2-Chloroethoxy)Methane | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 11 | 22.6 | ug/Kg | | <MDL | 6.5 | 13 | ug/Kg |
| Bis(2-Chloroethyl)Ether | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 11 | 22.6 | ug/Kg | | <MDL | 6.5 | 13 | ug/Kg |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 11 | 22.6 | ug/Kg | | <MDL | 6.5 | 13 | ug/Kg |
| Bis(2-ethylhexyl)adipate | 17 | <RDL | 17 | 33.4 | ug/Kg | 34 | <RDL | 28 | 56.5 | ug/Kg | 18 | <RDL | 16 | 32.4 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 51.7 | B | 6.7 | 13.4 | ug/Kg | 101 | B | 11 | 22.6 | ug/Kg | 63.5 | B | 6.5 | 13 | ug/Kg |
| Bisphenol A | | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 28 | 56.5 | ug/Kg | | <MDL | 16 | 32.4 | ug/Kg |
| Caffeine | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 11 | 22.6 | ug/Kg | | <MDL | 6.5 | 13 | ug/Kg |
| Carbazole | | <MDL | 3.3 | 6.69 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |
| Chrysene | | <MDL | 3.3 | 6.69 | ug/Kg | 9.6 | <RDL | 5.6 | 11.3 | ug/Kg | 5.2 | <RDL | 3.2 | 6.48 | ug/Kg |
| Coprostanol | | <MDL | 67 | 134 | ug/Kg | | <MDL | 110 | 226 | ug/Kg | | <MDL | 65 | 130 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 3.3 | 6.69 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |
| Dibenzofuran | | <MDL | 3.3 | 6.69 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |
| Diethyl Phthalate | 7 | <RDL | 6.7 | 13.4 | ug/Kg | 12 | <RDL | 11 | 22.6 | ug/Kg | 6.6 | <RDL | 6.5 | 13 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 11 | 22.6 | ug/Kg | | <MDL | 6.5 | 13 | ug/Kg |
| Di-N-Butyl Phthalate | 9.9 | <RDL,B | 6.7 | 13.4 | ug/Kg | 18 | <RDL,B | 11 | 22.6 | ug/Kg | 8.6 | <RDL,B | 6.5 | 13 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 11 | 22.6 | ug/Kg | | <MDL | 6.5 | 13 | ug/Kg |
| Fluoranthene | | <MDL | 3.3 | 6.69 | ug/Kg | 12.5 | | 5.6 | 11.3 | ug/Kg | 7.73 | | 3.2 | 6.48 | ug/Kg |
| Fluorene | | <MDL | 3.3 | 6.69 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |
| Hexachlorobenzene | | <MDL | 0.17 | 0.334 | ug/Kg | | <MDL | 0.28 | 0.565 | ug/Kg | | <MDL | 0.16 | 0.324 | ug/Kg |
| Hexachlorobutadiene | | <MDL | 0.84 | 1.67 | ug/Kg | | <MDL | 1.4 | 2.82 | ug/Kg | | <MDL | 0.81 | 1.62 | ug/Kg |
| Hexachloroethane | | <MDL | 1.7 | 3.34 | ug/Kg | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 3.3 | 6.69 | ug/Kg | 7.6 | <RDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |
| Isophorone | | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 28 | 56.5 | ug/Kg | | <MDL | 16 | 32.4 | ug/Kg |
| Naphthalene | | <MDL | 3.3 | 6.69 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 3.2 | 6.48 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|------------------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|------|-------|-------|-------|
| Locator: X322 | | BB322 | | | | | E322 | | | | | | | | |
| Descrip: NEWAUKUM CREEK NEA | | SE 392ND ST | | | | | NEWAUKUM CREEK AT | | | | | | | | |
| Sample: L48629-1 | | L48629-2 | | | | | L48629-3 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 11:10 | | 8/10/09 9:50 | | | | | 8/10/09 12:10 | | | | | | | | |
| TotalSolid: 59.8 | | 35.4 | | | | | 61.7 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Nitrobenzene | <MDL | | 6.7 | 13.4 | ug/Kg | <MDL | | 11 | 22.6 | ug/Kg | <MDL | | 6.5 | 13 | ug/Kg |
| N-Nitrosodimethylamine | <MDL | | 6.7 | 13.4 | ug/Kg | <MDL | | 11 | 22.6 | ug/Kg | <MDL | | 6.5 | 13 | ug/Kg |
| N-Nitrosodi-N-Propylamine | <MDL | | 6.7 | 13.4 | ug/Kg | <MDL | | 11 | 22.6 | ug/Kg | <MDL | | 6.5 | 13 | ug/Kg |
| N-Nitrosodiphenylamine | <MDL | | 6.7 | 13.4 | ug/Kg | <MDL | | 11 | 22.6 | ug/Kg | <MDL | | 6.5 | 13 | ug/Kg |
| Pentachlorophenol | <MDL | | 17 | 33.4 | ug/Kg | <MDL | | 28 | 56.5 | ug/Kg | <MDL | | 16 | 32.4 | ug/Kg |
| Phenanthrene | <MDL | | 3.3 | 6.69 | ug/Kg | 5.9 | <RDL | 5.6 | 11.3 | ug/Kg | 4.7 | <RDL | 3.2 | 6.48 | ug/Kg |
| Phenol | <MDL | | 6.7 | 13.4 | ug/Kg | <MDL | | 11 | 22.6 | ug/Kg | <MDL | | 6.5 | 13 | ug/Kg |
| Pyrene | <MDL | | 3.3 | 6.69 | ug/Kg | 14.9 | | 5.6 | 11.3 | ug/Kg | 8.15 | | 3.2 | 6.48 | ug/Kg |
| Total 4-Nonylphenol | <MDL | | 33 | 66.9 | ug/Kg | <MDL | | 56 | 113 | ug/Kg | <MDL | | 32 | 64.8 | ug/Kg |
| OR TERNS (2002) | | | | | | | | | | | | | | | |
| Estradiol | <MDL | | 0.084 | 0.843 | ug/Kg | <MDL | | 0.14 | 1.42 | ug/Kg | <MDL | | 0.081 | 0.817 | ug/Kg |
| Estrone | <MDL | | 0.05 | 0.505 | ug/Kg | 0.1 | <RDL | 0.085 | 0.853 | ug/Kg | 0.12 | <RDL | 0.049 | 0.489 | ug/Kg |
| Ethynyl estradiol | <MDL | | 0.084 | 0.843 | ug/Kg | <MDL | | 0.14 | 1.42 | ug/Kg | <MDL | | 0.081 | 0.817 | ug/Kg |
| OR WDOE NWTPH-DX | | | | | | | | | | | | | | | |
| Diesel Range (>C12-C24) | <MDL | | 42 | 42 | mg/Kg | | | | | | | | | | |
| Lube Oil Range (>C24) | <MDL | | 42 | 42 | mg/Kg | 100 | | 71 | 71 | mg/Kg | 50 | | 41 | 41 | mg/Kg |

* Not converted to dry weight basis

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| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | |
|--|-------|------|-------|------|-----------|--|------|-------|------|-------|-------|--|-------|------|-------|--|--|
| Project: 421240C | | | | | | Project: 421240C | | | | | | Project: 421240C | | | | | |
| Locator: F322 | | | | | | Locator: FF322 | | | | | | Locator: AD322 | | | | | |
| Descrip: NEWAUKUM SAMPLE OF | | | | | | Descrip: NEWAUKUM-424TH SE | | | | | | Descrip: US NEWAUKUM CR. @ | | | | | |
| Sample: L48629-4 | | | | | | Sample: L48629-5 | | | | | | Sample: L48629-6 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | |
| ColDate: 8/10/09 12:40 | | | | | | ColDate: 8/10/09 13:00 | | | | | | ColDate: 8/10/09 13:22 | | | | | |
| TotalSolid: 30.2 | | | | | | TotalSolid: 59.9 | | | | | | TotalSolid: 27.5 | | | | | |
| DRY Weight Basis | | | | | | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | CV ASTM D422 | | | | | | CV ASTM D422 | | | | | |
| Clay* | 7.3 | J | 1.8 | 3.65 | % | <MDL | JG | 1.3 | 2.54 | % | <MDL | JG | 1.7 | 3.46 | % | | |
| Fines* | 40.1 | J | 1.8 | 3.65 | % | 7.6 | JG | 1.3 | 2.54 | % | 31.1 | JG | 1.7 | 3.46 | % | | |
| Gravel* | 31.7 | J | 0.36 | 3.65 | % | 22.9 | JG | 0.25 | 2.54 | % | 12.1 | JG | 0.35 | 3.46 | % | | |
| p+0.00* | 11.5 | J | 0.36 | 3.65 | % | 9.1 | JG | 0.25 | 2.54 | % | 6.2 | JG | 0.35 | 3.46 | % | | |
| p+1.00* | 22.7 | J | 0.36 | 3.65 | % | 35 | JG | 0.25 | 2.54 | % | 7.3 | JG | 0.35 | 3.46 | % | | |
| p+10.0(equal/more than)* | 7.3 | J | 1.8 | 3.65 | % | <MDL | JG | 1.3 | 2.54 | % | <MDL | JG | 1.7 | 3.46 | % | | |
| p+2.00* | 18.2 | J | 0.36 | 3.65 | % | 26.3 | JG | 0.25 | 2.54 | % | 13.3 | JG | 0.35 | 3.46 | % | | |
| p+3.00* | 7.5 | J | 0.36 | 3.65 | % | 4.3 | JG | 0.25 | 2.54 | % | 16.6 | JG | 0.35 | 3.46 | % | | |
| p+4.00* | 8.3 | J | 0.36 | 3.65 | % | 2.6 | JG | 0.25 | 2.54 | % | 8.1 | JG | 0.35 | 3.46 | % | | |
| p+5.00* | 25.5 | J | 1.8 | 3.65 | % | 5.1 | JG | 1.3 | 2.54 | % | 22.5 | JG | 1.7 | 3.46 | % | | |
| p+6.00* | 3.6 | J | 1.8 | 3.65 | % | <MDL | JG | 1.3 | 2.54 | % | 1.7 | JG | 1.7 | 3.46 | % | | |
| p+7.00* | 3.6 | J | 1.8 | 3.65 | % | 2.5 | JG | 1.3 | 2.54 | % | 6.9 | JG | 1.7 | 3.46 | % | | |
| p+8.00* | <MDL | J | 1.8 | 3.65 | % | <MDL | JG | 1.3 | 2.54 | % | <MDL | JG | 1.7 | 3.46 | % | | |
| p+9.00* | <MDL | J | 1.8 | 3.65 | % | <MDL | JG | 1.3 | 2.54 | % | <MDL | JG | 1.7 | 3.46 | % | | |
| p-1.00* | 8.8 | J | 0.36 | 3.65 | % | 8.1 | JG | 0.25 | 2.54 | % | 4.5 | JG | 0.35 | 3.46 | % | | |
| p-2.00(less than)* | 20 | J | 0.36 | 3.65 | % | 11.3 | JG | 0.25 | 2.54 | % | 5.8 | JG | 0.35 | 3.46 | % | | |
| p-2.00* | 2.9 | J | 0.36 | 3.65 | % | 3.5 | JG | 0.25 | 2.54 | % | 1.8 | JG | 0.35 | 3.46 | % | | |
| Sand* | 68.3 | J | 0.36 | 3.65 | % | 77.3 | JG | 0.25 | 2.54 | % | 51.6 | JG | 0.35 | 3.46 | % | | |
| Silt* | 32.8 | J | 1.8 | 3.65 | % | 7.6 | JG | 1.3 | 2.54 | % | 31.1 | JG | 1.7 | 3.46 | % | | |
| CV EPA DEC 1991 | | | | | | CV EPA DEC 1991 | | | | | | CV EPA DEC 1991 | | | | | |
| Sulfide, Acid Volatile | 0.86 | <RDL | JG | 0.83 | 3.3 mg/Kg | 16.6 | JG | 0.42 | 1.66 | mg/Kg | <MDL | JG | 0.91 | 3.64 | mg/Kg | | |
| CV KEROUEL & AMINOT 1997(KCL) | | | | | | CV KEROUEL & AMINOT 1997(KCL) | | | | | | CV KEROUEL & AMINOT 1997(KCL) | | | | | |
| Ammonia Nitrogen | 53.6 | | 0.83 | 1.65 | mg/Kg | 21.2 | | 0.83 | 1.66 | mg/Kg | 24.8 | | 0.91 | 1.79 | mg/Kg | | |
| CV SM2540-G | | | | | | CV SM2540-G | | | | | | CV SM2540-G | | | | | |
| Total Solids* | 30.2 | | 0.005 | 0.01 | % | 59.9 | | 0.005 | 0.01 | % | 27.5 | | 0.005 | 0.01 | % | | |

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| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
|---|-------|------|--------|---------|-------|--------|------|--------|---------|-------|--------|------|--------|--------|-------|
| Project: 421240C Locator: F322 Descrip: NEWAUKUM SAMPLE OF Sample: L48629-4 Matrix: SE FRSHWTRSED ColDate: 8/10/09 12:40 TotalSolid: 30.2 DRY Weight Basis | | | | | | | | | | | | | | | |
| Project: 421240C Locator: FF322 Descrip: NEWAUKUM-424TH SE Sample: L48629-5 Matrix: SE FRSHWTRSED ColDate: 8/10/09 13:00 TotalSolid: 59.9 DRY Weight Basis | | | | | | | | | | | | | | | |
| Project: 421240C Locator: AD322 Descrip: US NEWAUKUM CR. @ Sample: L48629-6 Matrix: SE FRSHWTRSED ColDate: 8/10/09 13:22 TotalSolid: 27.5 DRY Weight Basis | | | | | | | | | | | | | | | |
| CV SM4500-P-F OL | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 53.6 | | 3.2 | 8.08 | mg/Kg | 23.4 | | 1.6 | 4.04 | mg/Kg | 65.1 | | 3.6 | 9.05 | mg/Kg |
| CV SW846 9045C | | | | | | | | | | | | | | | |
| pH* | 7.05 | | | | pH | 7.06 | | | | pH | 7 | | | | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | | |
| Total Organic Carbon | 41700 | | 6000 | 11700 | mg/Kg | 10400 | | 2300 | 4510 | mg/Kg | 54900 | | 5100 | 10400 | mg/Kg |
| MT EPA 200.7 | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | | <MDL | 1.7 | 8.28 | mg/Kg | | <MDL | 0.83 | 4.14 | mg/Kg | 2.4 | <RDL | 1.8 | 9.13 | mg/Kg |
| Cadmium, Extractable, SEM | 0.16 | <RDL | 0.13 | 0.662 | mg/Kg | 0.12 | <RDL | 0.067 | 0.331 | mg/Kg | 0.24 | <RDL | 0.15 | 0.727 | mg/Kg |
| Chromium, Extractable, SEM | 1.43 | | 0.2 | 0.993 | mg/Kg | 0.726 | | 0.1 | 0.497 | mg/Kg | 1.72 | | 0.22 | 1.09 | mg/Kg |
| Copper, Extractable, SEM | 5.1 | | 0.26 | 1.32 | mg/Kg | 4.27 | | 0.13 | 0.663 | mg/Kg | 12.4 | | 0.29 | 1.46 | mg/Kg |
| Lead, Extractable, SEM | 5 | <RDL | 1.3 | 6.62 | mg/Kg | 3.47 | | 0.67 | 3.31 | mg/Kg | 9.6 | | 1.5 | 7.27 | mg/Kg |
| Nickel, Extractable, SEM | 1.5 | <RDL | 0.33 | 1.65 | mg/Kg | 0.985 | | 0.17 | 0.828 | mg/Kg | 2.45 | | 0.36 | 1.82 | mg/Kg |
| Silver, Extractable, SEM | | <MDL | 0.26 | 1.32 | mg/Kg | | <MDL | 0.13 | 0.663 | mg/Kg | | <MDL | 0.29 | 1.46 | mg/Kg |
| Zinc, Extractable, SEM | 41.4 | | 0.33 | 1.65 | mg/Kg | 21 | | 0.17 | 0.828 | mg/Kg | 48.4 | | 0.36 | 1.82 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0033 | 0.00993 | mg/Kg | | <MDL | 0.0017 | 0.00497 | mg/Kg | 0.0036 | <RDL | 0.0036 | 0.0109 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 4.93 | | 0.043 | 0.21 | mg/Kg | 3.14 | | 0.02 | 0.103 | mg/Kg | 5.78 | | 0.044 | 0.222 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.189 | | 0.021 | 0.105 | mg/Kg | 0.0835 | | 0.01 | 0.0516 | mg/Kg | 0.197 | | 0.022 | 0.111 | mg/Kg |
| Chromium, Total, ICP-MS | 20.7 | | 0.83 | 4.21 | mg/Kg | 9.57 | | 0.42 | 2.07 | mg/Kg | 29.4 | | 0.87 | 4.44 | mg/Kg |
| Copper, Total, ICP-MS | 20.2 | | 1.7 | 8.38 | mg/Kg | 12.4 | | 0.82 | 4.12 | mg/Kg | 32.8 | | 1.8 | 8.87 | mg/Kg |
| Lead, Total, ICP-MS | 9.74 | | 0.043 | 0.21 | mg/Kg | 5.34 | | 0.02 | 0.103 | mg/Kg | 17.8 | | 0.044 | 0.222 | mg/Kg |
| Nickel, Total, ICP-MS | 12.4 | | 0.43 | 2.1 | mg/Kg | 5.88 | | 0.2 | 1.03 | mg/Kg | 25.8 | | 0.44 | 2.22 | mg/Kg |
| Phosphorus, Total, ICP-MS | 790 | <RDL | 430 | 2100 | mg/Kg | 380 | <RDL | 200 | 1030 | mg/Kg | 980 | <RDL | 440 | 2220 | mg/Kg |
| Silver, Total, ICP-MS | 0.089 | <RDL | 0.021 | 0.105 | mg/Kg | 0.038 | <RDL | 0.01 | 0.0516 | mg/Kg | 0.11 | <RDL | 0.022 | 0.111 | mg/Kg |

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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|--------|-------------------|-------|-------|-------|--------|-------------------|--------|--------|-------|--------|---------|-------|--------|-------|
| Locator: F322 | | FF322 | | | | | AD322 | | | | | | | | |
| Descrip: NEWAUKUM SAMPLE OF | | NEWAUKUM-424TH SE | | | | | US NEWAUKUM CR. @ | | | | | | | | |
| Sample: L48629-4 | | L48629-5 | | | | | L48629-6 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 12:40 | | 8/10/09 13:00 | | | | | 8/10/09 13:22 | | | | | | | | |
| TotalSolid: 30.2 | | 59.9 | | | | | 27.5 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Zinc, Total, ICP-MS | 101 | | 2.1 | 10.5 | mg/Kg | 53.1 | | 1 | 5.16 | mg/Kg | 120 | | 2.2 | 11.1 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.031 | <RDL | 0.016 | 0.162 | mg/Kg | 0.018 | <RDL | 0.0082 | 0.082 | mg/Kg | 0.047 | <RDL | 0.018 | 0.179 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | | | | | | |
| DecaBDE-209 | 0.599 | J | 0.11 | 0.221 | ug/Kg | 0.536 | J | 0.055 | 0.111 | ug/Kg | 1.24 | J | 0.12 | 0.243 | ug/Kg |
| HeptaBDE-183 | | <MDL | 0.022 | 0.044 | ug/Kg | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.024 | 0.0484 | ug/Kg |
| HeptaBDE-190 | | <MDL | 0.022 | 0.044 | ug/Kg | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.024 | 0.0484 | ug/Kg |
| HexaBDE-138 | 0.0467 | TA | 0.022 | 0.044 | ug/Kg | 0.0384 | TA | 0.011 | 0.0222 | ug/Kg | | <MDL,TA | 0.024 | 0.0484 | ug/Kg |
| HexaBDE-153 | 0.176 | | 0.022 | 0.044 | ug/Kg | 0.109 | | 0.011 | 0.0222 | ug/Kg | 0.212 | | 0.024 | 0.0484 | ug/Kg |
| HexaBDE-154 | 0.043 | <RDL | 0.022 | 0.044 | ug/Kg | 0.0225 | | 0.011 | 0.0222 | ug/Kg | 0.106 | | 0.024 | 0.0484 | ug/Kg |
| PentaBDE-100 | 0.0493 | | 0.022 | 0.044 | ug/Kg | 0.0235 | | 0.011 | 0.0222 | ug/Kg | 0.203 | | 0.024 | 0.0484 | ug/Kg |
| PentaBDE-85 | | <MDL | 0.022 | 0.044 | ug/Kg | | <MDL | 0.011 | 0.0222 | ug/Kg | 0.0731 | | 0.024 | 0.0484 | ug/Kg |
| PentaBDE-99 | 0.239 | | 0.022 | 0.044 | ug/Kg | 0.101 | B3 | 0.011 | 0.0222 | ug/Kg | 1.11 | | 0.024 | 0.0484 | ug/Kg |
| TetraBDE-47 | 0.265 | B3 | 0.022 | 0.044 | ug/Kg | 0.128 | B3 | 0.011 | 0.0222 | ug/Kg | 0.902 | | 0.024 | 0.0484 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.022 | 0.044 | ug/Kg | 0.0865 | | 0.011 | 0.0222 | ug/Kg | 0.214 | | 0.024 | 0.0484 | ug/Kg |
| TetraBDE-71 | 0.032 | <RDL,TA | 0.022 | 0.044 | ug/Kg | | <MDL,TA | 0.011 | 0.0222 | ug/Kg | 0.112 | TA | 0.024 | 0.0484 | ug/Kg |
| TriBDE-17 | | <MDL | 0.022 | 0.044 | ug/Kg | | <MDL | 0.011 | 0.0222 | ug/Kg | | <MDL | 0.024 | 0.0484 | ug/Kg |
| TriBDE-28 | | <MDL,TA | 0.022 | 0.044 | ug/Kg | | <MDL,TA | 0.011 | 0.0222 | ug/Kg | | <MDL,TA | 0.024 | 0.0484 | ug/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 2.2 | 4.4 | ug/Kg | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 2.4 | 4.84 | ug/Kg |
| 4,4'-DDE | | <MDL | 2.2 | 4.4 | ug/Kg | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 2.4 | 4.84 | ug/Kg |
| 4,4'-DDT | | <MDL | 2.2 | 4.4 | ug/Kg | | <MDL | 1.1 | 2.22 | ug/Kg | 4.7 | <RDL | 2.4 | 4.84 | ug/Kg |
| Aldrin | | <MDL | 2.2 | 4.4 | ug/Kg | | <MDL | 1.1 | 2.22 | ug/Kg | | <MDL | 2.4 | 4.84 | ug/Kg |
| Alpha-BHC | | <MDL | 1.1 | 2.21 | ug/Kg | | <MDL | 0.55 | 1.11 | ug/Kg | | <MDL | 1.2 | 2.43 | ug/Kg |
| Alpha-Chlordane | | <MDL | 1.1 | 2.21 | ug/Kg | | <MDL | 0.55 | 1.11 | ug/Kg | | <MDL | 1.2 | 2.43 | ug/Kg |
| Beta-BHC | | <MDL | 1.1 | 2.21 | ug/Kg | | <MDL | 0.55 | 1.11 | ug/Kg | | <MDL | 1.2 | 2.43 | ug/Kg |

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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|-------|-------------------|-------|-------|-------|-------|-------------------|-------|------|-------|-------|-------|-----|-----|-------|
| Locator: F322 | | FF322 | | | | | AD322 | | | | | | | | |
| Descrip: NEWAUKUM SAMPLE OF | | NEWAUKUM-424TH SE | | | | | US NEWAUKUM CR. @ | | | | | | | | |
| Sample: L48629-4 | | L48629-5 | | | | | L48629-6 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 12:40 | | 8/10/09 13:00 | | | | | 8/10/09 13:22 | | | | | | | | |
| TotalSolid: 30.2 | | 59.9 | | | | | 27.5 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Delta-BHC | <MDL | 1.1 | 2.21 | ug/Kg | <MDL | 0.55 | 1.11 | ug/Kg | <MDL | 1.2 | 2.43 | ug/Kg | | | |
| Dieldrin | <MDL | 2.2 | 4.4 | ug/Kg | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 2.4 | 4.84 | ug/Kg | | | |
| Endosulfan I | <MDL | 2.2 | 4.4 | ug/Kg | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 2.4 | 4.84 | ug/Kg | | | |
| Endosulfan II | <MDL | 2.2 | 4.4 | ug/Kg | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 2.4 | 4.84 | ug/Kg | | | |
| Endosulfan Sulfate | <MDL | 2.2 | 4.4 | ug/Kg | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 2.4 | 4.84 | ug/Kg | | | |
| Endrin | <MDL | 2.2 | 4.4 | ug/Kg | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 2.4 | 4.84 | ug/Kg | | | |
| Endrin Aldehyde | <MDL | 2.2 | 4.4 | ug/Kg | <MDL | 1.1 | 2.22 | ug/Kg | <MDL | 2.4 | 4.84 | ug/Kg | | | |
| Gamma-BHC (Lindane) | <MDL | 1.1 | 2.21 | ug/Kg | <MDL | 0.55 | 1.11 | ug/Kg | <MDL | 1.2 | 2.43 | ug/Kg | | | |
| Gamma-Chlordane | <MDL | 1.1 | 2.21 | ug/Kg | <MDL | 0.55 | 1.11 | ug/Kg | <MDL | 1.2 | 2.43 | ug/Kg | | | |
| Heptachlor | <MDL | 1.1 | 2.21 | ug/Kg | <MDL | 0.55 | 1.11 | ug/Kg | <MDL | 1.2 | 2.43 | ug/Kg | | | |
| Heptachlor Epoxide | <MDL | 1.1 | 2.21 | ug/Kg | <MDL | 0.55 | 1.11 | ug/Kg | <MDL | 1.2 | 2.43 | ug/Kg | | | |
| Methoxychlor | <MDL | 11 | 22.1 | ug/Kg | <MDL | 5.5 | 11.1 | ug/Kg | <MDL | 12 | 24.3 | ug/Kg | | | |
| Toxaphene | <MDL | 22 | 44 | ug/Kg | <MDL | 11 | 22.2 | ug/Kg | <MDL | 24 | 48.4 | ug/Kg | | | |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | | | | |
| Aroclor 1016 | <MDL | 2.7 | 5.53 | ug/Kg | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 3 | 6.07 | ug/Kg | | | |
| Aroclor 1221 | <MDL | 5.6 | 11 | ug/Kg | <MDL | 2.8 | 5.56 | ug/Kg | <MDL | 6.2 | 12.1 | ug/Kg | | | |
| Aroclor 1232 | <MDL | 5.6 | 11 | ug/Kg | <MDL | 2.8 | 5.56 | ug/Kg | <MDL | 6.2 | 12.1 | ug/Kg | | | |
| Aroclor 1242 | <MDL | 2.7 | 5.53 | ug/Kg | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 3 | 6.07 | ug/Kg | | | |
| Aroclor 1248 | <MDL | 2.7 | 5.53 | ug/Kg | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 3 | 6.07 | ug/Kg | | | |
| Aroclor 1254 | <MDL | 2.7 | 5.53 | ug/Kg | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 3 | 6.07 | ug/Kg | | | |
| Aroclor 1260 | <MDL | 2.7 | 5.53 | ug/Kg | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 3 | 6.07 | ug/Kg | | | |
| Total Aroclors | <MDL | 2.7 | 5.53 | ug/Kg | <MDL | 1.4 | 2.79 | ug/Kg | <MDL | 3 | 6.07 | ug/Kg | | | |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | <MDL | 0.33 | 0.662 | ug/Kg | <MDL | 0.17 | 0.334 | ug/Kg | <MDL | 0.36 | 0.727 | ug/Kg | | | |
| 1,2-Dichlorobenzene | <MDL | 0.66 | 1.32 | ug/Kg | <MDL | 0.33 | 0.668 | ug/Kg | <MDL | 0.73 | 1.45 | ug/Kg | | | |
| 1,2-Diphenylhydrazine | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | <MDL | 15 | 29.1 | ug/Kg | | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: | | 421240C | | | | | Project: | | 421240C | | | | | Project: | | 421240C | | | | |
|-----------------------------|-------|--------------------|------|------|-------|-------|-------------|-------|-------------------|-------|-------|------|------|-------------|-------|-------------------|--|--|--|--|
| Locator: | | F322 | | | | | Locator: | | FF322 | | | | | Locator: | | AD322 | | | | |
| Descrip: | | NEWAUKUM SAMPLE OF | | | | | Descrip: | | NEWAUKUM-424TH SE | | | | | Descrip: | | US NEWAUKUM CR. @ | | | | |
| Sample: | | L48629-4 | | | | | Sample: | | L48629-5 | | | | | Sample: | | L48629-6 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 8/10/09 12:40 | | | | | ColDate: | | 8/10/09 13:00 | | | | | ColDate: | | 8/10/09 13:22 | | | | |
| TotalSolid: | | 30.2 | | | | | TotalSolid: | | 59.9 | | | | | TotalSolid: | | 27.5 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | | | | |
| 1,3-Dichlorobenzene | | <MDL | 0.66 | 1.32 | ug/Kg | <MDL | 0.33 | 0.668 | ug/Kg | | <MDL | 0.73 | 1.45 | ug/Kg | | | | | | |
| 1,4-Dichlorobenzene | | <MDL | 0.66 | 1.32 | ug/Kg | <MDL | 0.33 | 0.668 | ug/Kg | | <MDL | 0.73 | 1.45 | ug/Kg | | | | | | |
| 2,4,5-Trichlorophenol | | <MDL | 33 | 66.2 | ug/Kg | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 36 | 72.7 | ug/Kg | | | | | | |
| 2,4,6-Trichlorophenol | | <MDL | 33 | 66.2 | ug/Kg | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 36 | 72.7 | ug/Kg | | | | | | |
| 2,4-Dichlorophenol | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| 2,4-Dimethylphenol | | <MDL | 3.3 | 6.62 | ug/Kg | <MDL | 1.7 | 3.34 | ug/Kg | | <MDL | 3.6 | 7.27 | ug/Kg | | | | | | |
| 2,4-Dinitrotoluene | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| 2,6-Dinitrotoluene | | <MDL | 33 | 66.2 | ug/Kg | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 36 | 72.7 | ug/Kg | | | | | | |
| 2-Chloronaphthalene | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| 2-Chlorophenol | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| 2-Methylnaphthalene | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | | | | | | |
| 2-Methylphenol | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | | | | | | |
| 2-Nitrophenol | | <MDL | 33 | 66.2 | ug/Kg | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 36 | 72.7 | ug/Kg | | | | | | |
| 4-Bromophenyl Phenyl Ether | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| 4-Methylphenol | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | | | | | | |
| Acenaphthene | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | | | | | | |
| Acenaphthylene | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | | | | | | |
| Aniline | | <MDL | 130 | 265 | ug/Kg | <MDL | 67 | 134 | ug/Kg | | <MDL | 150 | 291 | ug/Kg | | | | | | |
| Anthracene | 11 | <RDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | 17 | | 7.3 | 14.5 | ug/Kg | | | | | | |
| Benzo(a)anthracene | 17.7 | | 6.6 | 13.2 | ug/Kg | 4.7 | <RDL | 3.3 | 6.68 | ug/Kg | 54.5 | | 7.3 | 14.5 | ug/Kg | | | | | |
| Benzo(a)pyrene | 17.7 | | 6.6 | 13.2 | ug/Kg | 4.8 | <RDL | 3.3 | 6.68 | ug/Kg | 62.9 | | 7.3 | 14.5 | ug/Kg | | | | | |
| Benzo(b)fluoranthene | 25 | | 6.6 | 13.2 | ug/Kg | 7.75 | | 3.3 | 6.68 | ug/Kg | 93.5 | | 7.3 | 14.5 | ug/Kg | | | | | |
| Benzo(g,h,i)perylene | 9.9 | <RDL | 6.6 | 13.2 | ug/Kg | 3.5 | <RDL | 3.3 | 6.68 | ug/Kg | 45.5 | | 7.3 | 14.5 | ug/Kg | | | | | |
| Benzo(k)fluoranthene | 17.7 | | 6.6 | 13.2 | ug/Kg | 5.8 | <RDL | 3.3 | 6.68 | ug/Kg | 61.8 | | 7.3 | 14.5 | ug/Kg | | | | | |
| Benzoic Acid | 579 | | 33 | 66.2 | ug/Kg | 204 | | 17 | 33.4 | ug/Kg | 727 | | 36 | 72.7 | ug/Kg | | | | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|-------------------|------|-------|-------|-------|-------------------|-------|-------|-------|-------|--------|-------|-------|-------|
| Locator: F322 | | FF322 | | | | | AD322 | | | | | | | | |
| Descrip: NEWAUKUM SAMPLE OF | | NEWAUKUM-424TH SE | | | | | US NEWAUKUM CR. @ | | | | | | | | |
| Sample: L48629-4 | | L48629-5 | | | | | L48629-6 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 12:40 | | 8/10/09 13:00 | | | | | 8/10/09 13:22 | | | | | | | | |
| TotalSolid: 30.2 | | 59.9 | | | | | 27.5 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Benzyl Alcohol | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | |
| Benzyl Butyl Phthalate | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | 95.6 | | 15 | 29.1 | ug/Kg | |
| Bis(2-Chloroethoxy)Methane | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Bis(2-Chloroethyl)Ether | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Bis(2-ethylhexyl)adipate | 43 | <RDL | 33 | 66.2 | ug/Kg | 33.6 | | 17 | 33.4 | ug/Kg | 98.9 | | 36 | 72.7 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 125 | B | 13 | 26.5 | ug/Kg | 58.9 | B | 6.7 | 13.4 | ug/Kg | 418 | B | 15 | 29.1 | ug/Kg |
| Bisphenol A | | <MDL | 33 | 66.2 | ug/Kg | <MDL | 17 | 33.4 | ug/Kg | 148 | | 36 | 72.7 | ug/Kg | |
| Caffeine | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Carbazole | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | 10 | <RDL | 7.3 | 14.5 | ug/Kg | |
| Chrysene | 36.4 | | 6.6 | 13.2 | ug/Kg | 8.78 | | 3.3 | 6.68 | ug/Kg | 86.9 | | 7.3 | 14.5 | ug/Kg |
| Coprostanol | | <MDL | 130 | 265 | ug/Kg | <MDL | 67 | 134 | ug/Kg | | <MDL | 150 | 291 | ug/Kg | |
| Dibenzo(a,h)anthracene | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | 15.2 | | 7.3 | 14.5 | ug/Kg | |
| Dibenzofuran | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | |
| Diethyl Phthalate | 13 | <RDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | 16 | <RDL | 15 | 29.1 | ug/Kg | |
| Dimethyl Phthalate | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Di-N-Butyl Phthalate | 33.8 | B | 13 | 26.5 | ug/Kg | 10 | <RDL,B | 6.7 | 13.4 | ug/Kg | 24 | <RDL,B | 15 | 29.1 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 13 | 26.5 | ug/Kg | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Fluoranthene | 31.2 | | 6.6 | 13.2 | ug/Kg | 7.31 | | 3.3 | 6.68 | ug/Kg | 152 | | 7.3 | 14.5 | ug/Kg |
| Fluorene | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | |
| Hexachlorobenzene | | <MDL | 0.33 | 0.662 | ug/Kg | <MDL | 0.17 | 0.334 | ug/Kg | | <MDL | 0.36 | 0.727 | ug/Kg | |
| Hexachlorobutadiene | | <MDL | 1.7 | 3.31 | ug/Kg | <MDL | 0.83 | 1.67 | ug/Kg | | <MDL | 1.8 | 3.64 | ug/Kg | |
| Hexachloroethane | | <MDL | 3.3 | 6.62 | ug/Kg | <MDL | 1.7 | 3.34 | ug/Kg | | <MDL | 3.6 | 7.27 | ug/Kg | |
| Indeno(1,2,3-Cd)Pyrene | 11 | <RDL | 6.6 | 13.2 | ug/Kg | 3.5 | <RDL | 3.3 | 6.68 | ug/Kg | 42.2 | | 7.3 | 14.5 | ug/Kg |
| Isophorone | | <MDL | 33 | 66.2 | ug/Kg | <MDL | 17 | 33.4 | ug/Kg | | <MDL | 36 | 72.7 | ug/Kg | |
| Naphthalene | | <MDL | 6.6 | 13.2 | ug/Kg | <MDL | 3.3 | 6.68 | ug/Kg | | <MDL | 7.3 | 14.5 | ug/Kg | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: | | 421240C | | | | | 421240C | | | | | 421240C | | | | |
|---------------------------|-------|-------------------------|-------|------|-------|-------|-------------------------|-------|-------|-------|-------|-------------------------|------|------|-------|--|
| Locator: | | F322 | | | | | FF322 | | | | | AD322 | | | | |
| Descrip: | | NEWAUKUM SAMPLE OF | | | | | NEWAUKUM-424TH SE | | | | | US NEWAUKUM CR. @ | | | | |
| Sample: | | L48629-4 | | | | | L48629-5 | | | | | L48629-6 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 8/10/09 12:40 | | | | | 8/10/09 13:00 | | | | | 8/10/09 13:22 | | | | |
| TotalSolid: | | 30.2 | | | | | 59.9 | | | | | 27.5 | | | | |
| | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | |
| Nitrobenzene | | <MDL | 13 | 26.5 | ug/Kg | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| N-Nitrosodimethylamine | | <MDL | 13 | 26.5 | ug/Kg | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| N-Nitrosodi-N-Propylamine | | <MDL | 13 | 26.5 | ug/Kg | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| N-Nitrosodiphenylamine | | <MDL | 13 | 26.5 | ug/Kg | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Pentachlorophenol | | <MDL | 33 | 66.2 | ug/Kg | | <MDL | 17 | 33.4 | ug/Kg | 47 | <RDL | 36 | 72.7 | ug/Kg | |
| Phenanthrene | 16.9 | | 6.6 | 13.2 | ug/Kg | 3.5 | <RDL | 3.3 | 6.68 | ug/Kg | 101 | | 7.3 | 14.5 | ug/Kg | |
| Phenol | | <MDL | 13 | 26.5 | ug/Kg | | <MDL | 6.7 | 13.4 | ug/Kg | | <MDL | 15 | 29.1 | ug/Kg | |
| Pyrene | 36.1 | | 6.6 | 13.2 | ug/Kg | 7.78 | | 3.3 | 6.68 | ug/Kg | 169 | | 7.3 | 14.5 | ug/Kg | |
| Total 4-Nonylphenol | | <MDL | 66 | 132 | ug/Kg | | <MDL | 33 | 66.8 | ug/Kg | 343 | | 73 | 145 | ug/Kg | |
| OR TERNS (2002) | | | | | | | | | | | | | | | | |
| Estradiol | | <MDL | 0.17 | 1.67 | ug/Kg | | <MDL | 0.083 | 0.841 | ug/Kg | | <MDL | 0.18 | 1.83 | ug/Kg | |
| Estrone | | <MDL | 0.099 | 1 | ug/Kg | 0.11 | <RDL | 0.05 | 0.504 | ug/Kg | 0.2 | <RDL | 0.11 | 1.1 | ug/Kg | |
| Ethynyl estradiol | | <MDL | 0.17 | 1.67 | ug/Kg | | <MDL | 0.083 | 0.841 | ug/Kg | | <MDL | 0.18 | 1.83 | ug/Kg | |
| OR WDOE NWTPH-DX | | | | | | | | | | | | | | | | |
| Diesel Range (>C12-C24) | | | | | | | | | | | | | | | | |
| Lube Oil Range (>C24) | 120 | | 83 | 83 | mg/Kg | 45 | | 42 | 42 | mg/Kg | 200 | | 91 | 91 | mg/Kg | |

* Not converted to dry weight basis

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | | |
|--|-------|---------|-------|-------|-------|--|---------|-------|------|-------|-------|--|-------|------|-------|--|--|
| Project: 421240C | | | | | | Project: 421240C | | | | | | Project: 421240C | | | | | |
| Locator: AE322 | | | | | | Locator: G322 | | | | | | Locator: QQ322 | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | | | | | Descrip: NEWAUKUM CREEK AT | | | | | | Descrip: SE 416TH -QUARRY | | | | | |
| Sample: L48629-7 | | | | | | Sample: L48629-8 | | | | | | Sample: L48629-9 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | |
| ColDate: 8/10/09 13:55 | | | | | | ColDate: 8/10/09 14:25 | | | | | | ColDate: 8/10/09 15:15 | | | | | |
| TotalSolid: 64.8 | | | | | | TotalSolid: 41.1 | | | | | | TotalSolid: 20.6 | | | | | |
| DRY Weight Basis | | | | | | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | CV ASTM D422 | | | | | | CV ASTM D422 | | | | | |
| Clay* | | <MDL | 0.71 | 1.43 | % | | <MDL | 1.2 | 2.37 | % | 13.9 | | 2.3 | 4.65 | % | | |
| Fines* | 2.9 | | 0.71 | 1.43 | % | 23.7 | | 1.2 | 2.37 | % | 46.5 | | 2.3 | 4.65 | % | | |
| Gravel* | 42 | | 0.14 | 1.43 | % | 2.1 | | 0.24 | 2.37 | % | 0.9 | <RDL | 0.46 | 4.65 | % | | |
| p+0.00* | 17.5 | | 0.14 | 1.43 | % | 3.1 | | 0.24 | 2.37 | % | 2.6 | | 0.46 | 4.65 | % | | |
| p+1.00* | 16.9 | | 0.14 | 1.43 | % | 5.9 | | 0.24 | 2.37 | % | 5.9 | | 0.46 | 4.65 | % | | |
| p+10.0(equal/more than)* | | <MDL | 0.71 | 1.43 | % | | <MDL | 1.2 | 2.37 | % | 9.3 | | 2.3 | 4.65 | % | | |
| p+2.00* | 9.3 | | 0.14 | 1.43 | % | 18.9 | | 0.24 | 2.37 | % | 8.3 | | 0.46 | 4.65 | % | | |
| p+3.00* | 3.4 | | 0.14 | 1.43 | % | 26.1 | | 0.24 | 2.37 | % | 14.9 | | 0.46 | 4.65 | % | | |
| p+4.00* | 1.4 | | 0.14 | 1.43 | % | 11.9 | | 0.24 | 2.37 | % | 11.2 | | 0.46 | 4.65 | % | | |
| p+5.00* | | <MDL | 0.71 | 1.43 | % | 18.9 | | 1.2 | 2.37 | % | 23.2 | | 2.3 | 4.65 | % | | |
| p+6.00* | 1.4 | | 0.71 | 1.43 | % | 2.4 | | 1.2 | 2.37 | % | 4.6 | | 2.3 | 4.65 | % | | |
| p+7.00* | | <MDL | 0.71 | 1.43 | % | | <MDL | 1.2 | 2.37 | % | 4.6 | | 2.3 | 4.65 | % | | |
| p+8.00* | 1.4 | | 0.71 | 1.43 | % | 2.4 | | 1.2 | 2.37 | % | | <MDL | 2.3 | 4.65 | % | | |
| p+9.00* | | <MDL | 0.71 | 1.43 | % | | <MDL | 1.2 | 2.37 | % | 4.6 | | 2.3 | 4.65 | % | | |
| p-1.00* | 14.4 | | 0.14 | 1.43 | % | 1.1 | | 0.24 | 2.37 | % | 0.9 | <RDL | 0.46 | 4.65 | % | | |
| p-2.00(less than)* | 24.4 | | 0.14 | 1.43 | % | 1.1 | | 0.24 | 2.37 | % | | <MDL | 0.46 | 4.65 | % | | |
| p-2.00* | 3.2 | | 0.14 | 1.43 | % | | <MDL | 0.24 | 2.37 | % | | <MDL | 0.46 | 4.65 | % | | |
| Sand* | 48.5 | | 0.14 | 1.43 | % | 65.9 | | 0.24 | 2.37 | % | 42.9 | | 0.46 | 4.65 | % | | |
| Silt* | 2.9 | | 0.71 | 1.43 | % | 23.7 | | 1.2 | 2.37 | % | 32.5 | | 2.3 | 4.65 | % | | |
| CV EPA DEC 1991 | | | | | | CV EPA DEC 1991 | | | | | | CV EPA DEC 1991 | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | 0.39 | 1.54 | mg/Kg | | <MDL,JG | 0.61 | 2.43 | mg/Kg | 17.6 | JG | 1.2 | 4.85 | mg/Kg | | |
| CV KEROUEL & AMINOT 1997(KCL) | | | | | | CV KEROUEL & AMINOT 1997(KCL) | | | | | | CV KEROUEL & AMINOT 1997(KCL) | | | | | |
| Ammonia Nitrogen | 11.3 | | 0.39 | 0.765 | mg/Kg | 23.2 | | 0.58 | 1.19 | mg/Kg | 60.7 | | 1.2 | 2.35 | mg/Kg | | |
| CV SM2540-G | | | | | | CV SM2540-G | | | | | | CV SM2540-G | | | | | |
| Total Solids* | 64.8 | | 0.005 | 0.01 | % | 41.1 | | 0.005 | 0.01 | % | 20.6 | | 0.005 | 0.01 | % | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|--------|-------------------|--------|---------|-------|--------|------------------|--------|---------|-------|-------|------|--------|--------|-------|
| Locator: AE322 | | G322 | | | | | QQ322 | | | | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | NEWAUKUM CREEK AT | | | | | SE 416TH -QUARRY | | | | | | | | |
| Sample: L48629-7 | | L48629-8 | | | | | L48629-9 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 13:55 | | 8/10/09 14:25 | | | | | 8/10/09 15:15 | | | | | | | | |
| TotalSolid: 64.8 | | 41.1 | | | | | 20.6 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| CV SM4500-P-F OL | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 17.9 | | 1.5 | 3.84 | mg/Kg | 39.9 | | 2.3 | 5.79 | mg/Kg | 82.5 | | 4.8 | 11.8 | mg/Kg |
| CV SW846 9045C | | | | | | | | | | | | | | | |
| pH* | 6.9 | | | | pH | 6.83 | | | | pH | 7.07 | | | | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | | |
| Total Organic Carbon | 10700 | | 1900 | 3700 | mg/Kg | 23000 | | 2700 | 5470 | mg/Kg | 82000 | | 6800 | 13600 | mg/Kg |
| MT EPA 200.7 | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | | <MDL | 0.77 | 3.86 | mg/Kg | | <MDL | 1.2 | 6.06 | mg/Kg | 2.8 | <RDL | 2.4 | 12.2 | mg/Kg |
| Cadmium, Extractable, SEM | | <MDL | 0.062 | 0.309 | mg/Kg | 0.13 | <RDL | 0.097 | 0.487 | mg/Kg | 0.28 | <RDL | 0.19 | 0.971 | mg/Kg |
| Chromium, Extractable, SEM | 0.497 | | 0.093 | 0.465 | mg/Kg | 1.09 | | 0.15 | 0.727 | mg/Kg | 2 | | 0.29 | 1.46 | mg/Kg |
| Copper, Extractable, SEM | 2.15 | | 0.12 | 0.619 | mg/Kg | 5.6 | | 0.19 | 0.971 | mg/Kg | 15.8 | | 0.39 | 1.95 | mg/Kg |
| Lead, Extractable, SEM | 2.2 | <RDL | 0.62 | 3.09 | mg/Kg | 4.4 | <RDL | 0.97 | 4.87 | mg/Kg | 6.8 | <RDL | 1.9 | 9.71 | mg/Kg |
| Nickel, Extractable, SEM | 0.65 | <RDL | 0.15 | 0.773 | mg/Kg | 1.1 | <RDL | 0.24 | 1.21 | mg/Kg | 2.87 | | 0.49 | 2.43 | mg/Kg |
| Silver, Extractable, SEM | | <MDL | 0.12 | 0.619 | mg/Kg | | <MDL | 0.97 | 4.87 | mg/Kg | | <MDL | 0.39 | 1.95 | mg/Kg |
| Zinc, Extractable, SEM | 17.3 | | 0.15 | 0.773 | mg/Kg | 29 | | 0.24 | 1.21 | mg/Kg | 54.4 | | 0.49 | 2.43 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0015 | 0.00465 | mg/Kg | | <MDL | 0.0024 | 0.00727 | mg/Kg | | <MDL | 0.0049 | 0.0146 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.04 | | 0.019 | 0.0954 | mg/Kg | 4.38 | | 0.029 | 0.152 | mg/Kg | 7.33 | | 0.058 | 0.299 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.0878 | | 0.0096 | 0.0477 | mg/Kg | 0.162 | | 0.015 | 0.0757 | mg/Kg | 0.278 | | 0.03 | 0.15 | mg/Kg |
| Chromium, Total, ICP-MS | 14.5 | J | 0.39 | 1.91 | mg/Kg | 17.1 | | 0.61 | 3.04 | mg/Kg | 23.1 | | 1.2 | 5.97 | mg/Kg |
| Copper, Total, ICP-MS | 13.1 | | 0.76 | 3.81 | mg/Kg | 20.7 | | 1.2 | 6.06 | mg/Kg | 37 | | 2.4 | 11.9 | mg/Kg |
| Lead, Total, ICP-MS | 5.63 | | 0.019 | 0.0954 | mg/Kg | 10 | | 0.029 | 0.152 | mg/Kg | 12.5 | | 0.058 | 0.299 | mg/Kg |
| Nickel, Total, ICP-MS | 8.43 | | 0.19 | 0.954 | mg/Kg | 10.1 | | 0.29 | 1.52 | mg/Kg | 13.8 | | 0.58 | 2.99 | mg/Kg |
| Phosphorus, Total, ICP-MS | 480 | <RDL | 190 | 954 | mg/Kg | 560 | <RDL | 290 | 1520 | mg/Kg | 730 | <RDL | 580 | 2990 | mg/Kg |
| Silver, Total, ICP-MS | 0.043 | <RDL | 0.0096 | 0.0477 | mg/Kg | 0.0849 | | 0.015 | 0.0757 | mg/Kg | 0.14 | <RDL | 0.03 | 0.15 | mg/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|--------|-------------------|--------|--------|-------|--------|------------------|-------|--------|-------|-------|---------|-------|--------|-------|
| Locator: AE322 | | G322 | | | | | QQ322 | | | | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | NEWAUKUM CREEK AT | | | | | SE 416TH -QUARRY | | | | | | | | |
| Sample: L48629-7 | | L48629-8 | | | | | L48629-9 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 13:55 | | 8/10/09 14:25 | | | | | 8/10/09 15:15 | | | | | | | | |
| TotalSolid: 64.8 | | 41.1 | | | | | 20.6 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Zinc, Total, ICP-MS | 60.6 | | 0.96 | 4.77 | mg/Kg | 84.9 | | 1.5 | 7.57 | mg/Kg | 126 | | 3 | 15 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.015 | <RDL | 0.0076 | 0.0756 | mg/Kg | 0.036 | <RDL | 0.012 | 0.117 | mg/Kg | 0.073 | <RDL | 0.024 | 0.241 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | | | | | | |
| DecaBDE-209 | 0.182 | J | 0.051 | 0.103 | ug/Kg | 0.309 | J | 0.08 | 0.162 | ug/Kg | 0.675 | J | 0.16 | 0.324 | ug/Kg |
| HeptaBDE-183 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.016 | 0.0324 | ug/Kg | | <MDL | 0.033 | 0.0646 | ug/Kg |
| HeptaBDE-190 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.016 | 0.0324 | ug/Kg | | <MDL | 0.033 | 0.0646 | ug/Kg |
| HexaBDE-138 | 0.0261 | TA | 0.01 | 0.0205 | ug/Kg | 0.029 | <RDL,TA | 0.016 | 0.0324 | ug/Kg | | <MDL,TA | 0.033 | 0.0646 | ug/Kg |
| HexaBDE-153 | 0.0753 | | 0.01 | 0.0205 | ug/Kg | 0.141 | | 0.016 | 0.0324 | ug/Kg | 0.22 | | 0.033 | 0.0646 | ug/Kg |
| HexaBDE-154 | 0.019 | <RDL | 0.01 | 0.0205 | ug/Kg | 0.029 | <RDL | 0.016 | 0.0324 | ug/Kg | 0.046 | <RDL | 0.033 | 0.0646 | ug/Kg |
| PentaBDE-100 | 0.017 | <RDL | 0.01 | 0.0205 | ug/Kg | 0.024 | <RDL | 0.016 | 0.0324 | ug/Kg | 0.049 | <RDL | 0.033 | 0.0646 | ug/Kg |
| PentaBDE-85 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.016 | 0.0324 | ug/Kg | | <MDL | 0.033 | 0.0646 | ug/Kg |
| PentaBDE-99 | 0.0651 | B3 | 0.01 | 0.0205 | ug/Kg | 0.0827 | B3 | 0.016 | 0.0324 | ug/Kg | 0.213 | B3 | 0.033 | 0.0646 | ug/Kg |
| TetraBDE-47 | 0.0991 | B3 | 0.01 | 0.0205 | ug/Kg | 0.117 | | 0.016 | 0.0324 | ug/Kg | 0.246 | B3 | 0.033 | 0.0646 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.016 | 0.0324 | ug/Kg | | <MDL | 0.033 | 0.0646 | ug/Kg |
| TetraBDE-71 | | <MDL,TA | 0.01 | 0.0205 | ug/Kg | | <MDL,TA | 0.016 | 0.0324 | ug/Kg | | <MDL,TA | 0.033 | 0.0646 | ug/Kg |
| TriBDE-17 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.016 | 0.0324 | ug/Kg | | <MDL | 0.033 | 0.0646 | ug/Kg |
| TriBDE-28 | | <MDL,TA | 0.01 | 0.0205 | ug/Kg | | <MDL,TA | 0.016 | 0.0324 | ug/Kg | | <MDL,TA | 0.033 | 0.0646 | ug/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg | | <MDL | 3.3 | 6.46 | ug/Kg |
| 4,4'-DDE | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg | | <MDL | 3.3 | 6.46 | ug/Kg |
| 4,4'-DDT | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg | | <MDL | 3.3 | 6.46 | ug/Kg |
| Aldrin | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg | | <MDL | 3.3 | 6.46 | ug/Kg |
| Alpha-BHC | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.8 | 1.62 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg |
| Alpha-Chlordane | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.8 | 1.62 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg |
| Beta-BHC | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.8 | 1.62 | ug/Kg | | <MDL | 1.6 | 3.24 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------------|-------|-------------------|-------|-------|-------|-------|------------------|-------|------|-------|-------|-------|-----|-----|-------|
| Locator: AE322 | | G322 | | | | | QQ322 | | | | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | NEWAUKUM CREEK AT | | | | | SE 416TH -QUARRY | | | | | | | | |
| Sample: L48629-7 | | L48629-8 | | | | | L48629-9 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 13:55 | | 8/10/09 14:25 | | | | | 8/10/09 15:15 | | | | | | | | |
| TotalSolid: 64.8 | | 41.1 | | | | | 20.6 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Delta-BHC | <MDL | 0.51 | 1.03 | ug/Kg | <MDL | 0.8 | 1.62 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | | | |
| Dieldrin | <MDL | 1 | 2.05 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | <MDL | 3.3 | 6.46 | ug/Kg | | | |
| Endosulfan I | <MDL | 1 | 2.05 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | <MDL | 3.3 | 6.46 | ug/Kg | | | |
| Endosulfan II | <MDL | 1 | 2.05 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | <MDL | 3.3 | 6.46 | ug/Kg | | | |
| Endosulfan Sulfate | <MDL | 1 | 2.05 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | <MDL | 3.3 | 6.46 | ug/Kg | | | |
| Endrin | <MDL | 1 | 2.05 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | <MDL | 3.3 | 6.46 | ug/Kg | | | |
| Endrin Aldehyde | <MDL | 1 | 2.05 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | <MDL | 3.3 | 6.46 | ug/Kg | | | |
| Gamma-BHC (Lindane) | <MDL | 0.51 | 1.03 | ug/Kg | <MDL | 0.8 | 1.62 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | | | |
| Gamma-Chlordane | <MDL | 0.51 | 1.03 | ug/Kg | <MDL | 0.8 | 1.62 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | | | |
| Heptachlor | <MDL | 0.51 | 1.03 | ug/Kg | <MDL | 0.8 | 1.62 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | | | |
| Heptachlor Epoxide | <MDL | 0.51 | 1.03 | ug/Kg | <MDL | 0.8 | 1.62 | ug/Kg | <MDL | 1.6 | 3.24 | ug/Kg | | | |
| Methoxychlor | <MDL | 5.1 | 10.3 | ug/Kg | <MDL | 8 | 16.2 | ug/Kg | <MDL | 16 | 32.4 | ug/Kg | | | |
| Toxaphene | <MDL | 10 | 20.5 | ug/Kg | <MDL | 16 | 32.4 | ug/Kg | <MDL | 33 | 64.6 | ug/Kg | | | |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | | | | |
| Aroclor 1016 | <MDL | 1.3 | 2.58 | ug/Kg | <MDL | 2 | 4.06 | ug/Kg | <MDL | 4 | 8.11 | ug/Kg | | | |
| Aroclor 1221 | <MDL | 2.6 | 5.14 | ug/Kg | <MDL | 4.1 | 8.1 | ug/Kg | <MDL | 8.3 | 16.2 | ug/Kg | | | |
| Aroclor 1232 | <MDL | 2.6 | 5.14 | ug/Kg | <MDL | 4.1 | 8.1 | ug/Kg | <MDL | 8.3 | 16.2 | ug/Kg | | | |
| Aroclor 1242 | <MDL | 1.3 | 2.58 | ug/Kg | <MDL | 2 | 4.06 | ug/Kg | <MDL | 4 | 8.11 | ug/Kg | | | |
| Aroclor 1248 | <MDL | 1.3 | 2.58 | ug/Kg | <MDL | 2 | 4.06 | ug/Kg | <MDL | 4 | 8.11 | ug/Kg | | | |
| Aroclor 1254 | <MDL | 1.3 | 2.58 | ug/Kg | <MDL | 2 | 4.06 | ug/Kg | <MDL | 4 | 8.11 | ug/Kg | | | |
| Aroclor 1260 | <MDL | 1.3 | 2.58 | ug/Kg | <MDL | 2 | 4.06 | ug/Kg | <MDL | 4 | 8.11 | ug/Kg | | | |
| Total Aroclors | <MDL | 1.3 | 2.58 | ug/Kg | <MDL | 2 | 4.06 | ug/Kg | <MDL | 4 | 8.11 | ug/Kg | | | |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | <MDL | 0.15 | 0.309 | ug/Kg | <MDL | 0.24 | 0.487 | ug/Kg | <MDL | 0.49 | 0.971 | ug/Kg | | | |
| 1,2-Dichlorobenzene | <MDL | 0.31 | 0.617 | ug/Kg | <MDL | 0.49 | 0.973 | ug/Kg | <MDL | 0.97 | 1.94 | ug/Kg | | | |
| 1,2-Diphenylhydrazine | <MDL | 6.2 | 12.3 | ug/Kg | <MDL | 9.7 | 19.5 | ug/Kg | <MDL | 19 | 38.8 | ug/Kg | | | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
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| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|-------------------|------|-------|-------|-------|------------------|------|-------|-------|-------|------|------|------|-------|
| Locator: AE322 | | G322 | | | | | QQ322 | | | | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | NEWAUKUM CREEK AT | | | | | SE 416TH -QUARRY | | | | | | | | |
| Sample: L48629-7 | | L48629-8 | | | | | L48629-9 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 13:55 | | 8/10/09 14:25 | | | | | 8/10/09 15:15 | | | | | | | | |
| TotalSolid: 64.8 | | 41.1 | | | | | 20.6 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| 1,3-Dichlorobenzene | | <MDL | 0.31 | 0.617 | ug/Kg | | <MDL | 0.49 | 0.973 | ug/Kg | | <MDL | 0.97 | 1.94 | ug/Kg |
| 1,4-Dichlorobenzene | | <MDL | 0.31 | 0.617 | ug/Kg | | <MDL | 0.49 | 0.973 | ug/Kg | | <MDL | 0.97 | 1.94 | ug/Kg |
| 2,4,5-Trichlorophenol | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| 2,4,6-Trichlorophenol | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| 2,4-Dichlorophenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| 2,4-Dimethylphenol | | <MDL | 1.5 | 3.09 | ug/Kg | | <MDL | 2.4 | 4.87 | ug/Kg | | <MDL | 4.9 | 9.71 | ug/Kg |
| 2,4-Dinitrotoluene | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| 2,6-Dinitrotoluene | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| 2-Chloronaphthalene | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| 2-Chlorophenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| 2-Methylnaphthalene | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| 2-Methylphenol | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| 2-Nitrophenol | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| 4-Bromophenyl Phenyl Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| 4-Methylphenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Acenaphthene | | <MDL | 3.1 | 6.17 | ug/Kg | 11.2 | | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Acenaphthylene | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Aniline | | <MDL | 62 | 123 | ug/Kg | | <MDL | 97 | 195 | ug/Kg | | <MDL | 190 | 388 | ug/Kg |
| Anthracene | | <MDL | 3.1 | 6.17 | ug/Kg | 7.5 | <RDL | 4.9 | 9.73 | ug/Kg | 17 | <RDL | 9.7 | 19.4 | ug/Kg |
| Benzo(a)anthracene | | <MDL | 3.1 | 6.17 | ug/Kg | 16.9 | | 4.9 | 9.73 | ug/Kg | 41.7 | | 9.7 | 19.4 | ug/Kg |
| Benzo(a)pyrene | 3.5 | <RDL | 3.1 | 6.17 | ug/Kg | 12.7 | | 4.9 | 9.73 | ug/Kg | 39.9 | | 9.7 | 19.4 | ug/Kg |
| Benzo(b)fluoranthene | 4.5 | <RDL | 3.1 | 6.17 | ug/Kg | 19.6 | | 4.9 | 9.73 | ug/Kg | 67.5 | | 9.7 | 19.4 | ug/Kg |
| Benzo(g,h,i)perylene | | <MDL | 3.1 | 6.17 | ug/Kg | 7.3 | <RDL | 4.9 | 9.73 | ug/Kg | 21.3 | | 9.7 | 19.4 | ug/Kg |
| Benzo(k)fluoranthene | 3.4 | <RDL | 3.1 | 6.17 | ug/Kg | 18.6 | | 4.9 | 9.73 | ug/Kg | 68.9 | | 9.7 | 19.4 | ug/Kg |
| Benzoic Acid | 205 | | 15 | 30.9 | ug/Kg | 294 | | 24 | 48.7 | ug/Kg | 607 | | 49 | 97.1 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|-----------------------------|-------|-------------------|------|-------|-------|-------|------------------|------|-------|-------|-------|------|------|-------|-------|
| Locator: AE322 | | G322 | | | | | QQ322 | | | | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | NEWAUKUM CREEK AT | | | | | SE 416TH -QUARRY | | | | | | | | |
| Sample: L48629-7 | | L48629-8 | | | | | L48629-9 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 13:55 | | 8/10/09 14:25 | | | | | 8/10/09 15:15 | | | | | | | | |
| TotalSolid: 64.8 | | 41.1 | | | | | 20.6 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Benzyl Alcohol | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Benzyl Butyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | 57.2 | | 9.7 | 19.5 | ug/Kg | 121 | | 19 | 38.8 | ug/Kg |
| Bis(2-Chloroethoxy)Methane | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Bis(2-Chloroethyl)Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Bis(2-ethylhexyl)adipate | 28 | <RDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | 98.1 | | 49 | 97.1 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 55.4 | B | 6.2 | 12.3 | ug/Kg | 78.3 | B | 9.7 | 19.5 | ug/Kg | 184 | B | 19 | 38.8 | ug/Kg |
| Bisphenol A | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| Caffeine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Carbazole | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Chrysene | 4.3 | <RDL | 3.1 | 6.17 | ug/Kg | 30.4 | J | 4.9 | 9.73 | ug/Kg | 50.5 | | 9.7 | 19.4 | ug/Kg |
| Coprostanol | | <MDL | 62 | 123 | ug/Kg | | <MDL | 97 | 195 | ug/Kg | | <MDL | 190 | 388 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Dibenzofuran | | <MDL | 3.1 | 6.17 | ug/Kg | 9.2 | <RDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Diethyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Di-N-Butyl Phthalate | 7.7 | <RDL,B | 6.2 | 12.3 | ug/Kg | 15 | <RDL,B | 9.7 | 19.5 | ug/Kg | 39 | B | 19 | 38.8 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Fluoranthene | 5.6 | <RDL | 3.1 | 6.17 | ug/Kg | 32.8 | | 4.9 | 9.73 | ug/Kg | 97.6 | | 9.7 | 19.4 | ug/Kg |
| Fluorene | | <MDL | 3.1 | 6.17 | ug/Kg | 18.9 | | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |
| Hexachlorobenzene | | <MDL | 0.15 | 0.309 | ug/Kg | | <MDL | 0.24 | 0.487 | ug/Kg | | <MDL | 0.49 | 0.971 | ug/Kg |
| Hexachlorobutadiene | | <MDL | 0.77 | 1.54 | ug/Kg | | <MDL | 1.2 | 2.43 | ug/Kg | | <MDL | 2.4 | 4.85 | ug/Kg |
| Hexachloroethane | | <MDL | 1.5 | 3.09 | ug/Kg | | <MDL | 2.4 | 4.87 | ug/Kg | | <MDL | 4.9 | 9.71 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 3.1 | 6.17 | ug/Kg | 6.8 | <RDL | 4.9 | 9.73 | ug/Kg | 21 | | 9.7 | 19.4 | ug/Kg |
| Isophorone | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| Naphthalene | | <MDL | 3.1 | 6.17 | ug/Kg | | <MDL | 4.9 | 9.73 | ug/Kg | | <MDL | 9.7 | 19.4 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: 421240C | | 421240C | | | | | 421240C | | | | | | | | |
|----------------------------|-------|-------------------|-------|-------|-------|-------|------------------|-------|-------|-------|-------|------|------|------|-------|
| Locator: AE322 | | G322 | | | | | QQ322 | | | | | | | | |
| Descrip: DS NEWAUKUM CR. @ | | NEWAUKUM CREEK AT | | | | | SE 416TH -QUARRY | | | | | | | | |
| Sample: L48629-7 | | L48629-8 | | | | | L48629-9 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 8/10/09 13:55 | | 8/10/09 14:25 | | | | | 8/10/09 15:15 | | | | | | | | |
| TotalSolid: 64.8 | | 41.1 | | | | | 20.6 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units | Value | Qual | MDL | RDL | Units |
| Nitrobenzene | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| N-Nitrosodimethylamine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| N-Nitrosodi-N-Propylamine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| N-Nitrosodiphenylamine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Pentachlorophenol | | <MDL | 15 | 30.9 | ug/Kg | | <MDL | 24 | 48.7 | ug/Kg | | <MDL | 49 | 97.1 | ug/Kg |
| Phenanthrene | | <MDL | 3.1 | 6.17 | ug/Kg | 40.1 | | 4.9 | 9.73 | ug/Kg | 27.6 | | 9.7 | 19.4 | ug/Kg |
| Phenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 9.7 | 19.5 | ug/Kg | | <MDL | 19 | 38.8 | ug/Kg |
| Pyrene | 6.48 | | 3.1 | 6.17 | ug/Kg | 38.2 | | 4.9 | 9.73 | ug/Kg | 95.1 | | 9.7 | 19.4 | ug/Kg |
| Total 4-Nonylphenol | | <MDL | 31 | 61.7 | ug/Kg | | <MDL | 49 | 97.3 | ug/Kg | | <MDL | 97 | 194 | ug/Kg |
| OR TERNS (2002) | | | | | | | | | | | | | | | |
| Estradiol | | <MDL | 0.077 | 0.778 | ug/Kg | | <MDL | 0.12 | 1.23 | ug/Kg | | <MDL | 0.24 | 2.45 | ug/Kg |
| Estrone | 0.17 | <RDL | 0.046 | 0.466 | ug/Kg | 0.16 | <RDL | 0.073 | 0.735 | ug/Kg | 0.43 | <RDL | 0.15 | 1.47 | ug/Kg |
| Ethynyl estradiol | | <MDL | 0.077 | 0.778 | ug/Kg | | <MDL | 0.12 | 1.23 | ug/Kg | | <MDL | 0.24 | 2.45 | ug/Kg |
| OR WDOE NWTPH-DX | | | | | | | | | | | | | | | |
| Diesel Range (>C12-C24) | | | | | | | | | | | | | | | |
| Lube Oil Range (>C24) | 42 | | 39 | 39 | mg/Kg | 72 | | 61 | 61 | mg/Kg | 190 | | 120 | 120 | mg/Kg |

* Not converted to dry weight basis

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| | | | | | |
|--|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | |
| Locator: | '0322 | | | | |
| Descrip: | NEWAUKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | |
| Clay* | | <MDL | 1.1 | 2.2 | % |
| Fines* | 24.2 | | 1.1 | 2.2 | % |
| Gravel* | 7.3 | | 0.22 | 2.2 | % |
| p+0.00* | 3.3 | | 0.22 | 2.2 | % |
| p+1.00* | 10.7 | | 0.22 | 2.2 | % |
| p+10.0(equal/more than)* | | <MDL | 1.1 | 2.2 | % |
| p+2.00* | 17.2 | | 0.22 | 2.2 | % |
| p+3.00* | 19.4 | | 0.22 | 2.2 | % |
| p+4.00* | 13.4 | | 0.22 | 2.2 | % |
| p+5.00* | 22 | | 1.1 | 2.2 | % |
| p+6.00* | 1.1 | | 1.1 | 2.2 | % |
| p+7.00* | 1.1 | | 1.1 | 2.2 | % |
| p+8.00* | | <MDL | 1.1 | 2.2 | % |
| p+9.00* | | <MDL | 1.1 | 2.2 | % |
| p-1.00* | 1.5 | | 0.22 | 2.2 | % |
| p-2.00(less than)* | 5.8 | | 0.22 | 2.2 | % |
| p-2.00* | | <MDL | 0.22 | 2.2 | % |
| Sand* | 63.9 | | 0.22 | 2.2 | % |
| Silt* | 24.2 | | 1.1 | 2.2 | % |
| CV EPA DEC 1991 | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | 0.63 | 2.49 | mg/Kg |
| CV KEROUEL & AMINOT 1997(KCL) | | | | | |
| Ammonia Nitrogen | 18.7 | | 0.63 | 1.24 | mg/Kg |
| CV SM2540-G | | | | | |
| Total Solids* | 39.9 | | 0.005 | 0.01 | % |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| | | | | | |
|-----------------------------------|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | |
| Locator: | '0322 | | | | |
| Descrip: | NEWAUKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| CV SM4500-P-F OL | | | | | |
| Orthophosphate Phosphorus | 34.8 | | 2.5 | 6.17 | mg/Kg |
| CV SW846 9045C | | | | | |
| pH* | 7.29 | | | | pH |
| CV SW846 9060-PSEP96 | | | | | |
| Total Organic Carbon | 27300 | | 2100 | 4140 | mg/Kg |
| MT EPA 200.7 | | | | | |
| Arsenic, Extractable, SEM | 1.8 | <RDL | 1.3 | 6.24 | mg/Kg |
| Cadmium, Extractable, SEM | 0.12 | <RDL | 0.1 | 0.499 | mg/Kg |
| Chromium, Extractable, SEM | 1.64 | | 0.15 | 0.747 | mg/Kg |
| Copper, Extractable, SEM | 8.82 | | 0.2 | 0.997 | mg/Kg |
| Lead, Extractable, SEM | 3.8 | <RDL | 1 | 4.99 | mg/Kg |
| Nickel, Extractable, SEM | 3.16 | | 0.25 | 1.25 | mg/Kg |
| Silver, Extractable, SEM | | <MDL | 0.2 | 0.997 | mg/Kg |
| Zinc, Extractable, SEM | 26.6 | | 0.25 | 1.25 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0025 | 0.00747 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | |
| Arsenic, Total, ICP-MS | 5.04 | | 0.03 | 0.154 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.124 | | 0.016 | 0.0772 | mg/Kg |
| Chromium, Total, ICP-MS | 23.3 | | 0.63 | 3.08 | mg/Kg |
| Copper, Total, ICP-MS | 20.1 | | 1.2 | 6.17 | mg/Kg |
| Lead, Total, ICP-MS | 5.41 | | 0.03 | 0.154 | mg/Kg |
| Nickel, Total, ICP-MS | 22.3 | | 0.3 | 1.54 | mg/Kg |
| Phosphorus, Total, ICP-MS | 600 | <RDL | 300 | 1540 | mg/Kg |
| Silver, Total, ICP-MS | 0.063 | <RDL | 0.016 | 0.0772 | mg/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| | | | | | |
|-----------------------------------|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | |
| Locator: | '0322 | | | | |
| Descrip: | NEWAUKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| Zinc, Total, ICP-MS | 62.2 | | 1.6 | 7.72 | mg/Kg |
| MT SW846 7471B | | | | | |
| Mercury, Total, CVAA | 0.048 | <RDL | 0.012 | 0.123 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | |
| DecaBDE-209 | 0.193 | J | 0.083 | 0.167 | ug/Kg |
| HeptaBDE-183 | | <MDL | 0.017 | 0.0333 | ug/Kg |
| HeptaBDE-190 | | <MDL | 0.017 | 0.0333 | ug/Kg |
| HexaBDE-138 | | <MDL,TA | 0.017 | 0.0333 | ug/Kg |
| HexaBDE-153 | 0.0632 | | 0.017 | 0.0333 | ug/Kg |
| HexaBDE-154 | | <MDL | 0.017 | 0.0333 | ug/Kg |
| PentaBDE-100 | 0.021 | <RDL | 0.017 | 0.0333 | ug/Kg |
| PentaBDE-85 | | <MDL | 0.017 | 0.0333 | ug/Kg |
| PentaBDE-99 | 0.089 | B3 | 0.017 | 0.0333 | ug/Kg |
| TetraBDE-47 | 0.151 | B3 | 0.017 | 0.0333 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.017 | 0.0333 | ug/Kg |
| TetraBDE-71 | | <MDL,TA | 0.017 | 0.0333 | ug/Kg |
| TriBDE-17 | | <MDL | 0.017 | 0.0333 | ug/Kg |
| TriBDE-28 | | <MDL,TA | 0.017 | 0.0333 | ug/Kg |
| OR SW846 3550B*SW846 8081B | | | | | |
| 4,4'-DDD | | <MDL | 1.7 | 3.33 | ug/Kg |
| 4,4'-DDE | | <MDL | 1.7 | 3.33 | ug/Kg |
| 4,4'-DDT | | <MDL | 1.7 | 3.33 | ug/Kg |
| Aldrin | | <MDL | 1.7 | 3.33 | ug/Kg |
| Alpha-BHC | | <MDL | 0.83 | 1.67 | ug/Kg |
| Alpha-Chlordane | | <MDL | 0.83 | 1.67 | ug/Kg |
| Beta-BHC | | <MDL | 0.83 | 1.67 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| | | | | | |
|-----------------------------------|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | |
| Locator: | '0322 | | | | |
| Descrip: | NEWAUKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| Delta-BHC | <MDL | 0.83 | 1.67 | ug/Kg | |
| Dieldrin | <MDL | 1.7 | 3.33 | ug/Kg | |
| Endosulfan I | <MDL | 1.7 | 3.33 | ug/Kg | |
| Endosulfan II | <MDL | 1.7 | 3.33 | ug/Kg | |
| Endosulfan Sulfate | <MDL | 1.7 | 3.33 | ug/Kg | |
| Endrin | <MDL | 1.7 | 3.33 | ug/Kg | |
| Endrin Aldehyde | <MDL | 1.7 | 3.33 | ug/Kg | |
| Gamma-BHC (Lindane) | <MDL | 0.83 | 1.67 | ug/Kg | |
| Gamma-Chlordane | <MDL | 0.83 | 1.67 | ug/Kg | |
| Heptachlor | <MDL | 0.83 | 1.67 | ug/Kg | |
| Heptachlor Epoxide | <MDL | 0.83 | 1.67 | ug/Kg | |
| Methoxychlor | <MDL | 8.3 | 16.7 | ug/Kg | |
| Toxaphene | <MDL | 17 | 33.3 | ug/Kg | |
| OR SW846 3550B*SW846 8082A | | | | | |
| Aroclor 1016 | <MDL | 2.1 | 4.19 | ug/Kg | |
| Aroclor 1221 | <MDL | 4.3 | 8.35 | ug/Kg | |
| Aroclor 1232 | <MDL | 4.3 | 8.35 | ug/Kg | |
| Aroclor 1242 | <MDL | 2.1 | 4.19 | ug/Kg | |
| Aroclor 1248 | <MDL | 2.1 | 4.19 | ug/Kg | |
| Aroclor 1254 | <MDL | 2.1 | 4.19 | ug/Kg | |
| Aroclor 1260 | <MDL | 2.1 | 4.19 | ug/Kg | |
| Total Aroclors | <MDL | 2.1 | 4.19 | ug/Kg | |
| OR SW846 3550B*SW846 8270D | | | | | |
| 1,2,4-Trichlorobenzene | <MDL | 0.25 | 0.501 | ug/Kg | |
| 1,2-Dichlorobenzene | <MDL | 0.5 | 1 | ug/Kg | |
| 1,2-Diphenylhydrazine | <MDL | 10 | 20.1 | ug/Kg | |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| Project: | 421240C | | | | |
|-----------------------------|-------------------------|-------------|------------|------------|--------------|
| Locator: | '0322 | | | | |
| Descrip: | NEWAKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| 1,3-Dichlorobenzene | | <MDL | 0.5 | 1 | ug/Kg |
| 1,4-Dichlorobenzene | | <MDL | 0.5 | 1 | ug/Kg |
| 2,4,5-Trichlorophenol | | <MDL | 25 | 50.1 | ug/Kg |
| 2,4,6-Trichlorophenol | | <MDL | 25 | 50.1 | ug/Kg |
| 2,4-Dichlorophenol | | <MDL | 10 | 20.1 | ug/Kg |
| 2,4-Dimethylphenol | | <MDL | 2.5 | 5.01 | ug/Kg |
| 2,4-Dinitrotoluene | | <MDL | 10 | 20.1 | ug/Kg |
| 2,6-Dinitrotoluene | | <MDL | 25 | 50.1 | ug/Kg |
| 2-Chloronaphthalene | | <MDL | 10 | 20.1 | ug/Kg |
| 2-Chlorophenol | | <MDL | 10 | 20.1 | ug/Kg |
| 2-Methylnaphthalene | | <MDL | 5 | 10 | ug/Kg |
| 2-Methylphenol | | <MDL | 5 | 10 | ug/Kg |
| 2-Nitrophenol | | <MDL | 25 | 50.1 | ug/Kg |
| 4-Bromophenyl Phenyl Ether | | <MDL | 10 | 20.1 | ug/Kg |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 10 | 20.1 | ug/Kg |
| 4-Methylphenol | | <MDL | 10 | 20.1 | ug/Kg |
| Acenaphthene | | <MDL | 5 | 10 | ug/Kg |
| Acenaphthylene | | <MDL | 5 | 10 | ug/Kg |
| Aniline | | <MDL | 100 | 201 | ug/Kg |
| Anthracene | | <MDL | 5 | 10 | ug/Kg |
| Benzo(a)anthracene | | <MDL | 5 | 10 | ug/Kg |
| Benzo(a)pyrene | 33.8 | | 5 | 10 | ug/Kg |
| Benzo(b)fluoranthene | | <MDL | 5 | 10 | ug/Kg |
| Benzo(g,h,i)perylene | | <MDL | 5 | 10 | ug/Kg |
| Benzo(k)fluoranthene | 5.3 | <RDL | 5 | 10 | ug/Kg |
| Benzoic Acid | 258 | | 25 | 50.1 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| | | | | | |
|-----------------------------|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | |
| Locator: | '0322 | | | | |
| Descrip: | NEWAKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| Benzyl Alcohol | | <MDL | 5 | 10 | ug/Kg |
| Benzyl Butyl Phthalate | 59.6 | | 10 | 20.1 | ug/Kg |
| Bis(2-Chloroethoxy)Methane | | <MDL | 10 | 20.1 | ug/Kg |
| Bis(2-Chloroethyl)Ether | | <MDL | 10 | 20.1 | ug/Kg |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 10 | 20.1 | ug/Kg |
| Bis(2-ethylhexyl)adipate | | <MDL | 25 | 50.1 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 89.5 | B | 10 | 20.1 | ug/Kg |
| Bisphenol A | | <MDL | 25 | 50.1 | ug/Kg |
| Caffeine | | <MDL | 10 | 20.1 | ug/Kg |
| Carbazole | | <MDL | 5 | 10 | ug/Kg |
| Chrysene | 5.3 | <RDL | 5 | 10 | ug/Kg |
| Coprostanol | | <MDL | 100 | 201 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 5 | 10 | ug/Kg |
| Dibenzofuran | | <MDL | 5 | 10 | ug/Kg |
| Diethyl Phthalate | | <MDL | 10 | 20.1 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 10 | 20.1 | ug/Kg |
| Di-N-Butyl Phthalate | 13 | <RDL,B | 10 | 20.1 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 10 | 20.1 | ug/Kg |
| Fluoranthene | | <MDL | 5 | 10 | ug/Kg |
| Fluorene | | <MDL | 5 | 10 | ug/Kg |
| Hexachlorobenzene | | <MDL | 0.25 | 0.501 | ug/Kg |
| Hexachlorobutadiene | | <MDL | 1.3 | 2.51 | ug/Kg |
| Hexachloroethane | | <MDL | 2.5 | 5.01 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 5 | 10 | ug/Kg |
| Isophorone | | <MDL | 25 | 50.1 | ug/Kg |
| Naphthalene | | <MDL | 5 | 10 | ug/Kg |

Table C-2: KCEL Stream Sediment Analytical Data 2009
King County Environmental Lab Analytical Report

| | | | | | |
|---------------------------|-------------------------|-------------|------------|------------|--------------|
| Project: | 421240C | | | | |
| Locator: | '0322 | | | | |
| Descrip: | NEWAUKUM CREEK DOW | | | | |
| Sample: | L48633-6 | | | | |
| Matrix: | SE FRSHWTRSED | | | | |
| ColDate: | 8/10/09 11:40 | | | | |
| TotalSolid: | 39.9 | | | | |
| | DRY Weight Basis | | | | |
| Parameters | Value | Qual | MDL | RDL | Units |
| Nitrobenzene | | <MDL | 10 | 20.1 | ug/Kg |
| N-Nitrosodimethylamine | | <MDL | 10 | 20.1 | ug/Kg |
| N-Nitrosodi-N-Propylamine | | <MDL | 10 | 20.1 | ug/Kg |
| N-Nitrosodiphenylamine | | <MDL | 10 | 20.1 | ug/Kg |
| Pentachlorophenol | | <MDL | 25 | 50.1 | ug/Kg |
| Phenanthrene | | <MDL | 5 | 10 | ug/Kg |
| Phenol | | <MDL | 10 | 20.1 | ug/Kg |
| Pyrene | 5.3 | <RDL | 5 | 10 | ug/Kg |
| Total 4-Nonylphenol | | <MDL | 50 | 100 | ug/Kg |
| OR TERNS (2002) | | | | | |
| Estradiol | | <MDL | 0.13 | 1.26 | ug/Kg |
| Estrone | 0.12 | <RDL | 0.075 | 0.757 | ug/Kg |
| Ethynyl estradiol | | <MDL | 0.13 | 1.26 | ug/Kg |
| OR WDOE NWTPH-DX | | | | | |
| Diesel Range (>C12-C24) | | <MDL | 63 | 63 | mg/Kg |
| Lube Oil Range (>C24) | | <MDL | 63 | 63 | mg/Kg |

* Not converted to dry weight basis

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | 421240C-300 | | | | | 421240C-300 | | | | |
|-----------------------------|-------|--------------------|-------|-------|-------|--------------------|----------|-------|-------|-------|--------------------|----------|-------|-------|-------|
| Locator: | | A320 | | | | '0320 | | | | | AA320 | | | | |
| Descrip: | | BIG SOOS CREEK//US | | | | BIG SOOS CREEK//FO | | | | | BIG SOOS CREEK, DO | | | | |
| Sample: | | L51247-7 | | | | L51298-1 | | | | | L51298-2 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 10:35 | | | | 7/26/10 10:20 | | | | | 7/26/10 11:15 | | | | |
| TotalSolid: | | 76.6 | | | | 64.9 | | | | | 76.4 | | | | |
| | | DRY Weight Basis | | | | DRY Weight Basis | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | | | | |
| Clay* | 0.7 | <RDL | 0.72 | 1.44 | % | | <MDL | 0.82 | 1.65 | % | 0.7 | <RDL | 0.68 | 1.35 | % |
| Fines* | 2.9 | | 0.72 | 1.44 | % | 8.2 | | 0.82 | 1.65 | % | 2 | | 0.68 | 1.35 | % |
| Gravel* | 11.3 | | 0.14 | 1.44 | % | 36.7 | | 0.16 | 1.65 | % | 11 | | 0.14 | 1.35 | % |
| p+0.00* | 10 | | 0.14 | 1.44 | % | 37.2 | | 0.16 | 1.65 | % | 14.9 | | 0.14 | 1.35 | % |
| p+1.00* | 27 | | 0.14 | 1.44 | % | 15.9 | | 0.16 | 1.65 | % | 26.3 | | 0.14 | 1.35 | % |
| p+10.0(equal/more than)* | | <MDL | 0.72 | 1.44 | % | | <MDL | 0.82 | 1.65 | % | 0.7 | <RDL | 0.68 | 1.35 | % |
| p+2.00* | 29.1 | | 0.14 | 1.44 | % | 6.9 | | 0.16 | 1.65 | % | 26.7 | | 0.14 | 1.35 | % |
| p+3.00* | 15.2 | | 0.14 | 1.44 | % | 1 | <RDL | 0.16 | 1.65 | % | 4.4 | | 0.14 | 1.35 | % |
| p+4.00* | 3.7 | | 0.14 | 1.44 | % | | <MDL | 0.16 | 1.65 | % | 9.9 | | 0.14 | 1.35 | % |
| p+5.00* | 1.4 | RDL | 0.72 | 1.44 | % | 5.8 | | 0.82 | 1.65 | % | 0.7 | <RDL | 0.68 | 1.35 | % |
| p+6.00* | | <MDL | 0.72 | 1.44 | % | 0.8 | <RDL | 0.82 | 1.65 | % | 0.7 | <RDL | 0.68 | 1.35 | % |
| p+7.00* | | <MDL | 0.72 | 1.44 | % | 0.8 | <RDL | 0.82 | 1.65 | % | | <MDL | 0.68 | 1.35 | % |
| p+8.00* | 0.7 | <RDL | 0.72 | 1.44 | % | 0.8 | <RDL | 0.82 | 1.65 | % | | <MDL | 0.68 | 1.35 | % |
| p+9.00* | 0.7 | <RDL | 0.72 | 1.44 | % | | <MDL | 0.82 | 1.65 | % | | <MDL | 0.68 | 1.35 | % |
| p-1.00* | 8.4 | | 0.14 | 1.44 | % | 3.2 | | 0.16 | 1.65 | % | 6.1 | | 0.14 | 1.35 | % |
| p-2.00(less than)* | 0.9 | <RDL | 0.14 | 1.44 | % | 32.3 | | 0.16 | 1.65 | % | 3.2 | | 0.14 | 1.35 | % |
| p-2.00* | 2 | | 0.14 | 1.44 | % | 1.2 | <RDL | 0.16 | 1.65 | % | 1.7 | | 0.14 | 1.35 | % |
| Sand* | 85.1 | | 0.14 | 1.44 | % | 60.9 | | 0.16 | 1.65 | % | 82.2 | | 0.14 | 1.35 | % |
| Silt* | 2.2 | | 0.72 | 1.44 | % | 8.2 | | 0.82 | 1.65 | % | 1.4 | RDL | 0.68 | 1.35 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | 0.33 | 1.29 | mg/Kg | | <MDL,JG | 0.39 | 1.52 | mg/Kg | | <MDL,JG | 0.33 | 1.3 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | | | | |
| Total Solids* | 76.6 | | 0.005 | 0.01 | % | 64.9 | | 0.005 | 0.01 | % | 76.4 | | 0.005 | 0.01 | % |
| CV SM4500-NH3-G KCL | | | | | | | | | | | | | | | |
| Ammonia Nitrogen | 2.58 | | 0.13 | 0.251 | mg/Kg | 5.86 | | 0.15 | 0.305 | mg/Kg | 2.53 | | 0.12 | 0.246 | mg/Kg |
| CV SM4500-P-F OL | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 5.46 | | 1.3 | 3.21 | mg/Kg | 11 | | 1.5 | 3.68 | mg/Kg | 4.06 | | 1.2 | 3.09 | mg/Kg |
| CV SW846 9045C | | | | | | | | | | | | | | | |
| pH* | 7.42 | | | | pH | 7.19 | | | | pH | 7.41 | | | | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | | |
| Total Organic Carbon | 4780 | | 990 | 1980 | mg/Kg | 10800 | | 1000 | 2050 | mg/Kg | 4060 | | 990 | 1990 | mg/Kg |
| MT EPA 200.7 | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 0.94 | <RDL | 0.64 | 3.21 | mg/Kg | 1 | <RDL | 0.76 | 3.79 | mg/Kg | 1.1 | <RDL | 0.65 | 3.26 | mg/Kg |
| Cadmium, Extractable, SEM | | <MDL | 0.051 | 0.257 | mg/Kg | | <MDL | 0.06 | 0.304 | mg/Kg | | <MDL | 0.052 | 0.26 | mg/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: 421240C-300 Locator: A320 Descrip: BIG SOOS CREEK//US Sample: L51247-7 Matrix: SE FRSHWTRSED ColDate: 7/26/10 10:35 TotalSolid: 76.6 DRY Weight Basis | | 421240C-300 '0320 BIG SOOS CREEK//FO L51298-1 SE FRSHWTRSED 7/26/10 10:20 64.9 DRY Weight Basis | | | | | 421240C-300 AA320 BIG SOOS CREEK, DO L51298-2 SE FRSHWTRSED 7/26/10 11:15 76.4 DRY Weight Basis | | | | | | | | |
|---|--------|--|--------|---------|-------|--------|--|--------|---------|-------|--------|----------|--------|---------|-------|
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| Chromium, Extractable, SEM | 0.786 | | 0.077 | 0.386 | mg/Kg | 1.54 | | 0.091 | 0.455 | mg/Kg | 1.12 | | 0.079 | 0.391 | mg/Kg |
| Copper, Extractable, SEM | 1.92 | | 0.1 | 0.514 | mg/Kg | 3.62 | | 0.12 | 0.607 | mg/Kg | 2.6 | | 0.1 | 0.521 | mg/Kg |
| Lead, Extractable, SEM | 1.3 | <RDL | 0.51 | 2.57 | mg/Kg | 2.5 | <RDL | 0.6 | 3.04 | mg/Kg | 1.7 | <RDL | 0.52 | 2.6 | mg/Kg |
| Nickel, Extractable, SEM | 1.27 | | 0.13 | 0.644 | mg/Kg | 2.77 | | 0.15 | 0.758 | mg/Kg | 4.25 | | 0.13 | 0.652 | mg/Kg |
| Silver, Extractable, SEM | | <MDL | 0.1 | 0.514 | mg/Kg | | <MDL | 0.12 | 0.607 | mg/Kg | | <MDL | 0.1 | 0.521 | mg/Kg |
| Zinc, Extractable, SEM | 4.77 | | 0.13 | 0.644 | mg/Kg | 9.2 | | 0.15 | 0.758 | mg/Kg | 7.34 | | 0.13 | 0.652 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0013 | 0.00386 | mg/Kg | | <MDL | 0.0015 | 0.00455 | mg/Kg | 0.002 | <RDL | 0.0013 | 0.00391 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.38 | | 0.017 | 0.0836 | mg/Kg | 2.93 | | 0.018 | 0.0945 | mg/Kg | 3.9 | | 0.033 | 0.162 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.0559 | | 0.0084 | 0.0418 | mg/Kg | 0.0753 | | 0.0094 | 0.0473 | mg/Kg | 0.064 | <RDL | 0.016 | 0.0812 | mg/Kg |
| Chromium, Total, ICP-MS | 21 | | 0.067 | 0.334 | mg/Kg | 22.8 | | 0.076 | 0.378 | mg/Kg | 27.5 | | 0.065 | 0.325 | mg/Kg |
| Copper, Total, ICP-MS | 9.5 | | 0.13 | 0.668 | mg/Kg | 10 | | 0.15 | 0.755 | mg/Kg | 9.54 | | 0.13 | 0.649 | mg/Kg |
| Lead, Total, ICP-MS | 2.79 | | 0.017 | 0.0836 | mg/Kg | 4.51 | | 0.018 | 0.0945 | mg/Kg | 2.84 | | 0.033 | 0.162 | mg/Kg |
| Nickel, Total, ICP-MS | 26.8 | | 0.034 | 0.167 | mg/Kg | 26.5 | | 0.039 | 0.19 | mg/Kg | 36.4 | | 0.033 | 0.162 | mg/Kg |
| Phosphorus, Total, ICP-MS | 371 | | 17 | 83.6 | mg/Kg | 398 | | 18 | 94.5 | mg/Kg | 370 | | 33 | 162 | mg/Kg |
| Silver, Total, ICP-MS | 0.026 | <RDL | 0.0084 | 0.0418 | mg/Kg | 0.025 | <RDL | 0.0094 | 0.0473 | mg/Kg | 0.021 | <RDL | 0.016 | 0.0812 | mg/Kg |
| Zinc, Total, ICP-MS | 34.9 | | 0.084 | 0.418 | mg/Kg | 36.5 | | 0.094 | 0.473 | mg/Kg | 35.2 | | 0.16 | 0.812 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.021 | <RDL | 0.0063 | 0.0627 | mg/Kg | 0.025 | <RDL | 0.0076 | 0.0761 | mg/Kg | 0.027 | <RDL | 0.0063 | 0.0626 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | | | | | | |
| DecaBDE-209 | 0.144 | | 0.043 | 0.0871 | ug/Kg | 0.183 | | 0.051 | 0.103 | ug/Kg | 0.118 | | 0.043 | 0.0873 | ug/Kg |
| HeptaBDE-183 | | <MDL | 0.0087 | 0.0174 | ug/Kg | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| HeptaBDE-190 | | <MDL | 0.0087 | 0.0174 | ug/Kg | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| HexaBDE-138 | 0.016 | <RDL,TA | 0.0087 | 0.0174 | ug/Kg | 0.017 | <RDL,TA | 0.01 | 0.0205 | ug/Kg | 0.0271 | TA | 0.0088 | 0.0174 | ug/Kg |
| HexaBDE-153 | 0.107 | | 0.0087 | 0.0174 | ug/Kg | 0.0864 | | 0.01 | 0.0205 | ug/Kg | 0.208 | | 0.0088 | 0.0174 | ug/Kg |
| HexaBDE-154 | 0.041 | | 0.0087 | 0.0174 | ug/Kg | 0.011 | <RDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| PentaBDE-100 | 0.0205 | | 0.0087 | 0.0174 | ug/Kg | 0.018 | <RDL | 0.01 | 0.0205 | ug/Kg | 0.014 | <RDL | 0.0088 | 0.0174 | ug/Kg |
| PentaBDE-85 | | <MDL | 0.0087 | 0.0174 | ug/Kg | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| PentaBDE-99 | 0.0585 | B | 0.0087 | 0.0174 | ug/Kg | 0.039 | B | 0.01 | 0.0205 | ug/Kg | 0.0391 | B | 0.0088 | 0.0174 | ug/Kg |
| TetraBDE-47 | 0.0885 | B | 0.0087 | 0.0174 | ug/Kg | 0.0852 | B | 0.01 | 0.0205 | ug/Kg | 0.0556 | B | 0.0088 | 0.0174 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.0087 | 0.0174 | ug/Kg | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| TetraBDE-71 | | <MDL,TA | 0.0087 | 0.0174 | ug/Kg | | <MDL,TA | 0.01 | 0.0205 | ug/Kg | | <MDL,TA | 0.0088 | 0.0174 | ug/Kg |
| TriBDE-17 | | <MDL | 0.0087 | 0.0174 | ug/Kg | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| TriBDE-28 | | <MDL,TA | 0.0087 | 0.0174 | ug/Kg | | <MDL,TA | 0.01 | 0.0205 | ug/Kg | | <MDL,TA | 0.0088 | 0.0174 | ug/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------------|-------|--------------------|------|-------|-------|-------|-------------|------|--------------------|-------|-------|----------|------|-------------|-------|--------------------|--|--|--|--|
| Locator: | | A320 | | | | | Locator: | | '0320 | | | | | Locator: | | AA320 | | | | |
| Descrip: | | BIG SOOS CREEK//US | | | | | Descrip: | | BIG SOOS CREEK//FO | | | | | Descrip: | | BIG SOOS CREEK, DO | | | | |
| Sample: | | L51247-7 | | | | | Sample: | | L51298-1 | | | | | Sample: | | L51298-2 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 10:35 | | | | | ColDate: | | 7/26/10 10:20 | | | | | ColDate: | | 7/26/10 11:15 | | | | |
| TotalSolid: | | 76.6 | | | | | TotalSolid: | | 64.9 | | | | | TotalSolid: | | 76.4 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| 4,4'-DDE | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| 4,4'-DDT | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Aldrin | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Alpha-BHC | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Alpha-Chlordane | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Beta-BHC | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Delta-BHC | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Dieldrin | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Endosulfan I | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Endosulfan II | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Endosulfan Sulfate | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Endrin | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Endrin Aldehyde | | <MDL | 0.87 | 1.74 | ug/Kg | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 0.88 | 1.74 | ug/Kg | | | | | |
| Gamma-BHC (Lindane) | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Heptachlor | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Heptachlor Epoxide | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| Methoxychlor | | <MDL | 4.3 | 8.71 | ug/Kg | | <MDL | 5.1 | 10.3 | ug/Kg | | <MDL | 4.3 | 8.73 | ug/Kg | | | | | |
| Toxaphene | | <MDL | 8.7 | 17.4 | ug/Kg | | <MDL | 10 | 20.5 | ug/Kg | | <MDL | 8.8 | 17.4 | ug/Kg | | | | | |
| trans-Chlordane | | <MDL | 0.43 | 0.871 | ug/Kg | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.43 | 0.873 | ug/Kg | | | | | |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | | <MDL | 1.1 | 2.18 | ug/Kg | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 1.1 | 2.19 | ug/Kg | | | | | |
| Aroclor 1221 | | <MDL | 2.2 | 4.35 | ug/Kg | | <MDL | 2.6 | 5.13 | ug/Kg | | <MDL | 2.2 | 4.36 | ug/Kg | | | | | |
| Aroclor 1232 | | <MDL | 2.2 | 4.35 | ug/Kg | | <MDL | 2.6 | 5.13 | ug/Kg | | <MDL | 2.2 | 4.36 | ug/Kg | | | | | |
| Aroclor 1242 | | <MDL | 1.1 | 2.18 | ug/Kg | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 1.1 | 2.19 | ug/Kg | | | | | |
| Aroclor 1248 | | <MDL | 1.1 | 2.18 | ug/Kg | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 1.1 | 2.19 | ug/Kg | | | | | |
| Aroclor 1254 | | <MDL | 1.1 | 2.18 | ug/Kg | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 1.1 | 2.19 | ug/Kg | | | | | |
| Aroclor 1260 | | <MDL | 1.1 | 2.18 | ug/Kg | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 1.1 | 2.19 | ug/Kg | | | | | |
| Total Aroclors | | <MDL | 1.1 | 2.18 | ug/Kg | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 1.1 | 2.19 | ug/Kg | | | | | |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <MDL | 0.13 | 0.261 | ug/Kg | | <MDL | 0.15 | 0.308 | ug/Kg | | <MDL | 0.13 | 0.262 | ug/Kg | | | | | |
| 1,2-Dichlorobenzene | | <MDL | 0.26 | 0.522 | ug/Kg | | <MDL | 0.31 | 0.616 | ug/Kg | | <MDL | 0.26 | 0.524 | ug/Kg | | | | | |
| 1,2-Diphenylhydrazine | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 1,3-Dichlorobenzene | | <MDL | 0.26 | 0.522 | ug/Kg | | <MDL | 0.31 | 0.616 | ug/Kg | | <MDL | 0.26 | 0.524 | ug/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------|-------|--------------------|------|-------|-------|-------|-------------|------|--------------------|-------|-------|----------|------|-------------|-------|--------------------|--|--|--|--|
| Locator: | | A320 | | | | | Locator: | | '0320 | | | | | Locator: | | AA320 | | | | |
| Descrip: | | BIG SOOS CREEK//US | | | | | Descrip: | | BIG SOOS CREEK//FO | | | | | Descrip: | | BIG SOOS CREEK, DO | | | | |
| Sample: | | L51247-7 | | | | | Sample: | | L51298-1 | | | | | Sample: | | L51298-2 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 10:35 | | | | | ColDate: | | 7/26/10 10:20 | | | | | ColDate: | | 7/26/10 11:15 | | | | |
| TotalSolid: | | 76.6 | | | | | TotalSolid: | | 64.9 | | | | | TotalSolid: | | 76.4 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| 1,4-Dichlorobenzene | | <MDL | 0.26 | 0.522 | ug/Kg | | <MDL | 0.31 | 0.616 | ug/Kg | | <MDL | 0.26 | 0.524 | ug/Kg | | | | | |
| 2,4,5-Trichlorophenol | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| 2,4,6-Trichlorophenol | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| 2,4-Dichlorophenol | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 2,4-Dimethylphenol | | <MDL | 1.3 | 2.61 | ug/Kg | | <MDL | 1.5 | 3.08 | ug/Kg | | <MDL | 1.3 | 2.62 | ug/Kg | | | | | |
| 2,4-Dinitrotoluene | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 2,6-Dinitrotoluene | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| 2-Chloronaphthalene | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 2-Chlorophenol | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 2-Methylnaphthalene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| 2-Methylphenol | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| 2-Nitrophenol | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| 4-Bromophenyl Phenyl Ether | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| 4-Methylphenol | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Acenaphthene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Acenaphthylene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Aniline | | <MDL | 52 | 104 | ug/Kg | | <MDL | 62 | 123 | ug/Kg | | <MDL | 52 | 105 | ug/Kg | | | | | |
| Anthracene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzo(a)anthracene | 4.2 | <RDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzo(a)pyrene | | <MDL | 2.6 | 5.22 | ug/Kg | 4.3 | <RDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzo(b)fluoranthene | 3.5 | <RDL | 2.6 | 5.22 | ug/Kg | 4.2 | <RDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzo(g,h,i)perylene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzo(k)fluoranthene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzoic Acid | 54 | B,J | 13 | 26.1 | ug/Kg | 90.8 | B,J | 15 | 30.8 | ug/Kg | 59.7 | B,J | 13 | 26.2 | ug/Kg | | | | | |
| Benzyl Alcohol | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Benzyl Butyl Phthalate | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Bis(2-Chloroethoxy)Methane | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Bis(2-Chloroethyl)Ether | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Bis(2-ethylhexyl)adipate | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| Bis(2-Ethylhexyl)Phthalate | 15 | B | 5.2 | 10.4 | ug/Kg | 16.3 | B | 6.2 | 12.3 | ug/Kg | 8.8 | <RDL,B | 5.2 | 10.5 | ug/Kg | | | | | |
| Bisphenol A | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| Caffeine | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|---------------------------|-------|--------------------|-------|-------|-------|-------|-------------|-------|--------------------|-------|-------|----------|-------|-------------|-------|--------------------|--|--|--|--|
| Locator: | | A320 | | | | | Locator: | | '0320 | | | | | Locator: | | AA320 | | | | |
| Descrip: | | BIG SOOS CREEK//US | | | | | Descrip: | | BIG SOOS CREEK//FO | | | | | Descrip: | | BIG SOOS CREEK, DO | | | | |
| Sample: | | L51247-7 | | | | | Sample: | | L51298-1 | | | | | Sample: | | L51298-2 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 10:35 | | | | | ColDate: | | 7/26/10 10:20 | | | | | ColDate: | | 7/26/10 11:15 | | | | |
| TotalSolid: | | 76.6 | | | | | TotalSolid: | | 64.9 | | | | | TotalSolid: | | 76.4 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| Carbazole | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Chrysene | 6.54 | | 2.6 | 5.22 | ug/Kg | 3.9 | <RDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Coprostanol | | <MDL | 52 | 104 | ug/Kg | | <MDL | 62 | 123 | ug/Kg | | <MDL | 52 | 105 | ug/Kg | | | | | |
| Dibenzo(a,h)anthracene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Dibenzofuran | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Diethyl Phthalate | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Dimethyl Phthalate | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Di-N-Butyl Phthalate | 14.2 | B | 5.2 | 10.4 | ug/Kg | 18.8 | B | 6.2 | 12.3 | ug/Kg | 13.9 | B | 5.2 | 10.5 | ug/Kg | | | | | |
| Di-N-Octyl Phthalate | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Fluoranthene | 16.2 | | 2.6 | 5.22 | ug/Kg | 8.69 | | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Fluorene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Hexachlorobenzene | | <MDL | 0.13 | 0.261 | ug/Kg | | <MDL | 0.15 | 0.308 | ug/Kg | | <MDL | 0.13 | 0.262 | ug/Kg | | | | | |
| Hexachlorobutadiene | | <MDL | 0.65 | 1.31 | ug/Kg | | <MDL | 0.77 | 1.54 | ug/Kg | | <MDL | 0.65 | 1.31 | ug/Kg | | | | | |
| Hexachloroethane | | <MDL | 1.3 | 2.61 | ug/Kg | | <MDL | 1.5 | 3.08 | ug/Kg | | <MDL | 1.3 | 2.62 | ug/Kg | | | | | |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Isophorone | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| Naphthalene | | <MDL | 2.6 | 5.22 | ug/Kg | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Nitrobenzene | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| N-Nitrosodimethylamine | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| N-Nitrosodi-N-Propylamine | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| N-Nitrosodiphenylamine | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Pentachlorophenol | | <MDL | 13 | 26.1 | ug/Kg | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 13 | 26.2 | ug/Kg | | | | | |
| Phenanthrene | 6.38 | | 2.6 | 5.22 | ug/Kg | 6.32 | | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Phenol | | <MDL | 5.2 | 10.4 | ug/Kg | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg | | | | | |
| Pyrene | 11.1 | | 2.6 | 5.22 | ug/Kg | 7.2 | | 3.1 | 6.16 | ug/Kg | | <MDL | 2.6 | 5.24 | ug/Kg | | | | | |
| Total 4-Nonylphenol | | <MDL | 26 | 52.2 | ug/Kg | | <MDL | 31 | 61.6 | ug/Kg | | <MDL | 26 | 52.4 | ug/Kg | | | | | |
| OR TERNS (2002) | | | | | | | | | | | | | | | | | | | | |
| Estradiol | | <MDL | 0.065 | 0.658 | ug/Kg | | <MDL | 0.077 | 0.777 | ug/Kg | | <MDL | 0.065 | 0.66 | ug/Kg | | | | | |
| Estrone | 0.11 | <RDL,B | 0.039 | 0.394 | ug/Kg | 0.18 | <RDL,B | 0.046 | 0.465 | ug/Kg | 0.16 | <RDL,B | 0.039 | 0.395 | ug/Kg | | | | | |
| Ethynyl estradiol | | <MDL | 0.065 | 0.658 | ug/Kg | | <MDL | 0.077 | 0.777 | ug/Kg | | <MDL | 0.065 | 0.66 | ug/Kg | | | | | |
| OR WDOE NWTTPH-DX | | | | | | | | | | | | | | | | | | | | |
| Diesel Range (>C12-C24) | | <MDL | 33 | 33 | mg/Kg | | <MDL | 39 | 39 | mg/Kg | | <MDL | 33 | 33 | mg/Kg | | | | | |
| Lube Oil Range (>C24) | | <MDL | 33 | 33 | mg/Kg | 43 | | 39 | 39 | mg/Kg | | <MDL | 33 | 33 | mg/Kg | | | | | |

* Not converted to dry weight basis

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | 421240C-300 | | | | | 421240C-300 | | | | |
|-----------------------------|-------|--------------------|-------|-------|-------|--------------------|----------|-------|-------|-------|-------------------|----------|-------|-------|-------|
| Locator: | | GG320 | | | | Q320 | | | | | HH320 | | | | |
| Descrip: | | BIG SOOS CREEK DOW | | | | BIG SOOS CR. AT SE | | | | | BIG SOOS CREEK AT | | | | |
| Sample: | | L51298-3 | | | | L51298-4 | | | | | L51298-5 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 11:45 | | | | 7/26/10 12:05 | | | | | 7/26/10 12:35 | | | | |
| TotalSolid: | | 37.1 | | | | 8.87 | | | | | 36.1 | | | | |
| | | DRY Weight Basis | | | | DRY Weight Basis | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | | | | |
| Clay* | 4 | RDL | 2 | 4.01 | % | 24.8 | | 6.2 | 12.4 | % | 7.9 | | 2.6 | 5.26 | % |
| Fines* | 12 | | 2 | 4.01 | % | 49.6 | | 6.2 | 12.4 | % | 18.4 | | 2.6 | 5.26 | % |
| Gravel* | 12.9 | | 0.4 | 4.01 | % | 12 | <RDL | 1.2 | 12.4 | % | 10.3 | | 0.53 | 5.26 | % |
| p+0.00* | 7.1 | | 0.4 | 4.01 | % | 6.8 | <RDL | 1.2 | 12.4 | % | 12.4 | | 0.53 | 5.26 | % |
| p+1.00* | 25.2 | | 0.4 | 4.01 | % | 9.4 | <RDL | 1.2 | 12.4 | % | 21.2 | | 0.53 | 5.26 | % |
| p+10.0(equal/more than)* | 2 | <RDL | 2 | 4.01 | % | 24.8 | | 6.2 | 12.4 | % | 7.9 | | 2.6 | 5.26 | % |
| p+2.00* | 23.1 | | 0.4 | 4.01 | % | 12 | <RDL | 1.2 | 12.4 | % | 25.5 | | 0.53 | 5.26 | % |
| p+3.00* | 7.6 | | 0.4 | 4.01 | % | 7.9 | <RDL | 1.2 | 12.4 | % | 11.9 | | 0.53 | 5.26 | % |
| p+4.00* | 2.6 | <RDL | 0.4 | 4.01 | % | 11 | <RDL | 1.2 | 12.4 | % | 8.5 | | 0.53 | 5.26 | % |
| p+5.00* | 6 | | 2 | 4.01 | % | 18.6 | | 6.2 | 12.4 | % | 7.9 | | 2.6 | 5.26 | % |
| p+6.00* | | <MDL | 2 | 4.01 | % | | <MDL | 6.2 | 12.4 | % | | <MDL | 2.6 | 5.26 | % |
| p+7.00* | 2 | <RDL | 2 | 4.01 | % | | <MDL | 6.2 | 12.4 | % | | <MDL | 2.6 | 5.26 | % |
| p+8.00* | | <MDL | 2 | 4.01 | % | | <MDL | 6.2 | 12.4 | % | 2.6 | <RDL | 2.6 | 5.26 | % |
| p+9.00* | 2 | <RDL | 2 | 4.01 | % | | <MDL | 6.2 | 12.4 | % | | <MDL | 2.6 | 5.26 | % |
| p-1.00* | 4.7 | | 0.4 | 4.01 | % | 5 | <RDL | 1.2 | 12.4 | % | 4.1 | <RDL | 0.53 | 5.26 | % |
| p-2.00(less than)* | 6.1 | | 0.4 | 4.01 | % | 7.2 | <RDL | 1.2 | 12.4 | % | 4.1 | <RDL | 0.53 | 5.26 | % |
| p-2.00* | 2.2 | <RDL | 0.4 | 4.01 | % | | <MDL | 1.2 | 12.4 | % | 2.1 | <RDL | 0.53 | 5.26 | % |
| Sand* | 65.7 | | 0.4 | 4.01 | % | 46.7 | | 1.2 | 12.4 | % | 79.5 | | 0.53 | 5.26 | % |
| Silt* | 8 | | 2 | 4.01 | % | 24.8 | | 6.2 | 12.4 | % | 10.5 | | 2.6 | 5.26 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | 0.65 | 2.63 | mg/kg | | <MDL,JG | 2.8 | 11 | mg/Kg | 5.96 | JG | 0.66 | 2.64 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | | | | |
| Total Solids* | 37.1 | | 0.005 | 0.01 | % | 8.87 | | 0.005 | 0.01 | % | 36.1 | | 0.005 | 0.01 | % |
| CV SM4500-NH3-G KCL | | | | | | | | | | | | | | | |
| Ammonia Nitrogen | 11.5 | | 0.27 | 0.534 | mg/Kg | 32.6 | | 1.1 | 2.25 | mg/Kg | 11.2 | | 0.27 | 0.543 | mg/Kg |
| CV SM4500-P-F OL | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 28.8 | | 2.6 | 6.58 | mg/Kg | 213 | | 11 | 27.7 | mg/Kg | 57.9 | | 2.7 | 6.9 | mg/Kg |
| CV SW846 9045C | | | | | | | | | | | | | | | |
| pH* | 7.31 | | | | pH | 7.19 | | | | pH | 7.36 | | | | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | | |
| Total Organic Carbon | 57100 | | 4600 | 9000 | mg/Kg | 168000 | | 11000 | 22700 | mg/Kg | 38500 | | 3600 | 7010 | mg/Kg |
| MT EPA 200.7 | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 8.14 | | 1.3 | 6.58 | mg/Kg | 46.6 | | 5.5 | 27.6 | mg/Kg | 15 | | 1.3 | 6.59 | mg/Kg |
| Cadmium, Extractable, SEM | 0.2 | <RDL | 0.11 | 0.526 | mg/Kg | 0.69 | <RDL | 0.44 | 2.21 | mg/Kg | 0.15 | <RDL | 0.11 | 0.529 | mg/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
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| Project: 421240C-300 | | 421240C-300 | | | | | 421240C-300 | | | | | | | | |
|-----------------------------------|--------|--------------------|--------|--------|-------|-------|-------------------|-------|--------|-------|--------|----------|--------|---------|-------|
| Locator: GG320 | | Q320 | | | | | HH320 | | | | | | | | |
| Descrip: BIG SOOS CREEK DOW | | BIG SOOS CR. AT SE | | | | | BIG SOOS CREEK AT | | | | | | | | |
| Sample: L51298-3 | | L51298-4 | | | | | L51298-5 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 7/26/10 11:45 | | 7/26/10 12:05 | | | | | 7/26/10 12:35 | | | | | | | | |
| TotalSolid: 37.1 | | 8.87 | | | | | 36.1 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| Chromium, Extractable, SEM | 0.838 | | 0.16 | 0.79 | mg/Kg | 3.68 | | 0.67 | 3.31 | mg/Kg | 1.42 | | 0.16 | 0.792 | mg/Kg |
| Copper, Extractable, SEM | 5.63 | | 0.21 | 1.05 | mg/Kg | 16.3 | | 0.88 | 4.41 | mg/Kg | 5.48 | | 0.21 | 1.06 | mg/Kg |
| Lead, Extractable, SEM | 11.1 | | 1.1 | 5.26 | mg/Kg | 35.5 | | 4.4 | 22.1 | mg/Kg | 9.47 | | 1.1 | 5.29 | mg/Kg |
| Nickel, Extractable, SEM | 2.27 | | 0.26 | 1.32 | mg/Kg | 6.81 | | 1.1 | 5.51 | mg/Kg | 2.07 | | 0.26 | 1.32 | mg/Kg |
| Silver, Extractable, SEM | 0.24 | <RDL | 0.21 | 1.05 | mg/Kg | 0.91 | <RDL | 0.88 | 4.41 | mg/Kg | | <MDL | 0.21 | 1.06 | mg/Kg |
| Zinc, Extractable, SEM | 36.4 | | 0.26 | 1.32 | mg/Kg | 121 | | 1.1 | 5.51 | mg/Kg | 40.2 | | 0.26 | 1.32 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | 0.004 | <RDL | 0.0026 | 0.0079 | mg/Kg | | <MDL | 0.011 | 0.0331 | mg/Kg | | <MDL | 0.0026 | 0.00792 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 15.7 | | 0.032 | 0.167 | mg/Kg | 63.6 | | 0.15 | 0.707 | mg/Kg | 29.6 | | 0.036 | 0.175 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.199 | | 0.017 | 0.0833 | mg/Kg | 0.738 | | 0.071 | 0.354 | mg/Kg | 0.176 | | 0.017 | 0.0873 | mg/Kg |
| Chromium, Total, ICP-MS | 20.2 | | 0.067 | 0.334 | mg/Kg | 25.7 | | 0.28 | 1.41 | mg/Kg | 21.2 | | 0.14 | 0.698 | mg/Kg |
| Copper, Total, ICP-MS | 12.9 | | 0.13 | 0.666 | mg/Kg | 25.8 | | 0.56 | 2.83 | mg/Kg | 10.2 | | 0.28 | 1.4 | mg/Kg |
| Lead, Total, ICP-MS | 19.8 | | 0.032 | 0.167 | mg/Kg | 37.5 | | 0.15 | 0.707 | mg/Kg | 12.9 | | 0.036 | 0.175 | mg/Kg |
| Nickel, Total, ICP-MS | 17.8 | | 0.032 | 0.167 | mg/Kg | 23.4 | | 0.15 | 0.707 | mg/Kg | 19 | | 0.069 | 0.349 | mg/Kg |
| Phosphorus, Total, ICP-MS | 951 | | 32 | 167 | mg/Kg | 2590 | | 150 | 707 | mg/Kg | 1080 | | 36 | 175 | mg/Kg |
| Silver, Total, ICP-MS | 0.049 | <RDL | 0.017 | 0.0833 | mg/Kg | 0.12 | <RDL | 0.071 | 0.354 | mg/Kg | 0.058 | <RDL | 0.017 | 0.0873 | mg/Kg |
| Zinc, Total, ICP-MS | 104 | | 0.17 | 0.833 | mg/Kg | 189 | | 0.71 | 3.54 | mg/Kg | 93.6 | | 0.17 | 0.873 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.054 | <RDL | 0.013 | 0.134 | mg/Kg | 0.21 | <RDL | 0.054 | 0.539 | mg/Kg | 0.075 | <RDL | 0.014 | 0.138 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | | | | | | |
| DecaBDE-209 | 1.26 | | 0.089 | 0.18 | ug/Kg | 3.59 | | 0.37 | 0.752 | ug/Kg | 3.85 | | 0.091 | 0.185 | ug/Kg |
| HeptaBDE-183 | 0.0437 | | 0.018 | 0.0358 | ug/Kg | | <MDL | 0.076 | 0.15 | ug/Kg | 0.025 | <RDL | 0.019 | 0.0368 | ug/Kg |
| HeptaBDE-190 | | <MDL | 0.018 | 0.0358 | ug/Kg | 0.11 | <RDL | 0.076 | 0.15 | ug/Kg | | <MDL | 0.019 | 0.0368 | ug/Kg |
| HexaBDE-138 | 0.14 | TA | 0.018 | 0.0358 | ug/Kg | 0.216 | TA | 0.076 | 0.15 | ug/Kg | 0.0947 | TA | 0.019 | 0.0368 | ug/Kg |
| HexaBDE-153 | 0.523 | | 0.018 | 0.0358 | ug/Kg | 0.94 | | 0.076 | 0.15 | ug/Kg | 0.299 | | 0.019 | 0.0368 | ug/Kg |
| HexaBDE-154 | 0.122 | | 0.018 | 0.0358 | ug/Kg | 0.271 | | 0.076 | 0.15 | ug/Kg | 0.0983 | | 0.019 | 0.0368 | ug/Kg |
| PentaBDE-100 | 0.136 | | 0.018 | 0.0358 | ug/Kg | 0.389 | | 0.076 | 0.15 | ug/Kg | 0.103 | | 0.019 | 0.0368 | ug/Kg |
| PentaBDE-85 | 0.027 | <RDL | 0.018 | 0.0358 | ug/Kg | 0.14 | <RDL | 0.076 | 0.15 | ug/Kg | | <MDL | 0.019 | 0.0368 | ug/Kg |
| PentaBDE-99 | 0.442 | | 0.018 | 0.0358 | ug/Kg | 1.22 | B3 | 0.076 | 0.15 | ug/Kg | 0.316 | B3 | 0.019 | 0.0368 | ug/Kg |
| TetraBDE-47 | 0.86 | | 0.018 | 0.0358 | ug/Kg | 1.3 | B3 | 0.076 | 0.15 | ug/Kg | 0.41 | B3 | 0.019 | 0.0368 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.018 | 0.0358 | ug/Kg | | <MDL | 0.076 | 0.15 | ug/Kg | | <MDL | 0.019 | 0.0368 | ug/Kg |
| TetraBDE-71 | 0.0466 | TA | 0.018 | 0.0358 | ug/Kg | 0.11 | <RDL,TA | 0.076 | 0.15 | ug/Kg | 0.025 | <RDL,TA | 0.019 | 0.0368 | ug/Kg |
| TriBDE-17 | | <MDL | 0.018 | 0.0358 | ug/Kg | | <MDL | 0.076 | 0.15 | ug/Kg | | <MDL | 0.019 | 0.0368 | ug/Kg |
| TriBDE-28 | 0.022 | <RDL,TA | 0.018 | 0.0358 | ug/Kg | 0.1 | <RDL,TA | 0.076 | 0.15 | ug/Kg | 0.021 | <RDL,TA | 0.019 | 0.0368 | ug/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------------|-------|--------------------|------|-------|-------|-------|-------------|-----|--------------------|-------|-------|----------|------|-------------|-------|-------------------|--|--|--|--|
| Locator: | | GG320 | | | | | Locator: | | Q320 | | | | | Locator: | | HH320 | | | | |
| Descrip: | | BIG SOOS CREEK DOW | | | | | Descrip: | | BIG SOOS CR. AT SE | | | | | Descrip: | | BIG SOOS CREEK AT | | | | |
| Sample: | | L51298-3 | | | | | Sample: | | L51298-4 | | | | | Sample: | | L51298-5 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 11:45 | | | | | ColDate: | | 7/26/10 12:05 | | | | | ColDate: | | 7/26/10 12:35 | | | | |
| TotalSolid: | | 37.1 | | | | | TotalSolid: | | 8.87 | | | | | TotalSolid: | | 36.1 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| 4,4'-DDE | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| 4,4'-DDT | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Aldrin | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Alpha-BHC | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Alpha-Chlordane | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Beta-BHC | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Delta-BHC | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Dieldrin | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Endosulfan I | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Endosulfan II | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Endosulfan Sulfate | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Endrin | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Endrin Aldehyde | | <MDL | 1.8 | 3.58 | ug/Kg | | <MDL | 7.6 | 15 | ug/Kg | | <MDL | 1.9 | 3.68 | ug/Kg | | | | | |
| Gamma-BHC (Lindane) | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Heptachlor | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Heptachlor Epoxide | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| Methoxychlor | | <MDL | 8.9 | 18 | ug/Kg | | <MDL | 37 | 75.2 | ug/Kg | | <MDL | 9.1 | 18.5 | ug/Kg | | | | | |
| Toxaphene | | <MDL | 18 | 35.8 | ug/Kg | | <MDL | 76 | 150 | ug/Kg | | <MDL | 19 | 36.8 | ug/Kg | | | | | |
| trans-Chlordane | | <MDL | 0.89 | 1.8 | ug/Kg | | <MDL | 3.7 | 7.52 | ug/Kg | | <MDL | 0.91 | 1.85 | ug/Kg | | | | | |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | | <MDL | 2.2 | 4.5 | ug/Kg | | <MDL | 9.4 | 18.8 | ug/Kg | | <MDL | 2.3 | 4.63 | ug/Kg | | | | | |
| Aroclor 1221 | | <MDL | 4.6 | 8.98 | ug/Kg | | <MDL | 19 | 37.5 | ug/Kg | | <MDL | 4.7 | 9.22 | ug/Kg | | | | | |
| Aroclor 1232 | | <MDL | 4.6 | 8.98 | ug/Kg | | <MDL | 19 | 37.5 | ug/Kg | | <MDL | 4.7 | 9.22 | ug/Kg | | | | | |
| Aroclor 1242 | | <MDL | 2.2 | 4.5 | ug/Kg | | <MDL | 9.4 | 18.8 | ug/Kg | | <MDL | 2.3 | 4.63 | ug/Kg | | | | | |
| Aroclor 1248 | | <MDL | 2.2 | 4.5 | ug/Kg | | <MDL | 9.4 | 18.8 | ug/Kg | | <MDL | 2.3 | 4.63 | ug/Kg | | | | | |
| Aroclor 1254 | | <MDL | 2.2 | 4.5 | ug/Kg | | <MDL | 9.4 | 18.8 | ug/Kg | | <MDL | 2.3 | 4.63 | ug/Kg | | | | | |
| Aroclor 1260 | | <MDL | 2.2 | 4.5 | ug/Kg | | <MDL | 9.4 | 18.8 | ug/Kg | | <MDL | 2.3 | 4.63 | ug/Kg | | | | | |
| Total Aroclors | | <MDL | 2.2 | 4.5 | ug/Kg | | <MDL | 9.4 | 18.8 | ug/Kg | | <MDL | 2.3 | 4.63 | ug/Kg | | | | | |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <MDL | 0.27 | 0.539 | ug/Kg | | <MDL | 1.1 | 2.25 | ug/Kg | | <MDL | 0.28 | 0.554 | ug/Kg | | | | | |
| 1,2-Dichlorobenzene | | <MDL | 0.54 | 1.08 | ug/Kg | | <MDL | 2.3 | 4.51 | ug/Kg | | <MDL | 0.55 | 1.11 | ug/Kg | | | | | |
| 1,2-Diphenylhydrazine | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 1,3-Dichlorobenzene | | <MDL | 0.54 | 1.08 | ug/Kg | | <MDL | 2.3 | 4.51 | ug/Kg | | <MDL | 0.55 | 1.11 | ug/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
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| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------|-------|--------------------|------|------|-------|-------|-------------|-----|--------------------|-------|-------|----------|------|-------------|-------|-------------------|--|--|--|--|
| Locator: | | GG320 | | | | | Locator: | | Q320 | | | | | Locator: | | HH320 | | | | |
| Descrip: | | BIG SOOS CREEK DOW | | | | | Descrip: | | BIG SOOS CR. AT SE | | | | | Descrip: | | BIG SOOS CREEK AT | | | | |
| Sample: | | L51298-3 | | | | | Sample: | | L51298-4 | | | | | Sample: | | L51298-5 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 11:45 | | | | | ColDate: | | 7/26/10 12:05 | | | | | ColDate: | | 7/26/10 12:35 | | | | |
| TotalSolid: | | 37.1 | | | | | TotalSolid: | | 8.87 | | | | | TotalSolid: | | 36.1 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| 1,4-Dichlorobenzene | | <MDL | 0.54 | 1.08 | ug/Kg | | <MDL | 2.3 | 4.51 | ug/Kg | | <MDL | 0.55 | 1.11 | ug/Kg | | | | | |
| 2,4,5-Trichlorophenol | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | | | | | |
| 2,4,6-Trichlorophenol | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | | | | | |
| 2,4-Dichlorophenol | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 2,4-Dimethylphenol | | <MDL | 2.7 | 5.39 | ug/Kg | | <MDL | 11 | 22.5 | ug/Kg | | <MDL | 2.8 | 5.54 | ug/Kg | | | | | |
| 2,4-Dinitrotoluene | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 2,6-Dinitrotoluene | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | | | | | |
| 2-Chloronaphthalene | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 2-Chlorophenol | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 2-Methylnaphthalene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | | | | | |
| 2-Methylphenol | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | | | | | |
| 2-Nitrophenol | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | | | | | |
| 4-Bromophenyl Phenyl Ether | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| 4-Methylphenol | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| Acenaphthene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | | | | | |
| Acenaphthylene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | | | | | |
| Aniline | | <MDL | 110 | 216 | ug/Kg | | <MDL | 450 | 902 | ug/Kg | | <MDL | 110 | 222 | ug/Kg | | | | | |
| Anthracene | | <MDL | 5.4 | 10.8 | ug/Kg | 38 | <RDL | 23 | 45.1 | ug/Kg | 11.5 | | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzo(a)anthracene | 6.5 | <RDL | 5.4 | 10.8 | ug/Kg | 83.5 | | 23 | 45.1 | ug/Kg | 31 | | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzo(a)pyrene | | <MDL | 5.4 | 10.8 | ug/Kg | 60.9 | | 23 | 45.1 | ug/Kg | 31.6 | | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzo(b)fluoranthene | | <MDL | 5.4 | 10.8 | ug/Kg | 96.3 | | 23 | 45.1 | ug/Kg | 37.1 | | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzo(g,h,i)perylene | | <MDL | 5.4 | 10.8 | ug/Kg | 64.4 | | 23 | 45.1 | ug/Kg | 30.7 | | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzo(k)fluoranthene | | <MDL | 5.4 | 10.8 | ug/Kg | 79.9 | | 23 | 45.1 | ug/Kg | 39.6 | | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzoic Acid | 210 | B,J | 27 | 53.9 | ug/Kg | 678 | B,J | 110 | 225 | ug/Kg | 133 | B,J | 28 | 55.4 | ug/Kg | | | | | |
| Benzyl Alcohol | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | | | | | |
| Benzyl Butyl Phthalate | | <MDL | 11 | 21.6 | ug/Kg | 54 | <RDL | 45 | 90.2 | ug/Kg | 14 | <RDL | 11 | 22.2 | ug/Kg | | | | | |
| Bis(2-Chloroethoxy)Methane | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| Bis(2-Chloroethyl)Ether | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |
| Bis(2-ethylhexyl)adipate | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | | | | | |
| Bis(2-Ethylhexyl)Phthalate | 39.9 | B | 11 | 21.6 | ug/Kg | 203 | B | 45 | 90.2 | ug/Kg | 102 | B2 | 11 | 22.2 | ug/Kg | | | | | |
| Bisphenol A | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | | | | | |
| Caffeine | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | 421240C-300 | | | | | 421240C-300 | | | | |
|---------------------------|-------|--------------------|-------|-------|-------|-------|--------------------|------|------|-------|-------|-------------------|-------|-------|-------|--|
| Locator: | | GG320 | | | | | Q320 | | | | | HH320 | | | | |
| Descrip: | | BIG SOOS CREEK DOW | | | | | BIG SOOS CR. AT SE | | | | | BIG SOOS CREEK AT | | | | |
| Sample: | | L51298-3 | | | | | L51298-4 | | | | | L51298-5 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 11:45 | | | | | 7/26/10 12:05 | | | | | 7/26/10 12:35 | | | | |
| TotalSolid: | | 37.1 | | | | | 8.87 | | | | | 36.1 | | | | |
| | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | |
| Carbazole | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | |
| Chrysene | 10 | <RDL | 5.4 | 10.8 | ug/Kg | 143 | | 23 | 45.1 | ug/Kg | 40.4 | | 5.5 | 11.1 | ug/Kg | |
| Coprostanol | | <MDL | 110 | 216 | ug/Kg | | <MDL | 450 | 902 | ug/Kg | | <MDL | 110 | 222 | ug/Kg | |
| Dibenzo(a,h)anthracene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | |
| Dibenzofuran | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | |
| Diethyl Phthalate | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| Dimethyl Phthalate | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| Di-N-Butyl Phthalate | 35 | B | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| Di-N-Octyl Phthalate | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| Fluoranthene | 17.5 | | 5.4 | 10.8 | ug/Kg | 229 | | 23 | 45.1 | ug/Kg | 95 | | 5.5 | 11.1 | ug/Kg | |
| Fluorene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | |
| Hexachlorobenzene | | <MDL | 0.27 | 0.539 | ug/Kg | | <MDL | 1.1 | 2.25 | ug/Kg | | <MDL | 0.28 | 0.554 | ug/Kg | |
| Hexachlorobutadiene | | <MDL | 1.3 | 2.7 | ug/Kg | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 1.4 | 2.77 | ug/Kg | |
| Hexachloroethane | | <MDL | 2.7 | 5.39 | ug/Kg | | <MDL | 11 | 22.5 | ug/Kg | | <MDL | 2.8 | 5.54 | ug/Kg | |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | |
| Isophorone | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | |
| Naphthalene | | <MDL | 5.4 | 10.8 | ug/Kg | | <MDL | 23 | 45.1 | ug/Kg | | <MDL | 5.5 | 11.1 | ug/Kg | |
| Nitrobenzene | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| N-Nitrosodimethylamine | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| N-Nitrosodi-N-Propylamine | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| N-Nitrosodiphenylamine | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| Pentachlorophenol | | <MDL | 27 | 53.9 | ug/Kg | | <MDL | 110 | 225 | ug/Kg | | <MDL | 28 | 55.4 | ug/Kg | |
| Phenanthrene | 11.7 | | 5.4 | 10.8 | ug/Kg | 59.8 | | 23 | 45.1 | ug/Kg | 35.7 | | 5.5 | 11.1 | ug/Kg | |
| Phenol | | <MDL | 11 | 21.6 | ug/Kg | | <MDL | 45 | 90.2 | ug/Kg | | <MDL | 11 | 22.2 | ug/Kg | |
| Pyrene | 14.3 | | 5.4 | 10.8 | ug/Kg | 183 | | 23 | 45.1 | ug/Kg | 76.2 | | 5.5 | 11.1 | ug/Kg | |
| Total 4-Nonylphenol | | <MDL | 54 | 108 | ug/Kg | | <MDL | 230 | 451 | ug/Kg | | <MDL | 55 | 111 | ug/Kg | |
| OR TERNS (2002) | | | | | | | | | | | | | | | | |
| Estradiol | | <MDL | 0.13 | 1.36 | ug/Kg | | <MDL | 0.56 | 5.68 | ug/Kg | | <MDL | 0.14 | 1.4 | ug/Kg | |
| Estrone | 0.19 | <RDL,B | 0.081 | 0.814 | ug/Kg | 0.79 | <RDL,B | 0.34 | 3.4 | ug/Kg | 0.17 | <RDL,B | 0.083 | 0.837 | ug/Kg | |
| Ethynyl estradiol | | <MDL | 0.13 | 1.36 | ug/Kg | | <MDL | 0.56 | 5.68 | ug/Kg | | <MDL | 0.14 | 1.4 | ug/Kg | |
| OR WDOE NWTPH-DX | | | | | | | | | | | | | | | | |
| Diesel Range (>C12-C24) | | <MDL | 67 | 67 | mg/Kg | | <MDL | 280 | 280 | mg/Kg | | <MDL | 69 | 69 | mg/Kg | |
| Lube Oil Range (>C24) | 130 | | 67 | 67 | mg/Kg | 850 | | 280 | 280 | mg/Kg | 130 | | 69 | 69 | mg/Kg | |

* Not converted to dry weight bas

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------|-------|------------------|-------|-------|-------|-------|-------------|-------|-------------------|-------|-------|----------|-------|-------------|-------|--------------------|--|--|--|--|
| Locator: | | P320 | | | | | Locator: | | II320 | | | | | Locator: | | RR320 | | | | |
| Descrip: | | BIG SOOS 256TH | | | | | Descrip: | | BIG SOOS CREEK AT | | | | | Descrip: | | BIG SOOS CREEK NEA | | | | |
| Sample: | | L51298-6 | | | | | Sample: | | L51298-7 | | | | | Sample: | | L51298-8 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 13:00 | | | | | ColDate: | | 7/26/10 13:20 | | | | | ColDate: | | 7/26/10 13:50 | | | | |
| TotalSolid: | | 64.9 | | | | | TotalSolid: | | 33.4 | | | | | TotalSolid: | | 52.8 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| CV ASTM D422 | | | | | | | | | | | | | | | | | | | | |
| Clay* | 6.9 | RDL | 3.4 | 6.88 | % | 4.6 | | 1.5 | 3.09 | % | 3.7 | | 0.93 | 1.86 | % | | | | | |
| Fines* | 34.4 | | 3.4 | 6.88 | % | 30.9 | | 1.5 | 3.09 | % | 11.2 | | 0.93 | 1.86 | % | | | | | |
| Gravel* | 13 | | 0.69 | 6.88 | % | 0.7 | <RDL | 0.31 | 3.09 | % | 48.9 | | 0.19 | 1.86 | % | | | | | |
| p+0.00* | 21.7 | | 0.69 | 6.88 | % | 12.5 | | 0.31 | 3.09 | % | 12.4 | | 0.19 | 1.86 | % | | | | | |
| p+1.00* | 3.9 | <RDL | 0.69 | 6.88 | % | 37.7 | | 0.31 | 3.09 | % | 1.8 | <RDL | 0.19 | 1.86 | % | | | | | |
| p+10.0(equal/more than)* | 6.9 | RDL | 3.4 | 6.88 | % | 1.5 | <RDL | 1.5 | 3.09 | % | 2.8 | | 0.93 | 1.86 | % | | | | | |
| p+2.00* | | <MDL | 0.69 | 6.88 | % | 21.3 | | 0.31 | 3.09 | % | 22.3 | | 0.19 | 1.86 | % | | | | | |
| p+3.00* | 7.5 | | 0.69 | 6.88 | % | | <MDL | 0.31 | 3.09 | % | 8.1 | | 0.19 | 1.86 | % | | | | | |
| p+4.00* | 27.8 | | 0.69 | 6.88 | % | 1.1 | <RDL | 0.31 | 3.09 | % | 2.9 | | 0.19 | 1.86 | % | | | | | |
| p+5.00* | 17.2 | | 3.4 | 6.88 | % | 17 | | 1.5 | 3.09 | % | 2.8 | | 0.93 | 1.86 | % | | | | | |
| p+6.00* | | <MDL | 3.4 | 6.88 | % | 3.1 | RDL | 1.5 | 3.09 | % | 0.9 | <RDL | 0.93 | 1.86 | % | | | | | |
| p+7.00* | 3.4 | <RDL | 3.4 | 6.88 | % | 3.1 | RDL | 1.5 | 3.09 | % | 1.9 | RDL | 0.93 | 1.86 | % | | | | | |
| p+8.00* | 6.9 | RDL | 3.4 | 6.88 | % | 3.1 | RDL | 1.5 | 3.09 | % | 1.9 | RDL | 0.93 | 1.86 | % | | | | | |
| p+9.00* | | <MDL | 3.4 | 6.88 | % | 3.1 | RDL | 1.5 | 3.09 | % | 0.9 | <RDL | 0.93 | 1.86 | % | | | | | |
| p-1.00* | 6.5 | <RDL | 0.69 | 6.88 | % | 0.7 | <RDL | 0.31 | 3.09 | % | 11.4 | | 0.19 | 1.86 | % | | | | | |
| p-2.00(less than)* | 2.5 | <RDL | 0.69 | 6.88 | % | | <MDL | 0.31 | 3.09 | % | 30.8 | | 0.19 | 1.86 | % | | | | | |
| p-2.00* | 4.1 | <RDL | 0.69 | 6.88 | % | | <MDL | 0.31 | 3.09 | % | 6.6 | | 0.19 | 1.86 | % | | | | | |
| Sand* | 60.9 | | 0.69 | 6.88 | % | 72.6 | | 0.31 | 3.09 | % | 47.5 | | 0.19 | 1.86 | % | | | | | |
| Silt* | 27.5 | | 3.4 | 6.88 | % | 26.3 | | 1.5 | 3.09 | % | 7.4 | | 0.93 | 1.86 | % | | | | | |
| CV EPA DEC 1991 | | | | | | | | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 32.8 | JG | 1.8 | 7.33 | mg/Kg | | <MDL,JG | 0.75 | 2.95 | mg/Kg | 4.15 | JG | 0.47 | 1.86 | mg/Kg | | | | | |
| CV SM2540-G | | | | | | | | | | | | | | | | | | | | |
| Total Solids* | 64.9 | | 0.005 | 0.01 | % | 33.4 | | 0.005 | 0.01 | % | 52.8 | | 0.005 | 0.01 | % | | | | | |
| CV SM4500-NH3-G KCL | | | | | | | | | | | | | | | | | | | | |
| Ammonia Nitrogen | 5.69 | | 0.15 | 0.302 | mg/Kg | 14.3 | | 1.4 | 2.8 | mg/Kg | 11.7 | | 0.95 | 1.88 | mg/Kg | | | | | |
| CV SM4500-P-F OL | | | | | | | | | | | | | | | | | | | | |
| Orthophosphate Phosphorus | 13.6 | | 1.4 | 3.48 | mg/Kg | 35 | | 3 | 7.49 | mg/Kg | 14.4 | | 1.8 | 4.51 | mg/Kg | | | | | |
| CV SW846 9045C | | | | | | | | | | | | | | | | | | | | |
| pH* | 7.32 | | | | pH | 7.06 | | | | pH | 6.68 | | | | pH | | | | | |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | | | | | | | |
| Total Organic Carbon | 24300 | | 2300 | 4700 | mg/Kg | 63800 | | 4500 | 8950 | mg/Kg | 27800 | | 2300 | 4560 | mg/Kg | | | | | |
| MT EPA 200.7 | | | | | | | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 4.11 | | 0.74 | 3.67 | mg/Kg | 5.7 | <RDL | 1.5 | 7.37 | mg/Kg | 1.3 | <RDL | 0.93 | 4.66 | mg/Kg | | | | | |
| Cadmium, Extractable, SEM | 0.088 | <RDL | 0.059 | 0.293 | mg/Kg | 0.13 | <RDL | 0.12 | 0.59 | mg/Kg | 0.087 | <RDL | 0.074 | 0.373 | mg/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: 421240C-300 | | 421240C-300 | | | | | 421240C-300 | | | | | | | | |
|-----------------------------------|--------|-------------------|--------|---------|-------|--------|--------------------|--------|---------|-------|--------|----------|--------|---------|-------|
| Locator: P320 | | II320 | | | | | RR320 | | | | | | | | |
| Descrip: BIG SOOS 256TH | | BIG SOOS CREEK AT | | | | | BIG SOOS CREEK NEA | | | | | | | | |
| Sample: L51298-6 | | L51298-7 | | | | | L51298-8 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 7/26/10 13:00 | | 7/26/10 13:20 | | | | | 7/26/10 13:50 | | | | | | | | |
| TotalSolid: 64.9 | | 33.4 | | | | | 52.8 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| Chromium, Extractable, SEM | 0.505 | | 0.088 | 0.441 | mg/Kg | 3.62 | | 0.18 | 0.883 | mg/Kg | 1.43 | | 0.11 | 0.559 | mg/Kg |
| Copper, Extractable, SEM | 2.43 | | 0.12 | 0.587 | mg/Kg | 11 | | 0.24 | 1.18 | mg/Kg | 7.22 | | 0.15 | 0.744 | mg/Kg |
| Lead, Extractable, SEM | 3.88 | | 0.59 | 2.93 | mg/Kg | 13.7 | | 1.2 | 5.9 | mg/Kg | 19.3 | | 0.74 | 3.73 | mg/Kg |
| Nickel, Extractable, SEM | 1.13 | | 0.15 | 0.733 | mg/Kg | 6.71 | | 0.29 | 1.47 | mg/Kg | 1.91 | | 0.19 | 0.93 | mg/Kg |
| Silver, Extractable, SEM | | <MDL | 0.12 | 0.587 | mg/Kg | | <MDL | 0.24 | 1.18 | mg/Kg | | <MDL | 0.15 | 0.744 | mg/Kg |
| Zinc, Extractable, SEM | 13.8 | | 0.15 | 0.733 | mg/Kg | 26 | | 0.29 | 1.47 | mg/Kg | 14.9 | | 0.19 | 0.93 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0015 | 0.00441 | mg/Kg | | <MDL | 0.0029 | 0.00883 | mg/Kg | | <MDL | 0.0019 | 0.00559 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 7.12 | | 0.02 | 0.0985 | mg/Kg | 11.6 | | 0.039 | 0.19 | mg/Kg | 6.14 | | 0.025 | 0.12 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.0663 | | 0.0099 | 0.0493 | mg/Kg | 0.271 | | 0.019 | 0.0952 | mg/Kg | 0.101 | | 0.012 | 0.0602 | mg/Kg |
| Chromium, Total, ICP-MS | 13.7 | | 0.079 | 0.394 | mg/Kg | 22.7 | | 0.15 | 0.76 | mg/Kg | 11.9 | | 0.047 | 0.241 | mg/Kg |
| Copper, Total, ICP-MS | 13.8 | | 0.15 | 0.787 | mg/Kg | 15.1 | | 0.3 | 1.52 | mg/Kg | 11.1 | | 0.097 | 0.481 | mg/Kg |
| Lead, Total, ICP-MS | 4.96 | | 0.02 | 0.0985 | mg/Kg | 18 | | 0.039 | 0.19 | mg/Kg | 20.6 | | 0.025 | 0.12 | mg/Kg |
| Nickel, Total, ICP-MS | 16 | | 0.04 | 0.197 | mg/Kg | 21.8 | | 0.075 | 0.38 | mg/Kg | 12.5 | | 0.025 | 0.12 | mg/Kg |
| Phosphorus, Total, ICP-MS | 550 | | 20 | 98.5 | mg/Kg | 775 | | 39 | 190 | mg/Kg | 475 | | 25 | 120 | mg/Kg |
| Silver, Total, ICP-MS | 0.023 | <RDL | 0.0099 | 0.0493 | mg/Kg | 0.051 | <RDL | 0.019 | 0.0952 | mg/Kg | 0.032 | <RDL | 0.012 | 0.0602 | mg/Kg |
| Zinc, Total, ICP-MS | 55.2 | | 0.099 | 0.493 | mg/Kg | 85.9 | | 0.19 | 0.952 | mg/Kg | 38.8 | | 0.12 | 0.602 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.031 | <RDL | 0.0077 | 0.0767 | mg/Kg | 0.063 | <RDL | 0.015 | 0.149 | mg/Kg | 0.047 | <RDL | 0.0091 | 0.0917 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | | | | | | |
| DecaBDE-209 | 0.481 | | 0.051 | 0.103 | ug/Kg | 0.428 | | 0.099 | 0.2 | ug/Kg | 0.098 | <RDL | 0.063 | 0.126 | ug/Kg |
| HeptaBDE-183 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.02 | 0.0398 | ug/Kg | | <MDL | 0.013 | 0.0252 | ug/Kg |
| HeptaBDE-190 | 0.012 | <RDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.02 | 0.0398 | ug/Kg | | <MDL | 0.013 | 0.0252 | ug/Kg |
| HexaBDE-138 | 0.0861 | TA | 0.01 | 0.0205 | ug/Kg | 0.114 | TA | 0.02 | 0.0398 | ug/Kg | | <MDL,TA | 0.013 | 0.0252 | ug/Kg |
| HexaBDE-153 | 0.376 | | 0.01 | 0.0205 | ug/Kg | 0.356 | | 0.02 | 0.0398 | ug/Kg | 0.021 | <RDL | 0.013 | 0.0252 | ug/Kg |
| HexaBDE-154 | 0.0673 | | 0.01 | 0.0205 | ug/Kg | 0.0638 | | 0.02 | 0.0398 | ug/Kg | 0.019 | <RDL | 0.013 | 0.0252 | ug/Kg |
| PentaBDE-100 | 0.0442 | | 0.01 | 0.0205 | ug/Kg | 0.0527 | | 0.02 | 0.0398 | ug/Kg | 0.0326 | | 0.013 | 0.0252 | ug/Kg |
| PentaBDE-85 | 0.0357 | | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.02 | 0.0398 | ug/Kg | | <MDL | 0.013 | 0.0252 | ug/Kg |
| PentaBDE-99 | 0.102 | B3 | 0.01 | 0.0205 | ug/Kg | 0.0799 | B | 0.02 | 0.0398 | ug/Kg | 0.0419 | B | 0.013 | 0.0252 | ug/Kg |
| TetraBDE-47 | 0.0903 | B | 0.01 | 0.0205 | ug/Kg | 0.171 | B | 0.02 | 0.0398 | ug/Kg | 0.072 | B | 0.013 | 0.0252 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.02 | 0.0398 | ug/Kg | | <MDL | 0.013 | 0.0252 | ug/Kg |
| TetraBDE-71 | | <MDL,TA | 0.01 | 0.0205 | ug/Kg | | <MDL,TA | 0.02 | 0.0398 | ug/Kg | | <MDL,TA | 0.013 | 0.0252 | ug/Kg |
| TriBDE-17 | | <MDL | 0.01 | 0.0205 | ug/Kg | | <MDL | 0.02 | 0.0398 | ug/Kg | | <MDL | 0.013 | 0.0252 | ug/Kg |
| TriBDE-28 | | <MDL,TA | 0.01 | 0.0205 | ug/Kg | | <MDL,TA | 0.02 | 0.0398 | ug/Kg | | <MDL,TA | 0.013 | 0.0252 | ug/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------------|-------|------------------|------|-------|-------|-------|-------------|------|-------------------|-------|-------|----------|------|-------------|-------|--------------------|--|--|--|--|
| Locator: | | P320 | | | | | Locator: | | II320 | | | | | Locator: | | RR320 | | | | |
| Descrip: | | BIG SOOS 256TH | | | | | Descrip: | | BIG SOOS CREEK AT | | | | | Descrip: | | BIG SOOS CREEK NEA | | | | |
| Sample: | | L51298-6 | | | | | Sample: | | L51298-7 | | | | | Sample: | | L51298-8 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 13:00 | | | | | ColDate: | | 7/26/10 13:20 | | | | | ColDate: | | 7/26/10 13:50 | | | | |
| TotalSolid: | | 64.9 | | | | | TotalSolid: | | 33.4 | | | | | TotalSolid: | | 52.8 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| 4,4'-DDE | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| 4,4'-DDT | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Aldrin | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Alpha-BHC | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Alpha-Chlordane | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Beta-BHC | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Delta-BHC | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Dieldrin | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Endosulfan I | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Endosulfan II | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Endosulfan Sulfate | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Endrin | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Endrin Aldehyde | | <MDL | 1 | 2.05 | ug/Kg | | <MDL | 2 | 3.98 | ug/Kg | | <MDL | 1.3 | 2.52 | ug/Kg | | | | | |
| Gamma-BHC (Lindane) | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Heptachlor | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Heptachlor Epoxide | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| Methoxychlor | | <MDL | 5.1 | 10.3 | ug/Kg | | <MDL | 9.9 | 20 | ug/Kg | | <MDL | 6.3 | 12.6 | ug/Kg | | | | | |
| Toxaphene | | <MDL | 10 | 20.5 | ug/Kg | | <MDL | 20 | 39.8 | ug/Kg | | <MDL | 13 | 25.2 | ug/Kg | | | | | |
| trans-Chlordane | | <MDL | 0.51 | 1.03 | ug/Kg | | <MDL | 0.99 | 2 | ug/Kg | | <MDL | 0.63 | 1.26 | ug/Kg | | | | | |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 2.5 | 5 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg | | | | | |
| Aroclor 1221 | | <MDL | 2.6 | 5.13 | ug/Kg | | <MDL | 5.1 | 9.97 | ug/Kg | | <MDL | 3.2 | 6.31 | ug/Kg | | | | | |
| Aroclor 1232 | | <MDL | 2.6 | 5.13 | ug/Kg | | <MDL | 5.1 | 9.97 | ug/Kg | | <MDL | 3.2 | 6.31 | ug/Kg | | | | | |
| Aroclor 1242 | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 2.5 | 5 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg | | | | | |
| Aroclor 1248 | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 2.5 | 5 | ug/Kg | | <MDL | 1.6 | 3.16 | ug/Kg | | | | | |
| Aroclor 1254 | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 2.5 | 5 | ug/Kg | | <MDL,TA | 2.5 | 5.06 | ug/Kg | | | | | |
| Aroclor 1260 | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 2.5 | 5 | ug/Kg | 1.9 | <RDL | 1.6 | 3.16 | ug/Kg | | | | | |
| Total Aroclors | | <MDL | 1.3 | 2.57 | ug/Kg | | <MDL | 2.5 | 5 | ug/Kg | 1.9 | <RDL | 1.6 | 3.16 | ug/Kg | | | | | |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <MDL | 0.15 | 0.308 | ug/Kg | | <MDL | 0.3 | 0.599 | ug/Kg | | <MDL | 0.19 | 0.379 | ug/Kg | | | | | |
| 1,2-Dichlorobenzene | | <MDL | 0.31 | 0.616 | ug/Kg | | <MDL | 0.6 | 1.2 | ug/Kg | | <MDL | 0.38 | 0.758 | ug/Kg | | | | | |
| 1,2-Diphenylhydrazine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 1,3-Dichlorobenzene | | <MDL | 0.31 | 0.616 | ug/Kg | | <MDL | 0.6 | 1.2 | ug/Kg | | <MDL | 0.38 | 0.758 | ug/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | | Project: | | 421240C-300 | | | | |
|-----------------------------|-------|------------------|------|-------|-------|-------|-------------|-----|-------------------|-------|-------|----------|------|-------------|-------|--------------------|--|--|--|--|
| Locator: | | P320 | | | | | Locator: | | II320 | | | | | Locator: | | RR320 | | | | |
| Descrip: | | BIG SOOS 256TH | | | | | Descrip: | | BIG SOOS CREEK AT | | | | | Descrip: | | BIG SOOS CREEK NEA | | | | |
| Sample: | | L51298-6 | | | | | Sample: | | L51298-7 | | | | | Sample: | | L51298-8 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | | Matrix: | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 13:00 | | | | | ColDate: | | 7/26/10 13:20 | | | | | ColDate: | | 7/26/10 13:50 | | | | |
| TotalSolid: | | 64.9 | | | | | TotalSolid: | | 33.4 | | | | | TotalSolid: | | 52.8 | | | | |
| | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | | | | | |
| 1,4-Dichlorobenzene | | <MDL | 0.31 | 0.616 | ug/Kg | | <MDL | 0.6 | 1.2 | ug/Kg | | <MDL | 0.38 | 0.758 | ug/Kg | | | | | |
| 2,4,5-Trichlorophenol | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg | | | | | |
| 2,4,6-Trichlorophenol | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg | | | | | |
| 2,4-Dichlorophenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 2,4-Dimethylphenol | | <MDL | 1.5 | 3.08 | ug/Kg | | <MDL | 3 | 5.99 | ug/Kg | | <MDL | 1.9 | 3.79 | ug/Kg | | | | | |
| 2,4-Dinitrotoluene | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 2,6-Dinitrotoluene | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg | | | | | |
| 2-Chloronaphthalene | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 2-Chlorophenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 2-Methylnaphthalene | | <MDL | 3.1 | 6.16 | ug/Kg | 32 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| 2-Methylphenol | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| 2-Nitrophenol | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg | | | | | |
| 4-Bromophenyl Phenyl Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| 4-Methylphenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| Acenaphthene | | <MDL | 3.1 | 6.16 | ug/Kg | 207 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Acenaphthylene | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Aniline | | <MDL | 62 | 123 | ug/Kg | | <MDL | 120 | 240 | ug/Kg | | <MDL | 76 | 152 | ug/Kg | | | | | |
| Anthracene | 4.9 | <RDL | 3.1 | 6.16 | ug/Kg | 461 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzo(a)anthracene | 13.1 | | 3.1 | 6.16 | ug/Kg | 608 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzo(a)pyrene | 6.27 | | 3.1 | 6.16 | ug/Kg | 290 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzo(b)fluoranthene | 9.82 | | 3.1 | 6.16 | ug/Kg | 292 | | 6 | 12 | ug/Kg | 4 | <RDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzo(g,h,i)perylene | 4 | <RDL | 3.1 | 6.16 | ug/Kg | 137 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzo(k)fluoranthene | 8.41 | | 3.1 | 6.16 | ug/Kg | 341 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzoic Acid | 63.2 | B,J | 15 | 30.8 | ug/Kg | 174 | B,J | 30 | 59.9 | ug/Kg | 101 | B,J | 19 | 37.9 | ug/Kg | | | | | |
| Benzyl Alcohol | | <MDL | 3.1 | 6.16 | ug/Kg | | <MDL | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg | | | | | |
| Benzyl Butyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| Bis(2-Chloroethoxy)Methane | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| Bis(2-Chloroethyl)Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |
| Bis(2-ethylhexyl)adipate | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg | | | | | |
| Bis(2-Ethylhexyl)Phthalate | 20.6 | B | 6.2 | 12.3 | ug/Kg | 34.4 | B | 12 | 24 | ug/Kg | 18.4 | B | 7.6 | 15.2 | ug/Kg | | | | | |
| Bisphenol A | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg | | | | | |
| Caffeine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg | | | | | |

Table C-3: KCEL Stream Sediment Analytical Data 2010
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| Project: 421240C-300 | | 421240C-300 | | | | | 421240C-300 | | | | | | | | |
|---------------------------|-------|-------------------|-------|-------|-------|-------|--------------------|------|-------|-------|-------|----------|-------|-------|-------|
| Locator: P320 | | I1320 | | | | | RR320 | | | | | | | | |
| Descrip: BIG SOOS 256TH | | BIG SOOS CREEK AT | | | | | BIG SOOS CREEK NEA | | | | | | | | |
| Sample: L51298-6 | | L51298-7 | | | | | L51298-8 | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | | | |
| ColDate: 7/26/10 13:00 | | 7/26/10 13:20 | | | | | 7/26/10 13:50 | | | | | | | | |
| TotalSolid: 64.9 | | 33.4 | | | | | 52.8 | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| Carbazole | | <MDL | 3.1 | 6.16 | ug/Kg | 120 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Chrysene | 13.5 | | 3.1 | 6.16 | ug/Kg | 731 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Coprostanol | | <MDL | 62 | 123 | ug/Kg | | <MDL | 120 | 240 | ug/Kg | | <MDL | 76 | 152 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 3.1 | 6.16 | ug/Kg | 51.8 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Dibenzofuran | | <MDL | 3.1 | 6.16 | ug/Kg | 86.8 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Diethyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| Di-N-Butyl Phthalate | 12 | <RDL,B | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | 20.8 | B | 7.6 | 15.2 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| Fluoranthene | 26.8 | | 3.1 | 6.16 | ug/Kg | 1010 | | 6 | 12 | ug/Kg | 4.5 | <RDL | 3.8 | 7.58 | ug/Kg |
| Fluorene | | <MDL | 3.1 | 6.16 | ug/Kg | 205 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Hexachlorobenzene | | <MDL | 0.15 | 0.308 | ug/Kg | | <MDL | 0.3 | 0.599 | ug/Kg | | <MDL | 0.19 | 0.379 | ug/Kg |
| Hexachlorobutadiene | | <MDL | 0.77 | 1.54 | ug/Kg | | <MDL | 1.5 | 2.99 | ug/Kg | | <MDL | 0.95 | 1.89 | ug/Kg |
| Hexachloroethane | | <MDL | 1.5 | 3.08 | ug/Kg | | <MDL | 3 | 5.99 | ug/Kg | | <MDL | 1.9 | 3.79 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 3.1 | 6.16 | ug/Kg | 123 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Isophorone | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Naphthalene | | <MDL | 3.1 | 6.16 | ug/Kg | 65.6 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Nitrobenzene | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| N-Nitrosodimethylamine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| N-Nitrosodi-N-Propylamine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| N-Nitrosodiphenylamine | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| Pentachlorophenol | | <MDL | 15 | 30.8 | ug/Kg | | <MDL | 30 | 59.9 | ug/Kg | | <MDL | 19 | 37.9 | ug/Kg |
| Phenanthrene | 9.04 | | 3.1 | 6.16 | ug/Kg | 994 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Phenol | | <MDL | 6.2 | 12.3 | ug/Kg | | <MDL | 12 | 24 | ug/Kg | | <MDL | 7.6 | 15.2 | ug/Kg |
| Pyrene | 20.3 | | 3.1 | 6.16 | ug/Kg | 916 | | 6 | 12 | ug/Kg | | <MDL | 3.8 | 7.58 | ug/Kg |
| Total 4-Nonylphenol | | <MDL | 31 | 61.6 | ug/Kg | | <MDL | 60 | 120 | ug/Kg | | <MDL | 38 | 75.8 | ug/Kg |
| OR TERNS (2002) | | | | | | | | | | | | | | | |
| Estradiol | | <MDL | 0.077 | 0.777 | ug/Kg | | <MDL | 0.15 | 1.51 | ug/Kg | | <MDL | 0.095 | 0.955 | ug/Kg |
| Estrone | 0.12 | <RDL,B | 0.046 | 0.465 | ug/Kg | 0.33 | <RDL,B | 0.09 | 0.904 | ug/Kg | 0.21 | <RDL,B | 0.057 | 0.572 | ug/Kg |
| Ethynyl estradiol | | <MDL | 0.077 | 0.777 | ug/Kg | | <MDL | 0.15 | 1.51 | ug/Kg | | <MDL | 0.095 | 0.955 | ug/Kg |
| OR WDOE NWTDPH-DX | | | | | | | | | | | | | | | |
| Diesel Range (>C12-C24) | | <MDL | 39 | 39 | mg/Kg | | <MDL | 75 | 75 | mg/Kg | | <MDL | 47 | 47 | mg/Kg |
| Lube Oil Range (>C24) | 98 | | 39 | 39 | mg/Kg | 180 | | 75 | 75 | mg/Kg | 100 | | 47 | 47 | mg/Kg |

* Not converted to dry weight bas

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | 421240C-300 | | | | |
|-----------------------------|-------|--------------------|-------|-------|-------|-------------------|----------|-------|-------|-------|
| Locator: | | SS320 | | | | L320 | | | | |
| Descrip: | | BIG SOOS CREEK-GAR | | | | BIG SOOS AT GRANT | | | | |
| Sample: | | L51298-9 | | | | L51298-10 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 14:15 | | | | 7/26/10 14:45 | | | | |
| TotalSolid: | | 70.8 | | | | 76.5 | | | | |
| | | DRY Weight Basis | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | |
| Clay* | | <MDL | 0.73 | 1.46 | % | 1.7 | RDL | 0.86 | 1.72 | % |
| Fines* | | <MDL | 0.73 | 1.46 | % | 3.4 | | 0.86 | 1.72 | % |
| Gravel* | 15.2 | | 0.15 | 1.46 | % | 26.1 | | 0.17 | 1.72 | % |
| p+0.00* | 12.7 | | 0.15 | 1.46 | % | 5 | | 0.17 | 1.72 | % |
| p+1.00* | 41.8 | | 0.15 | 1.46 | % | 7.6 | | 0.17 | 1.72 | % |
| p+10.0(equal/more than)* | | <MDL | 0.73 | 1.46 | % | 0.9 | <RDL | 0.86 | 1.72 | % |
| p+2.00* | 29.3 | | 0.15 | 1.46 | % | 20.3 | | 0.17 | 1.72 | % |
| p+3.00* | 4 | | 0.15 | 1.46 | % | 18.5 | | 0.17 | 1.72 | % |
| p+4.00* | | <MDL | 0.15 | 1.46 | % | 9.6 | | 0.17 | 1.72 | % |
| p+5.00* | | <MDL | 0.73 | 1.46 | % | | <MDL | 0.86 | 1.72 | % |
| p+6.00* | | <MDL | 0.73 | 1.46 | % | 0.9 | <RDL | 0.86 | 1.72 | % |
| p+7.00* | | <MDL | 0.73 | 1.46 | % | | <MDL | 0.86 | 1.72 | % |
| p+8.00* | | <MDL | 0.73 | 1.46 | % | 0.9 | <RDL | 0.86 | 1.72 | % |
| p+9.00* | | <MDL | 0.73 | 1.46 | % | 0.9 | <RDL | 0.86 | 1.72 | % |
| p-1.00* | 1.6 | | 0.15 | 1.46 | % | 5.3 | | 0.17 | 1.72 | % |
| p-2.00(less than)* | 13.7 | | 0.15 | 1.46 | % | 15.2 | | 0.17 | 1.72 | % |
| p-2.00* | | <MDL | 0.15 | 1.46 | % | 5.6 | | 0.17 | 1.72 | % |
| Sand* | 87.8 | | 0.15 | 1.46 | % | 61 | | 0.17 | 1.72 | % |
| Silt* | | <MDL | 0.73 | 1.46 | % | 1.7 | RDL | 0.86 | 1.72 | % |
| CV EPA DEC 1991 | | | | | | | | | | |
| Sulfide, Acid Volatile | 0.45 | <RDL,JG | 0.34 | 1.34 | mg/Kg | 9.48 | JG | 0.33 | 1.28 | mg/Kg |
| CV SM2540-G | | | | | | | | | | |
| Total Solids* | 70.8 | | 0.005 | 0.01 | % | 76.5 | | 0.005 | 0.01 | % |
| CV SM4500-NH3-G KCL | | | | | | | | | | |
| Ammonia Nitrogen | 5.59 | | 0.13 | 0.257 | mg/Kg | 4.04 | | 0.13 | 0.259 | mg/Kg |
| CV SM4500-P-F OL | | | | | | | | | | |
| Orthophosphate Phosphorus | 9.08 | | 1.3 | 3.31 | mg/Kg | 5.2 | | 1.2 | 2.89 | mg/Kg |
| CV SW846 9045C | | | | | | | | | | |
| pH* | 6.99 | | | | pH | 6.94 | | | | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | |
| Total Organic Carbon | 7600 | | 1000 | 2020 | mg/Kg | 10600 | | 1000 | 2070 | mg/Kg |
| MT EPA 200.7 | | | | | | | | | | |
| Arsenic, Extractable, SEM | 1.8 | <RDL | 0.66 | 3.35 | mg/Kg | 0.82 | <RDL | 0.64 | 3.2 | mg/Kg |
| Cadmium, Extractable, SEM | | <MDL | 0.054 | 0.268 | mg/Kg | | <MDL | 0.051 | 0.256 | mg/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
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| Project: | | 421240C-300 | | | | 421240C-300 | | | | |
|-----------------------------------|--------|-------------------------|--------|---------|-------|-------------------------|----------|--------|---------|-------|
| Locator: | | SS320 | | | | L320 | | | | |
| Descrip: | | BIG SOOS CREEK-GAR | | | | BIG SOOS AT GRANT | | | | |
| Sample: | | L51298-9 | | | | L51298-10 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 14:15 | | | | 7/26/10 14:45 | | | | |
| TotalSolid: | | 70.8 | | | | 76.5 | | | | |
| | | DRY Weight Basis | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| Chromium, Extractable, SEM | 0.531 | | 0.081 | 0.403 | mg/Kg | 0.27 | <RDL | 0.077 | 0.384 | mg/Kg |
| Copper, Extractable, SEM | 0.905 | | 0.11 | 0.537 | mg/Kg | 1.52 | | 0.1 | 0.512 | mg/Kg |
| Lead, Extractable, SEM | 3.88 | | 0.54 | 2.68 | mg/Kg | 5.67 | | 0.51 | 2.56 | mg/Kg |
| Nickel, Extractable, SEM | 0.38 | <RDL | 0.13 | 0.671 | mg/Kg | 0.647 | | 0.13 | 0.641 | mg/Kg |
| Silver, Extractable, SEM | | <MDL | 0.11 | 0.537 | mg/Kg | | <MDL | 0.1 | 0.512 | mg/Kg |
| Zinc, Extractable, SEM | 12.1 | | 0.13 | 0.671 | mg/Kg | 9.74 | | 0.13 | 0.641 | mg/Kg |
| MT EPA 245.1*SW846 7470A | | | | | | | | | | |
| Mercury, Extractable, SEM | | <MDL | 0.0013 | 0.00403 | mg/Kg | | <MDL | 0.0013 | 0.00384 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.59 | | 0.035 | 0.175 | mg/Kg | 8.24 | | 0.017 | 0.083 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.059 | <RDL | 0.017 | 0.0879 | mg/Kg | 0.0518 | | 0.0084 | 0.0416 | mg/Kg |
| Chromium, Total, ICP-MS | 13.3 | | 0.071 | 0.352 | mg/Kg | 8.18 | | 0.033 | 0.166 | mg/Kg |
| Copper, Total, ICP-MS | 4.82 | | 0.14 | 0.703 | mg/Kg | 4.71 | | 0.067 | 0.332 | mg/Kg |
| Lead, Total, ICP-MS | 5.51 | | 0.035 | 0.175 | mg/Kg | 4.46 | | 0.017 | 0.083 | mg/Kg |
| Nickel, Total, ICP-MS | 15.4 | | 0.035 | 0.175 | mg/Kg | 9.87 | | 0.017 | 0.083 | mg/Kg |
| Phosphorus, Total, ICP-MS | 380 | | 35 | 175 | mg/Kg | 416 | | 17 | 83 | mg/Kg |
| Silver, Total, ICP-MS | 0.018 | <RDL | 0.017 | 0.0879 | mg/Kg | 0.039 | <RDL | 0.0084 | 0.0416 | mg/Kg |
| Zinc, Total, ICP-MS | 46.3 | | 0.17 | 0.879 | mg/Kg | 29.4 | | 0.084 | 0.416 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | |
| Mercury, Total, CVAA | 0.017 | <RDL | 0.0069 | 0.0698 | mg/Kg | 0.018 | <RDL | 0.0065 | 0.0654 | mg/Kg |
| OR SW846 3550B*EPA 1614 | | | | | | | | | | |
| DecaBDE-209 | 0.105 | | 0.047 | 0.0942 | ug/Kg | 0.14 | | 0.043 | 0.0872 | ug/Kg |
| HeptaBDE-183 | 0.0681 | | 0.0095 | 0.0188 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| HeptaBDE-190 | 0.011 | <RDL | 0.0095 | 0.0188 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| HexaBDE-138 | 0.264 | TA | 0.0095 | 0.0188 | ug/Kg | 0.0438 | J,TA | 0.0088 | 0.0174 | ug/Kg |
| HexaBDE-153 | 0.912 | | 0.0095 | 0.0188 | ug/Kg | 0.157 | | 0.0088 | 0.0174 | ug/Kg |
| HexaBDE-154 | | <MDL | 0.0095 | 0.0188 | ug/Kg | 0.0255 | | 0.0088 | 0.0174 | ug/Kg |
| PentaBDE-100 | 0.0297 | | 0.0095 | 0.0188 | ug/Kg | 0.023 | | 0.0088 | 0.0174 | ug/Kg |
| PentaBDE-85 | | <MDL | 0.0095 | 0.0188 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| PentaBDE-99 | 0.0232 | B | 0.0095 | 0.0188 | ug/Kg | 0.0486 | B | 0.0088 | 0.0174 | ug/Kg |
| TetraBDE-47 | 0.0633 | B | 0.0095 | 0.0188 | ug/Kg | 0.0898 | B | 0.0088 | 0.0174 | ug/Kg |
| TetraBDE-66 | | <MDL | 0.0095 | 0.0188 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| TetraBDE-71 | | <MDL,TA | 0.0095 | 0.0188 | ug/Kg | | <MDL,TA | 0.0088 | 0.0174 | ug/Kg |
| TriBDE-17 | | <MDL | 0.0095 | 0.0188 | ug/Kg | | <MDL | 0.0088 | 0.0174 | ug/Kg |
| TriBDE-28 | 0.013 | <RDL,TA | 0.0095 | 0.0188 | ug/Kg | | <MDL,TA | 0.0088 | 0.0174 | ug/Kg |

Table C-3: KCEL Stream Sediment Analytical Data 2010
King County Environmental Lab Analytical Report

| Project: | | 421240C-300 | | | | 421240C-300 | | | | |
|-----------------------------------|-------|-------------------------|------|-------|-------|-------------------------|----------|-------|-------|-------|
| Locator: | | SS320 | | | | L320 | | | | |
| Descrip: | | BIG SOOS CREEK-GAR | | | | BIG SOOS AT GRANT | | | | |
| Sample: | | L51298-9 | | | | L51298-10 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 14:15 | | | | 7/26/10 14:45 | | | | |
| TotalSolid: | | 70.8 | | | | 76.5 | | | | |
| | | DRY Weight Basis | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | |
| 4,4'-DDD | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| 4,4'-DDE | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| 4,4'-DDT | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Aldrin | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Alpha-BHC | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Alpha-Chlordane | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Beta-BHC | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Delta-BHC | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Dieldrin | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Endosulfan I | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Endosulfan II | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Endosulfan Sulfate | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Endrin | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Endrin Aldehyde | | <MDL | 0.95 | 1.88 | ug/Kg | <MDL | 0.88 | 1.74 | 1.74 | ug/Kg |
| Gamma-BHC (Lindane) | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Heptachlor | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Heptachlor Epoxide | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| Methoxychlor | | <MDL | 4.7 | 9.42 | ug/Kg | <MDL | 4.3 | 8.72 | 8.72 | ug/Kg |
| Toxaphene | | <MDL | 9.5 | 18.8 | ug/Kg | <MDL | 8.8 | 17.4 | 17.4 | ug/Kg |
| trans-Chlordane | | <MDL | 0.47 | 0.942 | ug/Kg | <MDL | 0.43 | 0.872 | 0.872 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | |
| Aroclor 1016 | | <MDL | 1.2 | 2.36 | ug/Kg | <MDL | 1.1 | 2.18 | 2.18 | ug/Kg |
| Aroclor 1221 | | <MDL | 2.4 | 4.7 | ug/Kg | <MDL | 2.2 | 4.35 | 4.35 | ug/Kg |
| Aroclor 1232 | | <MDL | 2.4 | 4.7 | ug/Kg | <MDL | 2.2 | 4.35 | 4.35 | ug/Kg |
| Aroclor 1242 | | <MDL | 1.2 | 2.36 | ug/Kg | <MDL | 1.1 | 2.18 | 2.18 | ug/Kg |
| Aroclor 1248 | | <MDL | 1.2 | 2.36 | ug/Kg | <MDL | 1.1 | 2.18 | 2.18 | ug/Kg |
| Aroclor 1254 | | <MDL | 1.2 | 2.36 | ug/Kg | <MDL | 1.1 | 2.18 | 2.18 | ug/Kg |
| Aroclor 1260 | | <MDL | 1.2 | 2.36 | ug/Kg | <MDL | 1.1 | 2.18 | 2.18 | ug/Kg |
| Total Aroclors | | <MDL | 1.2 | 2.36 | ug/Kg | <MDL | 1.1 | 2.18 | 2.18 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | | <MDL | 0.14 | 0.282 | ug/Kg | <MDL | 0.13 | 0.261 | 0.261 | ug/Kg |
| 1,2-Dichlorobenzene | | <MDL | 0.28 | 0.565 | ug/Kg | <MDL | 0.26 | 0.523 | 0.523 | ug/Kg |
| 1,2-Diphenylhydrazine | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | 10.5 | ug/Kg |
| 1,3-Dichlorobenzene | | <MDL | 0.28 | 0.565 | ug/Kg | <MDL | 0.26 | 0.523 | 0.523 | ug/Kg |

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| Project: | | 421240C-300 | | | | 421240C-300 | | | | |
|-----------------------------|-------|--------------------|------|-------|-------|-------------------|----------|-------|-------|-------|
| Locator: | | SS320 | | | | L320 | | | | |
| Descrip: | | BIG SOOS CREEK-GAR | | | | BIG SOOS AT GRANT | | | | |
| Sample: | | L51298-9 | | | | L51298-10 | | | | |
| Matrix: | | SE FRSHWTRSED | | | | SE FRSHWTRSED | | | | |
| ColDate: | | 7/26/10 14:15 | | | | 7/26/10 14:45 | | | | |
| TotalSolid: | | 70.8 | | | | 76.5 | | | | |
| | | DRY Weight Basis | | | | DRY Weight Basis | | | | |
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| 1,4-Dichlorobenzene | | <MDL | 0.28 | 0.565 | ug/Kg | <MDL | 0.26 | 0.523 | ug/Kg | |
| 2,4,5-Trichlorophenol | | <MDL | 14 | 28.2 | ug/Kg | <MDL | 13 | 26.1 | ug/Kg | |
| 2,4,6-Trichlorophenol | | <MDL | 14 | 28.2 | ug/Kg | <MDL | 13 | 26.1 | ug/Kg | |
| 2,4-Dichlorophenol | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| 2,4-Dimethylphenol | | <MDL | 1.4 | 2.82 | ug/Kg | <MDL | 1.3 | 2.61 | ug/Kg | |
| 2,4-Dinitrotoluene | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| 2,6-Dinitrotoluene | | <MDL | 14 | 28.2 | ug/Kg | <MDL | 13 | 26.1 | ug/Kg | |
| 2-Chloronaphthalene | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| 2-Chlorophenol | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| 2-Methylnaphthalene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| 2-Methylphenol | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| 2-Nitrophenol | | <MDL | 14 | 28.2 | ug/Kg | <MDL | 13 | 26.1 | ug/Kg | |
| 4-Bromophenyl Phenyl Ether | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| 4-Chlorophenyl Phenyl Ether | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| 4-Methylphenol | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| Acenaphthene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Acenaphthylene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Aniline | | <MDL,JG | 56 | 113 | ug/Kg | <MDL | 52 | 105 | ug/Kg | |
| Anthracene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzo(a)anthracene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzo(a)pyrene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzo(b)fluoranthene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzo(g,h,i)perylene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzo(k)fluoranthene | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzoic Acid | 75.3 | B,J | 14 | 28.2 | ug/Kg | 56.7 | B,J | 13 | 26.1 | ug/Kg |
| Benzyl Alcohol | | <MDL | 2.8 | 5.65 | ug/Kg | <MDL | 2.6 | 5.23 | ug/Kg | |
| Benzyl Butyl Phthalate | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| Bis(2-Chloroethoxy)Methane | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| Bis(2-Chloroethyl)Ether | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| Bis(2-Chloroisopropyl)Ether | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |
| Bis(2-ethylhexyl)adipate | | <MDL,JG | 14 | 28.2 | ug/Kg | <MDL,JG | 13 | 26.1 | ug/Kg | |
| Bis(2-Ethylhexyl)Phthalate | 15.7 | B | 5.6 | 11.3 | ug/Kg | 10.8 | B | 5.2 | 10.5 | ug/Kg |
| Bisphenol A | | <MDL,JG | 14 | 28.2 | ug/Kg | <MDL,JG | 13 | 26.1 | ug/Kg | |
| Caffeine | | <MDL | 5.6 | 11.3 | ug/Kg | <MDL | 5.2 | 10.5 | ug/Kg | |

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| Project: 421240C-300 Locator: SS320 Descrip: BIG SOOS CREEK-GAR Sample: L51298-9 Matrix: SE FRSHWTRSED ColDate: 7/26/10 14:15 TotalSolid: 70.8 DRY Weight Basis | | 421240C-300 L320 BIG SOOS AT GRANT L51298-10 SE FRSHWTRSED 7/26/10 14:45 76.5 DRY Weight Basis | | | | | | | | |
|--|--------------|---|------------|------------|--------------|--------------|-----------------|------------|------------|--------------|
| Parameters | Value | Lab Qual | MDL | RDL | Units | Value | Lab Qual | MDL | RDL | Units |
| Carbazole | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Chrysene | 3.1 | <RDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Coprostanol | | <MDL | 56 | 113 | ug/Kg | | <MDL | 52 | 105 | ug/Kg |
| Dibenzo(a,h)anthracene | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Dibenzofuran | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Diethyl Phthalate | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| Dimethyl Phthalate | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| Di-N-Butyl Phthalate | 16.2 | B | 5.6 | 11.3 | ug/Kg | 15.9 | B | 5.2 | 10.5 | ug/Kg |
| Di-N-Octyl Phthalate | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| Fluoranthene | 6.81 | | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Fluorene | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Hexachlorobenzene | | <MDL | 0.14 | 0.282 | ug/Kg | | <MDL | 0.13 | 0.261 | ug/Kg |
| Hexachlorobutadiene | | <MDL | 0.71 | 1.41 | ug/Kg | | <MDL | 0.65 | 1.31 | ug/Kg |
| Hexachloroethane | | <MDL | 1.4 | 2.82 | ug/Kg | | <MDL | 1.3 | 2.61 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Isophorone | | <MDL | 14 | 28.2 | ug/Kg | | <MDL | 13 | 26.1 | ug/Kg |
| Naphthalene | | <MDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Nitrobenzene | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| N-Nitrosodimethylamine | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| N-Nitrosodi-N-Propylamine | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| N-Nitrosodiphenylamine | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL | 5.2 | 10.5 | ug/Kg |
| Pentachlorophenol | | <MDL | 14 | 28.2 | ug/Kg | | <MDL | 13 | 26.1 | ug/Kg |
| Phenanthrene | 3.1 | <RDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Phenol | | <MDL | 5.6 | 11.3 | ug/Kg | | <MDL,J | 5.2 | 10.5 | ug/Kg |
| Pyrene | 5.5 | <RDL | 2.8 | 5.65 | ug/Kg | | <MDL | 2.6 | 5.23 | ug/Kg |
| Total 4-Nonylphenol | | <MDL | 28 | 56.5 | ug/Kg | | <MDL | 26 | 52.3 | ug/Kg |
| OR TERNS (2002) | | | | | | | | | | |
| Estradiol | | <MDL | 0.071 | 0.712 | ug/Kg | | <MDL | 0.065 | 0.659 | ug/Kg |
| Estrone | 0.089 | <RDL,B | 0.042 | 0.427 | ug/Kg | 0.17 | <RDL,B | 0.039 | 0.395 | ug/Kg |
| Ethynyl estradiol | | <MDL | 0.071 | 0.712 | ug/Kg | | <MDL | 0.065 | 0.659 | ug/Kg |
| OR WDOE NWT PH-DX | | | | | | | | | | |
| Diesel Range (>C12-C24) | | <MDL | 35 | 35 | mg/Kg | | <MDL | 33 | 33 | mg/Kg |
| Lube Oil Range (>C24) | | <MDL | 35 | 35 | mg/Kg | 39 | | 33 | 33 | mg/Kg |

* Not converted to dry weight bas

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: A315 Descrip: HILL CREEK (MILL)/ Sample: L56024-1 Matrix: SE FRSHWTRSED ColDate: 8/13/12 11:35 TotalSolid: 49.7 Sample Information: 20 spoons; under bridge, H2S slight DRY Weight Basis | | SD315 MILL CRK AT W.VALL L56024-2 SE FRSHWTRSED 8/13/12 12:20 47.5 20 spoons; lots of plant debris, hay, H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|-------|-------|-------|-------|----------|-----------------|-------|-------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 25.7 | — | — | 1.1 | 2.1 | % | 11.8 | — | — | 0.9 | 1.8 | % |
| Gravel* | 18.2 | — | — | 0.2 | 2.1 | % | 31.2 | — | — | 0.2 | 1.8 | % |
| Sand* | 47 | — | — | 0.2 | 2.1 | % | 49.4 | — | — | 0.2 | 1.8 | % |
| Silt* | 21.4 | — | — | 1.1 | 2.1 | % | 7.3 | — | — | 0.9 | 1.8 | % |
| Clay* | 4.3 | — | — | 1.1 | 2.1 | % | 4.5 | — | — | 0.9 | 1.8 | % |
| p+0.00* | 1.2 | <RDL | J | 0.2 | 2.1 | % | 2.9 | — | — | 0.2 | 1.8 | % |
| p+1.00* | 5.3 | — | — | 0.2 | 2.1 | % | 3.9 | — | — | 0.2 | 1.8 | % |
| p+10.0(equal/more than)* | 4.3 | — | — | 1.1 | 2.1 | % | 3.6 | — | — | 0.9 | 1.8 | % |
| p+2.00* | 8.1 | — | — | 0.2 | 2.1 | % | 14.3 | — | — | 0.2 | 1.8 | % |
| p+3.00* | 8.6 | — | — | 0.2 | 2.1 | % | 15.6 | — | — | 0.2 | 1.8 | % |
| p+4.00* | 23.8 | — | — | 0.2 | 2.1 | % | 12.6 | — | — | 0.2 | 1.8 | % |
| p+5.00* | 12.8 | — | — | 1.1 | 2.1 | % | 3.6 | — | — | 0.9 | 1.8 | % |
| p+6.00* | 5.4 | — | — | 1.1 | 2.1 | % | 1.8 | RDL | — | 0.9 | 1.8 | % |
| p+7.00* | 2.1 | RDL | — | 1.1 | 2.1 | % | 0.9 | <RDL | J | 0.9 | 1.8 | % |
| p+8.00* | 1.1 | <RDL | J | 1.1 | 2.1 | % | 0.9 | <RDL | J | 0.9 | 1.8 | % |
| p+9.00* | — | <MDL | U | 1.1 | 2.1 | % | 0.9 | <RDL | J | 0.9 | 1.8 | % |
| p-1.00* | 3.7 | — | — | 0.2 | 2.1 | % | 3.5 | — | — | 0.2 | 1.8 | % |
| p-2.00(less than)* | 14.3 | — | — | 0.2 | 2.1 | % | 26.1 | — | — | 0.2 | 1.8 | % |
| p-2.00* | 0.2 | <RDL | J | 0.2 | 2.1 | % | 1.6 | <RDL | J | 0.2 | 1.8 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 10.2 | JG | — | 0.48 | 1.94 | mg/Kg | 84.4 | JG | — | 2.5 | 10.2 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 49.7 | — | — | 0.005 | 0.01 | % | 47.5 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.94 | — | — | — | — | pH | 6.84 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 15400 | — | — | 1200 | 2490 | mg/Kg | 16300 | — | — | 2000 | 4000 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 2.8 | <RDL | J | 0.97 | 4.85 | mg/Kg | 4.4 | <RDL | J | 1 | 5.12 | mg/Kg |
| Cadmium, Extractable, SEM | 0.11 | <RDL | J | 0.078 | 0.388 | mg/Kg | 0.594 | — | — | 0.082 | 0.408 | mg/Kg |
| Chromium, Extractable, SEM | 1.8 | — | — | 0.12 | 0.581 | mg/Kg | 4.19 | — | — | 0.12 | 0.615 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: A315 Descrip: HILL CREEK (MILL)/ Sample: L56024-1 Matrix: SE FRSHWTRSED ColDate: 8/13/12 11:35 TotalSolid: 49.7 Sample Information: 20 spoons; under bridge, H2S slight DRY Weight Basis | | SD315 MILL CRK AT W.VALL L56024-2 SE FRSHWTRSED 8/13/12 12:20 47.5 20 spoons; lots of plant debris, hay, H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|--------|---------|-------|-------|----------|-----------------|--------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 9.72 | — | — | 0.15 | 0.777 | mg/Kg | 17.8 | — | — | 0.16 | 0.819 | mg/Kg |
| Lead, Extractable, SEM | 6.18 | — | — | 0.78 | 3.88 | mg/Kg | 37.1 | — | — | 0.82 | 4.08 | mg/Kg |
| Nickel, Extractable, SEM | 1.87 | — | — | 0.19 | 0.97 | mg/Kg | 5.52 | — | — | 0.2 | 1.02 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.15 | 0.777 | mg/Kg | — | <MDL | U | 0.16 | 0.819 | mg/Kg |
| Zinc, Extractable, SEM | 21.7 | — | — | 0.19 | 0.97 | mg/Kg | 134 | — | — | 0.2 | 1.02 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | 0.004 | <RDL | J | 0.0019 | 0.00581 | mg/Kg | — | <MDL | U | 0.002 | 0.00615 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 5.88 | — | — | 0.017 | 0.0849 | mg/Kg | 8.67 | — | — | 0.021 | 0.104 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.128 | — | — | 0.0085 | 0.0425 | mg/Kg | 0.335 | — | — | 0.01 | 0.052 | mg/Kg |
| Chromium, Total, ICP-MS | 11.8 | — | — | 0.14 | 0.68 | mg/Kg | 12.9 | — | — | 0.17 | 0.832 | mg/Kg |
| Copper, Total, ICP-MS | 18.3 | — | — | 0.28 | 1.36 | mg/Kg | 18.2 | — | — | 0.34 | 1.67 | mg/Kg |
| Lead, Total, ICP-MS | 8.09 | — | — | 0.017 | 0.0849 | mg/Kg | 28.2 | — | — | 0.021 | 0.104 | mg/Kg |
| Nickel, Total, ICP-MS | 11.4 | — | — | 0.068 | 0.34 | mg/Kg | 12.1 | — | — | 0.084 | 0.417 | mg/Kg |
| Silver, Total, ICP-MS | 0.062 | — | — | 0.0068 | 0.034 | mg/Kg | 0.103 | — | — | 0.0084 | 0.0417 | mg/Kg |
| Zinc, Total, ICP-MS | 50.1 | — | — | 0.085 | 0.425 | mg/Kg | 120 | — | — | 0.42 | 2.08 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.114 | — | — | 0.0097 | 0.0962 | mg/Kg | 0.059 | <RDL | J | 0.01 | 0.104 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | 2 | <RDL | J | 1.1 | 2.15 | ug/Kg | 2 | <RDL | J | 1.1 | 2.25 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Aldrin | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Beta-BHC | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Delta-BHC | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Dieldrin | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Endosulfan I | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Endosulfan II | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Endrin | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: A315 Descrip: HILL CREEK (MILL)/ Sample: L56024-1 Matrix: SE FRSHWTRSED ColDate: 8/13/12 11:35 TotalSolid: 49.7 Sample Information: 20 spoons; under bridge, H2S slight DRY Weight Basis | | SD315 MILL CRK AT W.VALL L56024-2 SE FRSHWTRSED 8/13/12 12:20 47.5 20 spoons; lots of plant debris, hay, H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Methoxychlor | — | <MDL | U | 5.4 | 10.7 | ug/Kg | — | <MDL | U | 5.7 | 11.2 | ug/Kg |
| Toxaphene | — | <MDL | U | 22 | 107 | ug/Kg | — | <MDL | U | 23 | 112 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 2.6 | 10.7 | ug/Kg | — | <MDL | U | 2.7 | 11.2 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 5.4 | 10.7 | ug/Kg | — | <MDL | U | 5.7 | 11.2 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 5.4 | 10.7 | ug/Kg | — | <MDL | U | 5.7 | 11.2 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 2.6 | 10.7 | ug/Kg | — | <MDL | U | 2.7 | 11.2 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 2.6 | 10.7 | ug/Kg | — | <MDL | U | 2.7 | 11.2 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 2.6 | 10.7 | ug/Kg | 4 | <RDL | J | 2.7 | 11.2 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 2.6 | 10.7 | ug/Kg | 5.3 | <RDL | J | 2.7 | 11.2 | ug/Kg |
| Total Aroclors | — | <MDL | — | 5.4 | 10.7 | ug/Kg | 9.3 | <RDL | — | 2.7 | 11.2 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 5.7 | 11.2 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 10.7 | 10.7 | ug/Kg | — | <MDL | U | 11.2 | 11.2 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 16.1 | 16.1 | ug/Kg | — | <MDL | U | 16.8 | 16.8 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 11 | 21.5 | ug/Kg | — | <MDL,JG | UJ | 57 | 112 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 57 | 112 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 54 | 107 | ug/Kg | — | <MDL | U | 57 | 112 | ug/Kg |
| Acenaphthene | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Anthracene | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Benzo(a)anthracene | 43.1 | — | — | 11 | 21.5 | ug/Kg | 62.3 | — | — | 11 | 22.5 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 54 | 107 | ug/Kg | 85.1 | — | — | 11 | 22.5 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 140 | — | — | 54 | 107 | ug/Kg | 324 | — | — | 11 | 22.5 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 54 | 107 | ug/Kg | 39.4 | — | — | 11 | 22.5 | ug/Kg |
| Benzoic Acid | 1030 | — | — | 215 | 215 | ug/Kg | — | <MDL | U | 1120 | 1120 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | A315 | | | | | | SD315 | | | | | |
|----------------------------|--|----------|-----------------|------|-------|-------|--|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: A315 Descrip: HILL CREEK (MILL)/ Sample: L56024-1 Matrix: SE FRSHWTRSED ColDate: 8/13/12 11:35 TotalSolid: 49.7 Sample Information: 20 spoons; under bridge, H2S slight DRY Weight Basis | | | | | | Locator: SD315 Descrip: MILL CRK AT W.VALL Sample: L56024-2 Matrix: SE FRSHWTRSED ColDate: 8/13/12 12:20 TotalSolid: 47.5 Sample Information: 20 spoons; lots of plant debris, hay, H2S slight DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 26.8 | 26.8 | ug/Kg | — | <MDL | U | 28 | 28 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 16.1 | 16.1 | ug/Kg | 169 | — | — | 16.8 | 16.8 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 360 | 1720 | ug/Kg | — | <MDL | U | 380 | 1800 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 60 | — | — | 22 | 42.9 | ug/Kg | 484 | — | — | 23 | 44.8 | ug/Kg |
| Bisphenol A | — | <MDL | U | 360 | 1720 | ug/Kg | — | <MDL | U | 380 | 1800 | ug/Kg |
| Carbazole | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Chrysene | 51.1 | — | — | 11 | 21.5 | ug/Kg | 118 | — | — | 11 | 22.5 | ug/Kg |
| Coprostanol | — | <MDL | U | 1800 | 17200 | ug/Kg | — | <MDL | U | 1900 | 18000 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 54 | 107 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 22 | 42.9 | ug/Kg | — | <MDL | U | 23 | 44.8 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 21.5 | 21.5 | ug/Kg | 135 | — | — | 22.5 | 22.5 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 22 | 42.9 | ug/Kg | 23 | <RDL | J | 23 | 44.8 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 107 | 107 | ug/Kg | — | <MDL | U | 22.5 | 22.5 | ug/Kg |
| Fluoranthene | 99 | — | — | 11 | 21.5 | ug/Kg | 148 | — | — | 11 | 22.5 | ug/Kg |
| Fluorene | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.1 | 2.15 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 5.4 | 10.7 | ug/Kg | — | <MDL | U | 27 | 56.2 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 54 | 107 | ug/Kg | 45.7 | — | — | 11 | 22.5 | ug/Kg |
| Naphthalene | — | <MDL | U | 11 | 21.5 | ug/Kg | — | <MDL | U | 57 | 112 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 26.8 | 26.8 | ug/Kg | — | <MDL | U | 28 | 28 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 161 | 161 | ug/Kg | — | <MDL | U | 168 | 168 | ug/Kg |
| Phenanthrene | 58.6 | — | — | 11 | 21.5 | ug/Kg | 45.7 | — | — | 11 | 22.5 | ug/Kg |
| Phenol | — | <MDL | U | 54 | 161 | ug/Kg | — | <MDL | U | 57 | 168 | ug/Kg |
| Pyrene | 86.7 | — | — | 11 | 21.5 | ug/Kg | 156 | — | — | 11 | 22.5 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 160 | 1720 | ug/Kg | 180 | <RDL | J | 170 | 1800 | ug/Kg |
| Total HPAHS | 420 | — | — | 11 | 21.5 | ug/Kg | 978 | — | — | 11 | 22.5 | ug/Kg |
| Total LPAHs | 58.6 | — | — | 11 | 21.5 | ug/Kg | 45.7 | — | — | 11 | 22.5 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
|---|-------|----------|-----------------|-------|-------|-------|--|----------|-----------------|-------|-------|-------|
| Locator: FR315 | | | | | | | Locator: TS315 | | | | | |
| Descrip: MILL CRK ON FRONTA | | | | | | | Descrip: MILL CRK NEAR 1ST | | | | | |
| Sample: L56024-3 | | | | | | | Sample: L56024-4 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | Matrix: SE FRSHWTRSED | | | | | |
| ColDate: 8/29/12 11:30 | | | | | | | ColDate: 8/13/12 13:25 | | | | | |
| TotalSolid: 21.9 | | | | | | | TotalSolid: 20.4 | | | | | |
| Sample Information: 30 spoons; much canary grass, H2S moderate | | | | | | | Sample Information: 15 spoons; H2S moderate | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 31.8 | — | — | 4 | 8 | % | 51.1 | — | — | 3.2 | 6.4 | % |
| Gravel* | — | <MDL | U | 0.8 | 8 | % | — | <MDL | U | 0.6 | 6.4 | % |
| Sand* | 58.1 | — | — | 0.8 | 8 | % | 38.9 | — | — | 0.6 | 6.4 | % |
| Silt* | 7.9 | RDL | — | 4 | 8 | % | 22.3 | — | — | 3.2 | 6.4 | % |
| Clay* | 23.8 | — | — | 4 | 8 | % | 28.7 | — | — | 3.2 | 6.4 | % |
| p+0.00* | — | <MDL | U | 0.8 | 8 | % | 0.7 | <RDL | J | 0.6 | 6.4 | % |
| p+1.00* | — | <MDL | U | 0.8 | 8 | % | 1 | <RDL | J | 0.6 | 6.4 | % |
| p+10.0(equal/more than)* | 23.8 | — | — | 4 | 8 | % | 25.5 | — | — | 3.2 | 6.4 | % |
| p+2.00* | 1.4 | <RDL | J | 0.8 | 8 | % | 3.3 | <RDL | J | 0.6 | 6.4 | % |
| p+3.00* | 22.6 | — | — | 0.8 | 8 | % | 12 | — | — | 0.6 | 6.4 | % |
| p+4.00* | 34.1 | — | — | 0.8 | 8 | % | 22 | — | — | 0.6 | 6.4 | % |
| p+5.00* | 4 | <RDL | J | 4 | 8 | % | 12.8 | — | — | 3.2 | 6.4 | % |
| p+6.00* | 4 | <RDL | J | 4 | 8 | % | 3.2 | <RDL | J | 3.2 | 6.4 | % |
| p+7.00* | — | <MDL | U | 4 | 8 | % | 3.2 | <RDL | J | 3.2 | 6.4 | % |
| p+8.00* | — | <MDL | U | 4 | 8 | % | 3.2 | <RDL | J | 3.2 | 6.4 | % |
| p+9.00* | — | <MDL | U | 4 | 8 | % | 3.2 | <RDL | J | 3.2 | 6.4 | % |
| p-1.00* | — | <MDL | U | 0.8 | 8 | % | — | <MDL | U | 0.6 | 6.4 | % |
| p-2.00(less than)* | — | <MDL | U | 0.8 | 8 | % | — | <MDL | U | 0.6 | 6.4 | % |
| p-2.00* | — | <MDL | U | 0.8 | 8 | % | — | <MDL | U | 0.6 | 6.4 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 77.6 | JG | — | 5.5 | 22.6 | mg/Kg | 120 | JG | J | 5.9 | 23.8 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 21.9 | — | — | 0.005 | 0.01 | % | 20.4 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.71 | — | — | — | — | pH | 6.71 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 47000 | — | — | 5000 | 10300 | mg/Kg | 45300 | — | — | 3900 | 7790 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 13.9 | — | — | 2.3 | 11.3 | mg/Kg | 19.8 | — | — | 2.4 | 11.9 | mg/Kg |
| Cadmium, Extractable, SEM | 0.45 | <RDL | J | 0.18 | 0.904 | mg/Kg | 0.45 | <RDL | J | 0.19 | 0.951 | mg/Kg |
| Chromium, Extractable, SEM | 5.34 | — | — | 0.27 | 1.36 | mg/Kg | 5.25 | — | — | 0.28 | 1.43 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: FR315 | | | | | | | TS315 | | | | | |
|--|-------|----------|-----------------|--------|--------|-------|-------------------------|----------|-----------------|--------|--------|-------|
| Descrip: MILL CRK ON FRONTA | | | | | | | MILL CRK NEAR 1ST | | | | | |
| Sample: L56024-3 | | | | | | | L56024-4 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/29/12 11:30 | | | | | | | 8/13/12 13:25 | | | | | |
| TotalSolid: 21.9 | | | | | | | 20.4 | | | | | |
| Sample Information: 30 spoons; much canary grass, H2S moderate | | | | | | | 15 spoons; H2S moderate | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 16.4 | — | — | 0.36 | 1.81 | mg/Kg | 17.2 | — | — | 0.38 | 1.91 | mg/Kg |
| Lead, Extractable, SEM | 21 | — | — | 1.8 | 9.04 | mg/Kg | 15.5 | — | — | 1.9 | 9.51 | mg/Kg |
| Nickel, Extractable, SEM | 4.12 | — | — | 0.45 | 2.26 | mg/Kg | 7.06 | — | — | 0.48 | 2.38 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.36 | 1.81 | mg/Kg | — | <MDL | U | 0.38 | 1.91 | mg/Kg |
| Zinc, Extractable, SEM | 148 | — | — | 0.45 | 2.26 | mg/Kg | 124 | — | — | 0.48 | 2.38 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0045 | 0.0136 | mg/Kg | — | <MDL | U | 0.0048 | 0.0143 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 15.7 | — | — | 0.042 | 0.211 | mg/Kg | 26.4 | — | — | 0.048 | 0.238 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.394 | — | — | 0.021 | 0.105 | mg/Kg | 0.356 | — | — | 0.024 | 0.119 | mg/Kg |
| Chromium, Total, ICP-MS | 10.5 | — | — | 0.082 | 0.421 | mg/Kg | 13.4 | — | — | 0.38 | 1.9 | mg/Kg |
| Copper, Total, ICP-MS | 18.9 | — | — | 0.17 | 0.84 | mg/Kg | 23.3 | — | — | 0.78 | 3.8 | mg/Kg |
| Lead, Total, ICP-MS | 23.2 | — | — | 0.042 | 0.211 | mg/Kg | 15.4 | — | — | 0.048 | 0.238 | mg/Kg |
| Nickel, Total, ICP-MS | 8.26 | — | — | 0.042 | 0.211 | mg/Kg | 12.5 | — | — | 0.19 | 0.951 | mg/Kg |
| Silver, Total, ICP-MS | 0.112 | — | — | 0.017 | 0.084 | mg/Kg | 0.105 | — | — | 0.019 | 0.0951 | mg/Kg |
| Zinc, Total, ICP-MS | 152 | — | — | 0.21 | 1.05 | mg/Kg | 137 | — | — | 0.24 | 1.19 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.087 | <RDL | J | 0.022 | 0.224 | mg/Kg | 0.083 | <RDL | J | 0.025 | 0.244 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Aldrin | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Beta-BHC | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Delta-BHC | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Dieldrin | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Endosulfan I | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Endosulfan II | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Endrin | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
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| Locator: FR315 | | | | | | | TS315 | | | | | |
|--|-------|----------|-----------------|------|------|-------|-------------------------|----------|-----------------|------|------|-------|
| Descrip: MILL CRK ON FRONTA | | | | | | | MILL CRK NEAR 1ST | | | | | |
| Sample: L56024-3 | | | | | | | L56024-4 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/29/12 11:30 | | | | | | | 8/13/12 13:25 | | | | | |
| TotalSolid: 21.9 | | | | | | | 20.4 | | | | | |
| Sample Information: 30 spoons; much canary grass, H2S moderate | | | | | | | 15 spoons; H2S moderate | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Heptachlor | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| Methoxychlor | — | <MDL | U | 12 | 24.3 | ug/Kg | — | <MDL | U | 13 | 26.1 | ug/Kg |
| Toxaphene | — | <MDL | U | 50 | 243 | ug/Kg | — | <MDL | U | 54 | 261 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 2.4 | 4.89 | ug/Kg | — | <MDL | U | 2.6 | 5.25 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 5.9 | 24.3 | ug/Kg | — | <MDL | U | 6.4 | 26.1 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 12 | 24.3 | ug/Kg | — | <MDL | U | 13 | 26.1 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 12 | 24.3 | ug/Kg | — | <MDL | U | 13 | 26.1 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 5.9 | 24.3 | ug/Kg | — | <MDL | U | 6.4 | 26.1 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 5.9 | 24.3 | ug/Kg | — | <MDL | U | 6.4 | 26.1 | ug/Kg |
| Aroclor 1254 | 10 | <RDL | J | 5.9 | 24.3 | ug/Kg | — | <MDL | U | 6.4 | 26.1 | ug/Kg |
| Aroclor 1260 | 9.6 | <RDL | J | 5.9 | 24.3 | ug/Kg | — | <MDL | U | 6.4 | 26.1 | ug/Kg |
| Total Aroclors | 20 | <RDL | — | 5.9 | 24.3 | ug/Kg | — | <MDL | — | 13 | 26.1 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 5.9 | 12 | ug/Kg | — | <MDL | U | 6.4 | 12.8 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12 | 12 | ug/Kg | — | <MDL | U | 12.8 | 12.8 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 17.9 | 17.9 | ug/Kg | — | <MDL | U | 19.3 | 19.3 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 59 | 120 | ug/Kg | — | <MDL,JG | UJ | 64 | 128 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 59 | 120 | ug/Kg | — | <MDL | U | 64 | 128 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 12 | 24 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 59 | 120 | ug/Kg | — | <MDL | U | 64 | 128 | ug/Kg |
| Acenaphthene | — | <MDL | U | 12 | 24 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 12 | 24 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Anthracene | — | <MDL | U | 12 | 24 | ug/Kg | 14 | <RDL | J | 13 | 25.7 | ug/Kg |
| Benzo(a)anthracene | 102 | — | — | 12 | 24 | ug/Kg | 42.8 | — | — | 13 | 25.7 | ug/Kg |
| Benzo(a)pyrene | 152 | — | — | 59 | 120 | ug/Kg | 74 | <RDL | J | 64 | 128 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 424 | — | — | 59 | 120 | ug/Kg | 228 | — | — | 64 | 128 | ug/Kg |
| Benzo(g,h,i)perylene | 110 | <RDL | J | 59 | 120 | ug/Kg | — | <MDL | U | 64 | 128 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1200 | 1200 | ug/Kg | — | <MDL | U | 1280 | 1280 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Parameters | FR315 | | | | | | TS315 | | | | | |
|----------------------------|--|----------|-----------------|------|-------|-------|--|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: FR315 Descrip: MILL CRK ON FRONTA Sample: L56024-3 Matrix: SE FRSHWTRSED ColDate: 8/29/12 11:30 TotalSolid: 21.9 Sample Information: 30 spoons; much canary grass, H2S moderate DRY Weight Basis | | | | | | Locator: TS315 Descrip: MILL CRK NEAR 1ST Sample: L56024-4 Matrix: SE FRSHWTRSED ColDate: 8/13/12 13:25 TotalSolid: 20.4 Sample Information: 15 spoons; H2S moderate DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 30 | 30 | ug/Kg | — | <MDL | U | 32.2 | 32.2 | ug/Kg |
| Benzyl Butyl Phthalate | 270 | — | — | 17.9 | 17.9 | ug/Kg | 52.9 | — | — | 19.3 | 19.3 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 400 | 1920 | ug/Kg | — | <MDL | U | 430 | 2060 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 2060 | — | — | 24 | 47.9 | ug/Kg | 897 | — | — | 25 | 51.5 | ug/Kg |
| Bisphenol A | — | <MDL | U | 400 | 1920 | ug/Kg | — | <MDL | U | 430 | 2060 | ug/Kg |
| Carbazole | 21 | <RDL | J | 12 | 24 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Chrysene | 199 | — | — | 12 | 24 | ug/Kg | 100 | — | — | 13 | 25.7 | ug/Kg |
| Coprostanol | 2200 | <RDL,J | J | 2000 | 19200 | ug/Kg | 2400 | <RDL,J | J | 2100 | 20600 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 59 | 120 | ug/Kg | — | <MDL | U | 64 | 128 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 12 | 24 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 24 | 47.9 | ug/Kg | — | <MDL | U | 25 | 51.5 | ug/Kg |
| Dimethyl Phthalate | 159 | — | — | 24 | 24 | ug/Kg | — | <MDL | U | 25.7 | 25.7 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 24 | 47.9 | ug/Kg | — | <MDL | U | 25 | 51.5 | ug/Kg |
| Di-N-Octyl Phthalate | 252 | — | — | 120 | 120 | ug/Kg | — | <MDL | U | 128 | 128 | ug/Kg |
| Fluoranthene | 265 | — | — | 12 | 24 | ug/Kg | 108 | — | — | 13 | 25.7 | ug/Kg |
| Fluorene | — | <MDL | U | 12 | 24 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.2 | 2.4 | ug/Kg | — | <MDL | U | 1.3 | 2.57 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 30 | 59.8 | ug/Kg | — | <MDL | U | 32 | 64.2 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | 96 | <RDL | J | 59 | 120 | ug/Kg | — | <MDL | U | 64 | 128 | ug/Kg |
| Naphthalene | — | <MDL | U | 59 | 120 | ug/Kg | — | <MDL | U | 64 | 128 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 30 | 30 | ug/Kg | — | <MDL | U | 32.2 | 32.2 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 179 | 179 | ug/Kg | — | <MDL | U | 193 | 193 | ug/Kg |
| Phenanthrene | 94.5 | — | — | 12 | 24 | ug/Kg | 43 | — | — | 13 | 25.7 | ug/Kg |
| Phenol | — | <MDL | U | 59 | 179 | ug/Kg | — | <MDL | U | 64 | 193 | ug/Kg |
| Pyrene | 280 | — | — | 12 | 24 | ug/Kg | 111 | — | — | 13 | 25.7 | ug/Kg |
| Total 4-Nonylphenol | 370 | <RDL | J | 180 | 1920 | ug/Kg | 320 | <RDL | J | 190 | 2060 | ug/Kg |
| Total HPAHS | 1630 | — | — | 12 | 24 | ug/Kg | 663 | — | — | 13 | 25.7 | ug/Kg |
| Total LPAHS | 94.5 | — | — | 12 | 24 | ug/Kg | 57.2 | — | — | 13 | 25.7 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | ED315 | | | | | | PR315 | | | | | |
|-----------------------------|--|----------|-----------------|-------|-------|-------|-----------------------------|----------|-----------------|-------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Locator: | ED315 | | | | | | PR315 | | | | | |
| Descrip: | MILL CRK ON M ST N | | | | | | MILL CRK AT PEASLE | | | | | |
| Sample: | L56024-5 | | | | | | L56024-7 | | | | | |
| Matrix: | SE FRSHWTRSED | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: | 8/13/12 14:20 | | | | | | 8/14/12 10:50 | | | | | |
| TotalSolid: | 35.4 | | | | | | 67.8 | | | | | |
| Sample Information: | 15 spoons; much plant debris, H2S slight | | | | | | 20 spoons; difficult access | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 11.8 | — | — | 1.7 | 3.4 | % | 3.3 | — | J | 0.7 | 1.3 | % |
| Gravel* | 12.1 | — | — | 0.3 | 3.4 | % | 6.8 | — | — | 0.1 | 1.3 | % |
| Sand* | 66.1 | — | — | 0.3 | 3.4 | % | 92.6 | — | — | 0.1 | 1.3 | % |
| Silt* | 1.7 | <RDL | J | 1.7 | 3.4 | % | 0.7 | <RDL,J | J | 0.7 | 1.3 | % |
| Clay* | 10.2 | — | — | 1.7 | 3.4 | % | 2.6 | — | — | 0.7 | 1.3 | % |
| p+0.00* | 2.1 | <RDL | J | 0.3 | 3.4 | % | 9.2 | — | — | 0.1 | 1.3 | % |
| p+1.00* | 3.6 | — | — | 0.3 | 3.4 | % | 24.7 | — | — | 0.1 | 1.3 | % |
| p+10.0(equal/more than)* | 10.2 | — | — | 1.7 | 3.4 | % | 2.6 | — | — | 0.7 | 1.3 | % |
| p+2.00* | 14.9 | — | — | 0.3 | 3.4 | % | 38.7 | — | — | 0.1 | 1.3 | % |
| p+3.00* | 28 | — | — | 0.3 | 3.4 | % | 16.7 | — | — | 0.1 | 1.3 | % |
| p+4.00* | 17.5 | — | — | 0.3 | 3.4 | % | 3.3 | — | — | 0.1 | 1.3 | % |
| p+5.00* | 1.7 | <RDL | J | 1.7 | 3.4 | % | 0.7 | <RDL | J | 0.7 | 1.3 | % |
| p+6.00* | — | <MDL | U | 1.7 | 3.4 | % | — | <MDL | UJ | 0.7 | 1.3 | % |
| p+7.00* | — | <MDL | U | 1.7 | 3.4 | % | — | <MDL | UJ | 0.7 | 1.3 | % |
| p+8.00* | — | <MDL | U | 1.7 | 3.4 | % | — | <MDL | UJ | 0.7 | 1.3 | % |
| p+9.00* | — | <MDL | U | 1.7 | 3.4 | % | — | <MDL | U | 0.7 | 1.3 | % |
| p-1.00* | 4.7 | — | — | 0.3 | 3.4 | % | 4.3 | — | — | 0.1 | 1.3 | % |
| p-2.00(less than)* | 6.9 | — | — | 0.3 | 3.4 | % | 2 | — | — | 0.1 | 1.3 | % |
| p-2.00* | 0.5 | <RDL | J | 0.3 | 3.4 | % | 0.5 | <RDL | J | 0.1 | 1.3 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 112 | JG | — | 3.4 | 13.2 | mg/Kg | 2.96 | JG | — | 0.37 | 1.46 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 35.4 | — | — | 0.005 | 0.01 | % | 67.8 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.75 | — | — | — | — | pH | 7.32 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 25800 | — | — | 2600 | 5200 | mg/Kg | 9590 | — | — | 590 | 1170 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 7.57 | — | — | 1.3 | 6.61 | mg/Kg | 0.88 | <RDL | J | 0.72 | 3.64 | mg/Kg |
| Cadmium, Extractable, SEM | 0.23 | <RDL | J | 0.1 | 0.528 | mg/Kg | 0.16 | <RDL | J | 0.059 | 0.292 | mg/Kg |
| Chromium, Extractable, SEM | 1.89 | — | — | 0.16 | 0.794 | mg/Kg | 3.05 | — | — | 0.087 | 0.438 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: ED315 | | | | | | | PR315 | | | | | |
|--|-------|----------|-----------------|--------|---------|-------|-----------------------------|----------|-----------------|--------|---------|-------|
| Descrip: MILL CRK ON M ST N | | | | | | | MILL CRK AT PEASLE | | | | | |
| Sample: L56024-5 | | | | | | | L56024-7 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/13/12 14:20 | | | | | | | 8/14/12 10:50 | | | | | |
| TotalSolid: 35.4 | | | | | | | 67.8 | | | | | |
| Sample Information: 15 spoons; much plant debris, H2S slight | | | | | | | 20 spoons; difficult access | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 6.64 | — | — | 0.21 | 1.06 | mg/Kg | 12.3 | — | — | 0.12 | 0.583 | mg/Kg |
| Lead, Extractable, SEM | 7.82 | — | — | 1 | 5.28 | mg/Kg | 8.81 | — | — | 0.59 | 2.92 | mg/Kg |
| Nickel, Extractable, SEM | 2.17 | — | — | 0.27 | 1.32 | mg/Kg | 2.48 | — | — | 0.15 | 0.729 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.21 | 1.06 | mg/Kg | — | <MDL | U | 0.12 | 0.583 | mg/Kg |
| Zinc, Extractable, SEM | 62.7 | — | — | 0.27 | 1.32 | mg/Kg | 71.5 | — | — | 0.15 | 0.729 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0027 | 0.00794 | mg/Kg | — | <MDL | U | 0.0015 | 0.00438 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 16.6 | — | — | 0.031 | 0.16 | mg/Kg | 4.13 | J | J | 0.024 | 0.117 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.333 | — | — | 0.016 | 0.0802 | mg/Kg | 0.268 | — | — | 0.012 | 0.0583 | mg/Kg |
| Chromium, Total, ICP-MS | 9.29 | — | — | 0.065 | 0.319 | mg/Kg | 32.9 | — | — | 0.19 | 0.932 | mg/Kg |
| Copper, Total, ICP-MS | 11.6 | — | — | 0.13 | 0.641 | mg/Kg | 36.7 | — | J | 0.37 | 1.86 | mg/Kg |
| Lead, Total, ICP-MS | 11.6 | — | — | 0.031 | 0.16 | mg/Kg | 13.9 | J | J | 0.024 | 0.117 | mg/Kg |
| Nickel, Total, ICP-MS | 7.2 | — | — | 0.031 | 0.16 | mg/Kg | 28.9 | — | — | 0.093 | 0.466 | mg/Kg |
| Silver, Total, ICP-MS | 0.048 | <RDL | J | 0.013 | 0.0641 | mg/Kg | 0.0549 | — | — | 0.0093 | 0.0466 | mg/Kg |
| Zinc, Total, ICP-MS | 102 | — | — | 0.16 | 0.802 | mg/Kg | 167 | — | J | 0.47 | 2.33 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.042 | <RDL | J | 0.014 | 0.136 | mg/Kg | 0.028 | <RDL | J | 0.0071 | 0.0708 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 1.5 | 3.02 | ug/Kg | 0.83 | <RDL | J | 0.78 | 1.58 | ug/Kg |
| Aldrin | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Beta-BHC | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Delta-BHC | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Dieldrin | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Endosulfan I | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Endosulfan II | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Endrin | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: ED315 Descrip: MILL CRK ON M ST N Sample: L56024-5 Matrix: SE FRSHWTRSED ColDate: 8/13/12 14:20 TotalSolid: 35.4 Sample Information: 15 spoons; much plant debris, H2S slight DRY Weight Basis | | Locator: PR315 Descrip: MILL CRK AT PEASLE Sample: L56024-7 Matrix: SE FRSHWTRSED ColDate: 8/14/12 10:50 TotalSolid: 67.8 Sample Information: 20 spoons; difficult access DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Methoxychlor | — | <MDL | U | 7.6 | 15.1 | ug/Kg | — | <MDL | U | 4 | 7.86 | ug/Kg |
| Toxaphene | — | <MDL | U | 31 | 151 | ug/Kg | — | <MDL | U | 16 | 78.6 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.5 | 3.02 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 3.7 | 15.1 | ug/Kg | — | <MDL | U | 1.9 | 7.86 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 7.6 | 15.1 | ug/Kg | — | <MDL | U | 4 | 7.86 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 7.6 | 15.1 | ug/Kg | — | <MDL | U | 4 | 7.86 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 3.7 | 15.1 | ug/Kg | 4.7 | <RDL | J | 1.9 | 7.86 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 3.7 | 15.1 | ug/Kg | — | <MDL | U | 1.9 | 7.86 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 3.7 | 15.1 | ug/Kg | 8.75 | — | — | 1.9 | 7.86 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 3.7 | 15.1 | ug/Kg | — | <MDL | U | 1.9 | 7.86 | ug/Kg |
| Total Aroclors | — | <MDL | — | 7.6 | 15.1 | ug/Kg | 13.5 | — | — | 1.9 | 7.86 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 5.6 | 11.3 | ug/Kg | — | <MDL | U | 4 | 7.86 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 11.3 | 11.3 | ug/Kg | — | <MDL | U | 7.86 | 7.86 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 16.9 | 16.9 | ug/Kg | — | <MDL | U | 11.8 | 11.8 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 56 | 113 | ug/Kg | — | <MDL,JG | UJ | 40 | 78.6 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 56 | 113 | ug/Kg | — | <MDL | U | 40 | 78.6 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 11 | 22.6 | ug/Kg | — | <MDL | U | 7.8 | 15.8 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 56 | 113 | ug/Kg | — | <MDL | U | 40 | 78.6 | ug/Kg |
| Acenaphthene | — | <MDL | U | 11 | 22.6 | ug/Kg | — | <MDL | U | 7.8 | 15.8 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 11 | 22.6 | ug/Kg | — | <MDL | U | 7.8 | 15.8 | ug/Kg |
| Anthracene | 11 | <RDL | J | 11 | 22.6 | ug/Kg | 12 | <RDL | J | 7.8 | 15.8 | ug/Kg |
| Benzo(a)anthracene | 39 | — | — | 11 | 22.6 | ug/Kg | 81.1 | — | — | 7.8 | 15.8 | ug/Kg |
| Benzo(a)pyrene | 59 | <RDL | J | 56 | 113 | ug/Kg | 75 | <RDL | J | 40 | 78.6 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 139 | — | — | 56 | 113 | ug/Kg | 192 | — | — | 40 | 78.6 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 56 | 113 | ug/Kg | 41 | <RDL | J | 40 | 78.6 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1130 | 1130 | ug/Kg | — | <MDL | U | 786 | 786 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | ED315 | | | | | | PR315 | | | | | |
|----------------------------|--|----------|-----------------|------|-------|-------|---|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: ED315 Descrip: MILL CRK ON M ST N Sample: L56024-5 Matrix: SE FRSHWTRSED ColDate: 8/13/12 14:20 TotalSolid: 35.4 Sample Information: 15 spoons; much plant debris, H2S slight DRY Weight Basis | | | | | | Locator: PR315 Descrip: MILL CRK AT PEASLE Sample: L56024-7 Matrix: SE FRSHWTRSED ColDate: 8/14/12 10:50 TotalSolid: 67.8 Sample Information: 20 spoons; difficult access DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 28.2 | 28.2 | ug/Kg | — | <MDL | U | 19.6 | 19.6 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 16.9 | 16.9 | ug/Kg | 1320 | — | — | 11.8 | 11.8 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 370 | 1810 | ug/Kg | — | <MDL | U | 270 | 1260 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 927 | — | — | 23 | 45.2 | ug/Kg | 1760 | — | — | 16 | 31.4 | ug/Kg |
| Bisphenol A | — | <MDL | U | 370 | 1810 | ug/Kg | — | <MDL | U | 270 | 1260 | ug/Kg |
| Carbazole | — | <MDL | U | 11 | 22.6 | ug/Kg | 12 | <RDL | J | 7.8 | 15.8 | ug/Kg |
| Chrysene | 78.2 | — | — | 11 | 22.6 | ug/Kg | 131 | — | — | 7.8 | 15.8 | ug/Kg |
| Coprostanol | 4000 | <RDL,J | J | 1900 | 18100 | ug/Kg | — | <MDL | U | 1300 | 12600 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 56 | 113 | ug/Kg | — | <MDL | U | 40 | 78.6 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 11 | 22.6 | ug/Kg | — | <MDL | U | 7.8 | 15.8 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 23 | 45.2 | ug/Kg | — | <MDL | U | 16 | 31.4 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 22.6 | 22.6 | ug/Kg | — | <MDL | U | 15.8 | 15.8 | ug/Kg |
| Di-N-Butyl Phthalate | 34 | <RDL | J | 23 | 45.2 | ug/Kg | 51.3 | — | — | 16 | 31.4 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 113 | 113 | ug/Kg | — | <MDL | U | 78.6 | 78.6 | ug/Kg |
| Fluoranthene | 92.7 | — | — | 11 | 22.6 | ug/Kg | 167 | — | — | 7.8 | 15.8 | ug/Kg |
| Fluorene | 20 | <RDL | J | 11 | 22.6 | ug/Kg | — | <MDL | U | 7.8 | 15.8 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.1 | 2.26 | ug/Kg | — | <MDL | U | 0.78 | 1.58 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 28 | 56.5 | ug/Kg | — | <MDL | U | 19 | 39.4 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 56 | 113 | ug/Kg | — | <MDL | U | 40 | 78.6 | ug/Kg |
| Naphthalene | — | <MDL | U | 56 | 113 | ug/Kg | — | <MDL | U | 40 | 78.6 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 28.2 | 28.2 | ug/Kg | — | <MDL | U | 19.6 | 19.6 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 169 | 169 | ug/Kg | — | <MDL | U | 118 | 118 | ug/Kg |
| Phenanthrene | 89.5 | — | — | 11 | 22.6 | ug/Kg | 72.1 | — | — | 7.8 | 15.8 | ug/Kg |
| Phenol | — | <MDL | U | 56 | 169 | ug/Kg | — | <MDL | U | 40 | 118 | ug/Kg |
| Pyrene | 128 | — | — | 11 | 22.6 | ug/Kg | 243 | — | — | 7.8 | 15.8 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 170 | 1810 | ug/Kg | 490 | <RDL | J | 120 | 1260 | ug/Kg |
| Total HPAHS | 536 | — | — | 11 | 22.6 | ug/Kg | 931 | — | — | 7.8 | 15.8 | ug/Kg |
| Total LPAHS | 121 | — | — | 11 | 22.6 | ug/Kg | 84.1 | — | — | 7.8 | 15.8 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: PC315 Descrip: MILL CRK ON PEASLE Sample: L56024-8 Matrix: SE FRSHWTRSED ColDate: 8/14/12 11:40 TotalSolid: 75.1 Sample Information: 25 spoons; substrate mostly cobbles DRY Weight Basis | | UH315 MILL CRK AT 321ST L56024-9 SE FRSHWTRSED 8/14/12 12:25 15.2 15 spoons; U.S. side of road, H2S moderate DRY Weight Basis | | | | | | | | | | |
|---|-------|--|-----------------|-------|-------|-------|--------|----------|-----------------|-------|-------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 2.6 | — | — | 0.6 | 1.3 | % | 48.3 | — | — | 4.4 | 8.8 | % |
| Gravel* | 57.2 | — | — | 0.1 | 1.3 | % | 10.9 | — | — | 0.9 | 8.8 | % |
| Sand* | 41.4 | — | — | 0.1 | 1.3 | % | 41 | — | — | 0.9 | 8.8 | % |
| Silt* | 0.6 | <RDL | J | 0.6 | 1.3 | % | 26.3 | — | — | 4.4 | 8.8 | % |
| Clay* | 1.9 | — | — | 0.6 | 1.3 | % | 21.9 | — | — | 4.4 | 8.8 | % |
| p+0.00* | 11.5 | — | — | 0.1 | 1.3 | % | 3.4 | <RDL | J | 0.9 | 8.8 | % |
| p+1.00* | 10.1 | — | — | 0.1 | 1.3 | % | 5.3 | <RDL | J | 0.9 | 8.8 | % |
| p+10.0(equal/more than)* | 1.9 | — | — | 0.6 | 1.3 | % | 21.9 | — | — | 4.4 | 8.8 | % |
| p+2.00* | 13.6 | — | — | 0.1 | 1.3 | % | 8.2 | <RDL | J | 0.9 | 8.8 | % |
| p+3.00* | 4.8 | — | — | 0.1 | 1.3 | % | 11 | — | — | 0.9 | 8.8 | % |
| p+4.00* | 1.4 | — | — | 0.1 | 1.3 | % | 13.1 | — | — | 0.9 | 8.8 | % |
| p+5.00* | — | <MDL | U | 0.6 | 1.3 | % | 13.2 | — | — | 4.4 | 8.8 | % |
| p+6.00* | — | <MDL | U | 0.6 | 1.3 | % | 4.4 | <RDL | J | 4.4 | 8.8 | % |
| p+7.00* | 0.6 | <RDL | J | 0.6 | 1.3 | % | 4.4 | <RDL | J | 4.4 | 8.8 | % |
| p+8.00* | — | <MDL | U | 0.6 | 1.3 | % | 4.4 | <RDL | J | 4.4 | 8.8 | % |
| p+9.00* | — | <MDL | U | 0.6 | 1.3 | % | — | <MDL | U | 4.4 | 8.8 | % |
| p-1.00* | 20.4 | — | — | 0.1 | 1.3 | % | 3.2 | <RDL | J | 0.9 | 8.8 | % |
| p-2.00(less than)* | 28.7 | — | — | 0.1 | 1.3 | % | 3.7 | <RDL | J | 0.9 | 8.8 | % |
| p-2.00* | 8.1 | — | — | 0.1 | 1.3 | % | 3.9 | <RDL | J | 0.9 | 8.8 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | U | 0.32 | 1.28 | mg/Kg | 200 | JG | — | 7.9 | 31.8 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 75.1 | — | — | 0.005 | 0.01 | % | 15.2 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 7.08 | — | — | — | — | pH | 6.45 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 17700 | — | — | 2400 | 4930 | mg/Kg | 123000 | — | — | 11000 | 21600 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 1.5 | <RDL | J | 0.64 | 3.21 | mg/Kg | 9.2 | <RDL | J | 3.2 | 15.9 | mg/Kg |
| Cadmium, Extractable, SEM | 0.088 | <RDL | J | 0.052 | 0.257 | mg/Kg | 0.79 | <RDL | J | 0.26 | 1.27 | mg/Kg |
| Chromium, Extractable, SEM | 0.551 | — | — | 0.077 | 0.385 | mg/Kg | 1.8 | <RDL | J | 0.38 | 1.91 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: PC315 Descrip: MILL CRK ON PEASLE Sample: L56024-8 Matrix: SE FRSHWTRSED ColDate: 8/14/12 11:40 TotalSolid: 75.1 Sample Information: 25 spoons; substrate mostly cobbles DRY Weight Basis | | UH315 MILL CRK AT 321ST L56024-9 SE FRSHWTRSED 8/14/12 12:25 15.2 15 spoons; U.S. side of road, H2S moderate DRY Weight Basis | | | | | | | | | | |
|---|--------|--|-----------------|--------|---------|-------|-------|----------|-----------------|--------|--------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 1.13 | — | — | 0.1 | 0.514 | mg/Kg | 16.8 | — | — | 0.51 | 2.54 | mg/Kg |
| Lead, Extractable, SEM | 5.17 | — | — | 0.52 | 2.57 | mg/Kg | 45.9 | — | — | 2.6 | 12.7 | mg/Kg |
| Nickel, Extractable, SEM | 1.24 | — | — | 0.13 | 0.642 | mg/Kg | 6.16 | — | — | 0.64 | 3.18 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.1 | 0.514 | mg/Kg | — | <MDL | U | 0.51 | 2.54 | mg/Kg |
| Zinc, Extractable, SEM | 28.2 | — | — | 0.13 | 0.642 | mg/Kg | 130 | — | — | 0.64 | 3.18 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | 0.0029 | <RDL | J | 0.0013 | 0.00385 | mg/Kg | — | <MDL | U | 0.0064 | 0.0191 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 6.58 | — | — | 0.021 | 0.109 | mg/Kg | 16.9 | — | — | 0.064 | 0.324 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.119 | — | — | 0.011 | 0.0547 | mg/Kg | 0.684 | — | — | 0.032 | 0.162 | mg/Kg |
| Chromium, Total, ICP-MS | 20.9 | — | — | 0.17 | 0.875 | mg/Kg | 22.4 | — | — | 0.52 | 2.59 | mg/Kg |
| Copper, Total, ICP-MS | 8.26 | — | — | 0.35 | 1.74 | mg/Kg | 25.1 | — | — | 1.1 | 5.18 | mg/Kg |
| Lead, Total, ICP-MS | 10 | — | — | 0.021 | 0.109 | mg/Kg | 48.9 | — | — | 0.064 | 0.324 | mg/Kg |
| Nickel, Total, ICP-MS | 22.2 | — | — | 0.088 | 0.438 | mg/Kg | 27.9 | — | — | 0.26 | 1.3 | mg/Kg |
| Silver, Total, ICP-MS | 0.028 | <RDL | J | 0.0088 | 0.0438 | mg/Kg | 0.13 | <RDL | J | 0.026 | 0.13 | mg/Kg |
| Zinc, Total, ICP-MS | 74.8 | — | — | 0.44 | 2.18 | mg/Kg | 180 | — | — | 1.3 | 6.47 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.015 | <RDL | J | 0.0065 | 0.0659 | mg/Kg | 0.13 | <RDL | J | 0.032 | 0.318 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Aldrin | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Beta-BHC | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Delta-BHC | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Dieldrin | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Endosulfan I | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Endosulfan II | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Endrin | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
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| Locator: PC315 Descrip: MILL CRK ON PEASLE Sample: L56024-8 Matrix: SE FRSHWTRSED ColDate: 8/14/12 11:40 TotalSolid: 75.1 Sample Information: 25 spoons; substrate mostly cobbles DRY Weight Basis | | UH315 MILL CRK AT 321ST L56024-9 SE FRSHWTRSED 8/14/12 12:25 15.2 15 spoons; U.S. side of road, H2S moderate DRY Weight Basis | | | | | | | | | | |
|---|-------|--|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Heptachlor | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| Methoxychlor | — | <MDL | U | 3.6 | 7.1 | ug/Kg | — | <MDL | U | 18 | 35.1 | ug/Kg |
| Toxaphene | — | <MDL | U | 15 | 71 | ug/Kg | — | <MDL | U | 72 | 351 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 3.5 | 7.04 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 1.7 | 7.1 | ug/Kg | — | <MDL | U | 8.6 | 35.1 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 3.6 | 7.1 | ug/Kg | — | <MDL | U | 18 | 35.1 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 3.6 | 7.1 | ug/Kg | — | <MDL | U | 18 | 35.1 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 1.7 | 7.1 | ug/Kg | — | <MDL | U | 8.6 | 35.1 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 1.7 | 7.1 | ug/Kg | — | <MDL | U | 8.6 | 35.1 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 1.7 | 7.1 | ug/Kg | 18 | <RDL | J | 8.6 | 35.1 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 1.7 | 7.1 | ug/Kg | 13 | <RDL | J | 8.6 | 35.1 | ug/Kg |
| Total Aroclors | — | <MDL | — | 3.6 | 7.1 | ug/Kg | 31 | <RDL | — | 8.6 | 35.1 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 3.6 | 7.1 | ug/Kg | — | <MDL | U | 5.9 | 11.7 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 7.1 | 7.1 | ug/Kg | — | <MDL | U | 11.7 | 11.7 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 10.7 | 10.7 | ug/Kg | — | <MDL | U | 17.6 | 17.6 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 36 | 71 | ug/Kg | — | <MDL,JG | UJ | 59 | 117 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 36 | 71 | ug/Kg | — | <MDL | U | 59 | 117 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 12 | 23.4 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 36 | 71 | ug/Kg | 862 | — | — | 290 | 585 | ug/Kg |
| Acenaphthene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 12 | 23.4 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 12 | 23.4 | ug/Kg |
| Anthracene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 12 | 23.4 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | 56.6 | — | — | 12 | 23.4 | ug/Kg |
| Benzo(a)pyrene | 9.6 | <RDL | J | 7.1 | 14.2 | ug/Kg | 66 | <RDL | J | 59 | 117 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 23.3 | — | — | 7.1 | 14.2 | ug/Kg | 209 | — | — | 59 | 117 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 59 | 117 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 710 | 710 | ug/Kg | — | <MDL | U | 1170 | 1170 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
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| Parameters | PC315 | | | | | | UH315 | | | | | |
|----------------------------|---|----------|-----------------|------|------|-------|---|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: PC315 Descrip: MILL CRK ON PEASLE Sample: L56024-8 Matrix: SE FRSHWTRSED ColDate: 8/14/12 11:40 TotalSolid: 75.1 Sample Information: 25 spoons; substrate mostly cobbles DRY Weight Basis | | | | | | Locator: UH315 Descrip: MILL CRK AT 321ST Sample: L56024-9 Matrix: SE FRSHWTRSED ColDate: 8/14/12 12:25 TotalSolid: 15.2 Sample Information: 15 spoons; U.S. side of road, H2S moderate DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 17.7 | 17.7 | ug/Kg | — | <MDL | U | 29.2 | 29.2 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 10.7 | 10.7 | ug/Kg | — | <MDL | U | 17.6 | 17.6 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 240 | 1140 | ug/Kg | — | <MDL | U | 390 | 1870 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 39.4 | — | — | 15 | 28.4 | ug/Kg | 335 | — | — | 24 | 46.8 | ug/Kg |
| Bisphenol A | — | <MDL | U | 240 | 1140 | ug/Kg | — | <MDL | U | 390 | 1870 | ug/Kg |
| Carbazole | — | <MDL | U | 7.1 | 14.2 | ug/Kg | 13 | <RDL | J | 12 | 23.4 | ug/Kg |
| Chrysene | 9.2 | <RDL | J | 7.1 | 14.2 | ug/Kg | 105 | — | — | 12 | 23.4 | ug/Kg |
| Coprostanol | — | <MDL | U | 240 | 1140 | ug/Kg | — | <MDL | U | 1900 | 18700 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 59 | 117 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 12 | 23.4 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 15 | 28.4 | ug/Kg | — | <MDL | U | 24 | 46.8 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 14.2 | 14.2 | ug/Kg | — | <MDL | U | 23.4 | 23.4 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 15 | 28.4 | ug/Kg | — | <MDL | U | 24 | 46.8 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 14.2 | 14.2 | ug/Kg | — | <MDL | U | 117 | 117 | ug/Kg |
| Fluoranthene | 15.6 | — | — | 7.1 | 14.2 | ug/Kg | 175 | — | — | 12 | 23.4 | ug/Kg |
| Fluorene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 12 | 23.4 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 0.71 | 1.42 | ug/Kg | — | <MDL | U | 1.2 | 2.34 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 17 | 35.6 | ug/Kg | — | <MDL | U | 29 | 58.5 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | — | <MDL | U | 59 | 117 | ug/Kg |
| Naphthalene | — | <MDL | U | 36 | 71 | ug/Kg | — | <MDL | U | 59 | 117 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 17.7 | 17.7 | ug/Kg | — | <MDL | U | 29.2 | 29.2 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 107 | 107 | ug/Kg | — | <MDL | U | 176 | 176 | ug/Kg |
| Phenanthrene | — | <MDL | U | 7.1 | 14.2 | ug/Kg | 57.1 | — | — | 12 | 23.4 | ug/Kg |
| Phenol | — | <MDL | U | 36 | 107 | ug/Kg | — | <MDL | U | 59 | 176 | ug/Kg |
| Pyrene | 15.8 | — | — | 7.1 | 14.2 | ug/Kg | 168 | — | — | 12 | 23.4 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 110 | 1140 | ug/Kg | — | <MDL | U | 180 | 1870 | ug/Kg |
| Total HPAHS | 73.5 | — | — | 7.1 | 14.2 | ug/Kg | 779 | — | — | 12 | 23.4 | ug/Kg |
| Total LPAHS | — | <MDL | — | 36 | 71 | ug/Kg | 57.1 | — | — | 12 | 23.4 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
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| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
|--|-------|----------|-----------------|-------|-------|-------|--|----------|-----------------|-------|-------|-------|
| Locator: IT318 | | | | | | | Locator: DT318 | | | | | |
| Descrip: EMILL CRK NEAR 723 | | | | | | | Descrip: EMILL CRK 196TH AN | | | | | |
| Sample: L56024-11 | | | | | | | Sample: L56024-12 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | Matrix: SE FRSHWTRSED | | | | | |
| ColDate: 8/30/12 12:15 | | | | | | | ColDate: 8/27/12 14:20 | | | | | |
| TotalSolid: 34 | | | | | | | TotalSolid: 35.6 | | | | | |
| Sample Information: 15 spoons; D.S. side of trestle, strange odor | | | | | | | Sample Information: 20 spoons; strange creosote-like odor | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 33.9 | — | — | 1.4 | 2.8 | % | 53 | — | — | 2.1 | 4.2 | % |
| Gravel* | 0.3 | <RDL | J | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| Sand* | 56 | — | — | 0.3 | 2.8 | % | 36.6 | — | — | 0.4 | 4.2 | % |
| Silt* | 22.6 | — | — | 1.4 | 2.8 | % | 29.7 | — | — | 2.1 | 4.2 | % |
| Clay* | 11.3 | — | — | 1.4 | 2.8 | % | 23.3 | — | — | 2.1 | 4.2 | % |
| p+0.00* | 0.8 | <RDL | J | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| p+1.00* | 0.9 | <RDL | J | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| p+10.0(equal/more than)* | 11.3 | — | — | 1.4 | 2.8 | % | 19.1 | — | — | 2.1 | 4.2 | % |
| p+2.00* | 5 | — | — | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| p+3.00* | 23.8 | — | — | 0.3 | 2.8 | % | 4.4 | — | — | 0.4 | 4.2 | % |
| p+4.00* | 25.5 | — | — | 0.3 | 2.8 | % | 32.3 | — | — | 0.4 | 4.2 | % |
| p+5.00* | 9.9 | — | — | 1.4 | 2.8 | % | 17 | — | — | 2.1 | 4.2 | % |
| p+6.00* | 2.8 | RDL | — | 1.4 | 2.8 | % | 2.1 | <RDL | J | 2.1 | 4.2 | % |
| p+7.00* | 4.2 | — | — | 1.4 | 2.8 | % | 6.4 | — | — | 2.1 | 4.2 | % |
| p+8.00* | 5.7 | — | — | 1.4 | 2.8 | % | 4.2 | RDL | — | 2.1 | 4.2 | % |
| p+9.00* | — | <MDL | U | 1.4 | 2.8 | % | 4.2 | RDL | — | 2.1 | 4.2 | % |
| p-1.00* | 0.3 | <RDL | J | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| p-2.00(less than)* | — | <MDL | U | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| p-2.00* | — | <MDL | U | 0.3 | 2.8 | % | — | <MDL | U | 0.4 | 4.2 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 84.4 | JG | — | 7.1 | 28 | mg/Kg | 90.4 | JG | — | 3.4 | 13 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 34 | — | — | 0.005 | 0.01 | % | 35.6 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 7.04 | — | — | — | — | pH | 6.44 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 34400 | — | — | 3200 | 6620 | mg/Kg | 29500 | — | — | 3700 | 7110 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 11.3 | — | — | 1.4 | 7 | mg/Kg | 10 | — | — | 1.3 | 6.52 | mg/Kg |
| Cadmium, Extractable, SEM | 3.41 | — | — | 0.11 | 0.562 | mg/Kg | 1.47 | — | — | 0.1 | 0.522 | mg/Kg |
| Chromium, Extractable, SEM | 19.2 | — | — | 0.17 | 0.841 | mg/Kg | 9.3 | — | — | 0.16 | 0.781 | mg/Kg |

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| Locator: | | IT318 | | | | | DT318 | | | | | | |
|--|-------|---|-----------------|--------|---------|-------|---------------------------------------|----------|-----------------|--------|---------|-------|--|
| Descrip: | | EMILL CRK NEAR 723 | | | | | EMILL CRK 196TH AN | | | | | | |
| Sample: | | L56024-11 | | | | | L56024-12 | | | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | | |
| ColDate: | | 8/30/12 12:15 | | | | | 8/27/12 14:20 | | | | | | |
| TotalSolid: | | 34 | | | | | 35.6 | | | | | | |
| Sample Information: | | 15 spoons; D.S. side of trestle, strange odor | | | | | 20 spoons; strange creosote-like odor | | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units | |
| Copper, Extractable, SEM | 31.8 | — | — | 0.22 | 1.12 | mg/Kg | 31.2 | — | — | 0.21 | 1.04 | mg/Kg | |
| Lead, Extractable, SEM | 35.9 | — | — | 1.1 | 5.62 | mg/Kg | 29.5 | — | — | 1 | 5.22 | mg/Kg | |
| Nickel, Extractable, SEM | 6.24 | — | — | 0.28 | 1.4 | mg/Kg | 4.63 | — | — | 0.26 | 1.3 | mg/Kg | |
| Silver, Extractable, SEM | 0.25 | <RDL | J | 0.22 | 1.12 | mg/Kg | — | <MDL | U | 0.21 | 1.04 | mg/Kg | |
| Zinc, Extractable, SEM | 368 | — | — | 0.28 | 1.4 | mg/Kg | 284 | — | — | 0.26 | 1.3 | mg/Kg | |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0028 | 0.00841 | mg/Kg | — | <MDL | U | 0.0026 | 0.00781 | mg/Kg | |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 17.6 | — | — | 0.028 | 0.141 | mg/Kg | 14.1 | — | — | 0.026 | 0.132 | mg/Kg | |
| Cadmium, Total, ICP-MS | 3.94 | — | — | 0.014 | 0.0703 | mg/Kg | 1.57 | — | — | 0.013 | 0.0663 | mg/Kg | |
| Chromium, Total, ICP-MS | 40.9 | — | — | 0.23 | 1.13 | mg/Kg | 27.2 | — | — | 0.21 | 1.06 | mg/Kg | |
| Copper, Total, ICP-MS | 47.6 | — | — | 0.44 | 2.25 | mg/Kg | 39.3 | — | — | 0.42 | 2.12 | mg/Kg | |
| Lead, Total, ICP-MS | 49.7 | — | — | 0.028 | 0.141 | mg/Kg | 34.8 | — | — | 0.026 | 0.132 | mg/Kg | |
| Nickel, Total, ICP-MS | 19.4 | — | — | 0.11 | 0.565 | mg/Kg | 13.2 | — | — | 0.11 | 0.528 | mg/Kg | |
| Silver, Total, ICP-MS | 0.227 | — | — | 0.011 | 0.0565 | mg/Kg | 0.167 | — | — | 0.011 | 0.0528 | mg/Kg | |
| Zinc, Total, ICP-MS | 532 | — | — | 0.56 | 2.82 | mg/Kg | 365 | — | — | 0.53 | 2.65 | mg/Kg | |
| MT SW846 7471B | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.11 | <RDL | J | 0.014 | 0.141 | mg/Kg | 0.093 | <RDL | J | 0.013 | 0.136 | mg/Kg | |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | |
| 4,4'-DDD | 2.6 | <RDL | J | 1.6 | 3.15 | ug/Kg | 2.6 | <RDL | J | 1.5 | 3.01 | ug/Kg | |
| 4,4'-DDE | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| 4,4'-DDT | 2.5 | <RDL | J | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Aldrin | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | UJ | 1.5 | 3.01 | ug/Kg | |
| Alpha-BHC | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Alpha-Chlordane | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Beta-BHC | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Delta-BHC | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Dieldrin | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Endosulfan I | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Endosulfan II | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Endosulfan Sulfate | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |
| Endrin | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg | |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: IT318 | | | | | | | DT318 | | | | | |
|---|-------|----------|-----------------|------|------|-------|---------------------------------------|----------|-----------------|------|------|-------|
| Descrip: EMILL CRK NEAR 723 | | | | | | | EMILL CRK 196TH AN | | | | | |
| Sample: L56024-11 | | | | | | | L56024-12 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/30/12 12:15 | | | | | | | 8/27/12 14:20 | | | | | |
| TotalSolid: 34 | | | | | | | 35.6 | | | | | |
| Sample Information: 15 spoons; D.S. side of trestle, strange odor | | | | | | | 20 spoons; strange creosote-like odor | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg |
| Methoxychlor | — | <MDL | U | 7.9 | 15.7 | ug/Kg | — | <MDL | U | 7.6 | 15 | ug/Kg |
| Toxaphene | — | <MDL | U | 32 | 157 | ug/Kg | — | <MDL | U | 31 | 150 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.6 | 3.15 | ug/Kg | — | <MDL | U | 1.5 | 3.01 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 3.8 | 15.7 | ug/Kg | — | <MDL | U | 3.7 | 15 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 7.9 | 15.7 | ug/Kg | — | <MDL | U | 7.6 | 15 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 7.9 | 15.7 | ug/Kg | — | <MDL | U | 7.6 | 15 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 3.8 | 15.7 | ug/Kg | — | <MDL | U | 3.7 | 15 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 3.8 | 15.7 | ug/Kg | — | <MDL | U | 3.7 | 15 | ug/Kg |
| Aroclor 1254 | 35 | — | — | 3.8 | 15.7 | ug/Kg | 38.2 | — | — | 3.7 | 15 | ug/Kg |
| Aroclor 1260 | 41.2 | — | — | 3.8 | 15.7 | ug/Kg | 36.2 | — | — | 3.7 | 15 | ug/Kg |
| Total Aroclors | 76.2 | — | — | 3.8 | 15.7 | ug/Kg | 74.4 | — | — | 3.7 | 15 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 5.9 | 11.8 | ug/Kg | — | <MDL | U | 5.6 | 11.2 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 11.8 | 11.8 | ug/Kg | — | <MDL | U | 11.2 | 11.2 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 17.6 | 17.6 | ug/Kg | — | <MDL | U | 16.9 | 16.9 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 59 | 118 | ug/Kg | — | <MDL | UJ | 56 | 112 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 59 | 118 | ug/Kg | — | <MDL | U | 56 | 112 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 12 | 23.5 | ug/Kg | — | <MDL | UJ | 11 | 22.5 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 59 | 118 | ug/Kg | — | <MDL | U | 56 | 112 | ug/Kg |
| Acenaphthene | 13 | <RDL | J | 12 | 23.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 12 | 23.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Anthracene | 46.5 | — | — | 12 | 23.5 | ug/Kg | 37.4 | — | — | 11 | 22.5 | ug/Kg |
| Benzo(a)anthracene | 371 | — | — | 12 | 23.5 | ug/Kg | 284 | — | — | 11 | 22.5 | ug/Kg |
| Benzo(a)pyrene | 571 | — | — | 59 | 118 | ug/Kg | 463 | — | — | 56 | 112 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 1690 | — | — | 59 | 118 | ug/Kg | 1430 | — | — | 56 | 112 | ug/Kg |
| Benzo(g,h,i)perylene | 287 | — | — | 59 | 118 | ug/Kg | 312 | — | — | 56 | 112 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1180 | 1180 | ug/Kg | — | <MDL | U | 1120 | 1120 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | IT318 | | | | | | DT318 | | | | | |
|----------------------------|--|----------|-----------------|------|-------|-------|--|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: IT318 | | | | | | Locator: DT318 | | | | | |
| | Descrip: EMILL CRK NEAR 723 | | | | | | Descrip: EMILL CRK 196TH AN | | | | | |
| | Sample: L56024-11 | | | | | | Sample: L56024-12 | | | | | |
| | Matrix: SE FRSHWTRSED | | | | | | Matrix: SE FRSHWTRSED | | | | | |
| | ColDate: 8/30/12 12:15 | | | | | | ColDate: 8/27/12 14:20 | | | | | |
| | TotalSolid: 34 | | | | | | TotalSolid: 35.6 | | | | | |
| | Sample Information: 15 spoons; D.S. side of trestle, strange odor | | | | | | Sample Information: 20 spoons; strange creosote-like odor | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 29.4 | 29.4 | ug/Kg | — | <MDL | U | 28.1 | 28.1 | ug/Kg |
| Benzyl Butyl Phthalate | 143 | — | — | 17.6 | 17.6 | ug/Kg | 153 | — | — | 16.9 | 16.9 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 380 | 1880 | ug/Kg | — | <MDL | U | 370 | 1800 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 1930 | — | — | 24 | 47.1 | ug/Kg | 2390 | — | — | 22 | 44.9 | ug/Kg |
| Bisphenol A | — | <MDL | U | 380 | 1880 | ug/Kg | — | <MDL | U | 370 | 1800 | ug/Kg |
| Carbazole | 62.6 | — | — | 12 | 23.5 | ug/Kg | 45.2 | — | — | 11 | 22.5 | ug/Kg |
| Chrysene | 738 | — | — | 12 | 23.5 | ug/Kg | 570 | — | — | 11 | 22.5 | ug/Kg |
| Coprostanol | — | <MDL | U | 1900 | 18800 | ug/Kg | — | <MDL | U | 1900 | 18000 | ug/Kg |
| Dibenzo(a,h)anthracene | 91 | <RDL | J | 59 | 118 | ug/Kg | 84 | <RDL | J | 56 | 112 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 12 | 23.5 | ug/Kg | — | <MDL | U | 11 | 22.5 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 24 | 47.1 | ug/Kg | — | <MDL | U | 22 | 44.9 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 23.5 | 23.5 | ug/Kg | — | <MDL | U | 22.5 | 22.5 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 24 | 47.1 | ug/Kg | — | <MDL | U | 22 | 44.9 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 118 | 118 | ug/Kg | 245 | — | — | 112 | 112 | ug/Kg |
| Fluoranthene | 962 | — | — | 12 | 23.5 | ug/Kg | 638 | — | — | 11 | 22.5 | ug/Kg |
| Fluorene | 18 | <RDL | J | 12 | 23.5 | ug/Kg | 14 | <RDL | J | 11 | 22.5 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.2 | 2.35 | ug/Kg | — | <MDL | U | 1.1 | 2.25 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 29 | 58.8 | ug/Kg | — | <MDL | U | 28 | 56.2 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | 318 | — | — | 59 | 118 | ug/Kg | 315 | — | — | 56 | 112 | ug/Kg |
| Naphthalene | — | <MDL | U | 59 | 118 | ug/Kg | — | <MDL | U | 56 | 112 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 29.4 | 29.4 | ug/Kg | — | <MDL | U | 28.1 | 28.1 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 176 | 176 | ug/Kg | — | <MDL | U | 169 | 169 | ug/Kg |
| Phenanthrene | 303 | — | — | 12 | 23.5 | ug/Kg | 196 | — | — | 11 | 22.5 | ug/Kg |
| Phenol | — | <MDL | U | 59 | 176 | ug/Kg | — | <MDL | UJ | 56 | 169 | ug/Kg |
| Pyrene | 1170 | — | — | 12 | 23.5 | ug/Kg | 778 | — | — | 11 | 22.5 | ug/Kg |
| Total 4-Nonylphenol | 1200 | <RDL | J | 180 | 1880 | ug/Kg | 760 | <RDL,J | J | 170 | 1800 | ug/Kg |
| Total HPAHS | 6200 | — | — | 12 | 23.5 | ug/Kg | 4870 | — | — | 11 | 22.5 | ug/Kg |
| Total LPAHS | 380 | — | — | 12 | 23.5 | ug/Kg | 247 | — | — | 11 | 22.5 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: FS318 | | | | | | | CS318 | | | | | |
|--|-------|----------|-----------------|-------|------|-------|--|----------|-----------------|-------|-------|-------|
| Descrip: EMILL CRK NEAR 72N | | | | | | | EMILL CRK NEAR 222 | | | | | |
| Sample: L56024-13 | | | | | | | L56024-14 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/28/12 15:00 | | | | | | | 8/28/12 14:40 | | | | | |
| TotalSolid: 49.5 | | | | | | | 32.7 | | | | | |
| Sample Information: 15 spoons; nearly stagnant, H2S moderate | | | | | | | 15 spoons; nearly stagnant, H2S moderate | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 21.1 | — | — | 1.2 | 2.4 | % | 61 | — | — | 2.3 | 4.5 | % |
| Gravel* | 0.3 | <RDL | J | 0.2 | 2.4 | % | 0.7 | <RDL | J | 0.5 | 4.5 | % |
| Sand* | 70.2 | — | — | 0.2 | 2.4 | % | 35.1 | — | — | 0.5 | 4.5 | % |
| Silt* | 14.1 | — | — | 1.2 | 2.4 | % | 45.2 | — | — | 2.3 | 4.5 | % |
| Clay* | 7 | — | — | 1.2 | 2.4 | % | 15.8 | — | — | 2.3 | 4.5 | % |
| p+0.00* | 0.8 | <RDL | J | 0.2 | 2.4 | % | 0.5 | <RDL | J | 0.5 | 4.5 | % |
| p+1.00* | 3.2 | — | — | 0.2 | 2.4 | % | 1.4 | <RDL | J | 0.5 | 4.5 | % |
| p+10.0(equal/more than)* | 7 | — | — | 1.2 | 2.4 | % | 15.8 | — | — | 2.3 | 4.5 | % |
| p+2.00* | 15.7 | — | — | 0.2 | 2.4 | % | 8.9 | — | — | 0.5 | 4.5 | % |
| p+3.00* | 34.1 | — | — | 0.2 | 2.4 | % | 11.9 | — | — | 0.5 | 4.5 | % |
| p+4.00* | 16.4 | — | — | 0.2 | 2.4 | % | 12.4 | — | — | 0.5 | 4.5 | % |
| p+5.00* | 5.9 | — | — | 1.2 | 2.4 | % | 18.1 | — | — | 2.3 | 4.5 | % |
| p+6.00* | 3.5 | — | — | 1.2 | 2.4 | % | 11.3 | — | — | 2.3 | 4.5 | % |
| p+7.00* | 2.3 | RDL | — | 1.2 | 2.4 | % | 11.3 | — | — | 2.3 | 4.5 | % |
| p+8.00* | 2.3 | RDL | — | 1.2 | 2.4 | % | 4.5 | RDL | — | 2.3 | 4.5 | % |
| p+9.00* | — | <MDL | U | 1.2 | 2.4 | % | — | <MDL | U | 2.3 | 4.5 | % |
| p-1.00* | 0.3 | <RDL | J | 0.2 | 2.4 | % | 0.7 | <RDL | J | 0.5 | 4.5 | % |
| p-2.00(less than)* | — | <MDL | U | 0.2 | 2.4 | % | — | <MDL | U | 0.5 | 4.5 | % |
| p-2.00* | — | <MDL | U | 0.2 | 2.4 | % | — | <MDL | U | 0.5 | 4.5 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 151 | JG | — | 5.1 | 20 | mg/Kg | 225 | JG | — | 7.3 | 29.9 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 49.5 | — | — | 0.005 | 0.01 | % | 32.7 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.56 | — | — | — | — | pH | 6.4 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 17100 | — | — | 2000 | 4060 | mg/Kg | 50800 | — | — | 4900 | 9790 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 2.6 | <RDL | J | 0.99 | 4.99 | mg/Kg | 6.7 | <RDL | J | 1.5 | 7.46 | mg/Kg |
| Cadmium, Extractable, SEM | 0.705 | — | — | 0.081 | 0.4 | mg/Kg | 1.65 | — | — | 0.12 | 0.599 | mg/Kg |
| Chromium, Extractable, SEM | 2.75 | — | — | 0.12 | 0.6 | mg/Kg | 16.8 | — | — | 0.18 | 0.896 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: FS318 Descrip: EMILL CRK NEAR 72N Sample: L56024-13 Matrix: SE FRSHWTRSED ColDate: 8/28/12 15:00 TotalSolid: 49.5 Sample Information: 15 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | CS318 EMILL CRK NEAR 222 L56024-14 SE FRSHWTRSED 8/28/12 14:40 32.7 15 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | | | | | | | | | |
|---|-------|--|-----------------|--------|--------|-------|-------|----------|-----------------|-------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 9.43 | — | — | 0.16 | 0.798 | mg/Kg | 43.1 | — | — | 0.24 | 1.2 | mg/Kg |
| Lead, Extractable, SEM | 13.2 | — | — | 0.81 | 4 | mg/Kg | 57.8 | — | — | 1.2 | 5.99 | mg/Kg |
| Nickel, Extractable, SEM | 2.28 | — | — | 0.2 | 0.998 | mg/Kg | 6.15 | — | — | 0.3 | 1.5 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.16 | 0.798 | mg/Kg | — | <MDL | U | 0.24 | 1.2 | mg/Kg |
| Zinc, Extractable, SEM | 105 | — | — | 0.2 | 0.998 | mg/Kg | 413 | — | — | 0.3 | 1.5 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.002 | 0.006 | mg/Kg | — | <MDL | U | 0.003 | 0.00896 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 7.58 | — | — | 0.02 | 0.0976 | mg/Kg | 10.2 | — | — | 0.03 | 0.149 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.885 | — | — | 0.0097 | 0.0489 | mg/Kg | 1.17 | — | — | 0.015 | 0.0746 | mg/Kg |
| Chromium, Total, ICP-MS | 16.9 | — | — | 0.16 | 0.782 | mg/Kg | 29 | — | — | 0.24 | 1.19 | mg/Kg |
| Copper, Total, ICP-MS | 28.1 | — | — | 0.3 | 1.56 | mg/Kg | 52.9 | — | — | 0.49 | 2.39 | mg/Kg |
| Lead, Total, ICP-MS | 21 | — | — | 0.02 | 0.0976 | mg/Kg | 64.2 | — | — | 0.03 | 0.149 | mg/Kg |
| Nickel, Total, ICP-MS | 15.3 | — | — | 0.079 | 0.39 | mg/Kg | 18.2 | — | — | 0.12 | 0.596 | mg/Kg |
| Silver, Total, ICP-MS | 0.143 | — | — | 0.0079 | 0.039 | mg/Kg | 0.169 | — | — | 0.012 | 0.0596 | mg/Kg |
| Zinc, Total, ICP-MS | 189 | — | — | 0.38 | 1.95 | mg/Kg | 446 | — | — | 0.61 | 2.98 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.063 | <RDL | J | 0.0099 | 0.0998 | mg/Kg | 0.11 | <RDL | J | 0.015 | 0.146 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | 7.17 | — | — | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| 4,4'-DDE | 3 | <RDL | J | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Aldrin | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Alpha-Chlordane | 3.2 | <RDL | J | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Beta-BHC | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Delta-BHC | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Dieldrin | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Endosulfan I | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Endosulfan II | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Endrin | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |

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King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: FS318 Descrip: EMILL CRK NEAR 72N Sample: L56024-13 Matrix: SE FRSHWTRSED ColDate: 8/28/12 15:00 TotalSolid: 49.5 Sample Information: 15 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | CS318 EMILL CRK NEAR 222 L56024-14 SE FRSHWTRSED 8/28/12 14:40 32.7 15 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | | | | | | | | | |
|---|-------|--|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Heptachlor | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Methoxychlor | — | <MDL | U | 11 | 21.6 | ug/Kg | — | <MDL | U | 40 | 81.7 | ug/Kg |
| Toxaphene | — | <MDL | U | 42 | 216 | ug/Kg | — | <MDL | U | 160 | 817 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 2.2 | 4.3 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 2.6 | 10.8 | ug/Kg | — | <MDL | U | 4 | 16.3 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 5.5 | 10.8 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 5.5 | 10.8 | ug/Kg | — | <MDL | U | 8.3 | 16.3 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 2.6 | 10.8 | ug/Kg | 8.9 | <RDL | J | 4 | 16.3 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 2.6 | 10.8 | ug/Kg | — | <MDL | U | 4 | 16.3 | ug/Kg |
| Aroclor 1254 | 32.3 | — | — | 2.6 | 10.8 | ug/Kg | 70 | <RDL | J | 20 | 81.7 | ug/Kg |
| Aroclor 1260 | 19.5 | — | — | 2.6 | 10.8 | ug/Kg | 49 | <RDL | J | 20 | 81.7 | ug/Kg |
| Total Aroclors | 51.8 | — | — | 2.6 | 10.8 | ug/Kg | 128 | — | — | 4 | 16.3 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 5.5 | 10.8 | ug/Kg | — | <MDL | U | 6.1 | 12.2 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 10.8 | 10.8 | ug/Kg | — | <MDL | U | 12.2 | 12.2 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 16.2 | 16.2 | ug/Kg | — | <MDL | U | 18.3 | 18.3 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 55 | 108 | ug/Kg | — | <MDL,JG | UJ | 61 | 122 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 55 | 108 | ug/Kg | — | <MDL | U | 61 | 122 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 11 | 21.6 | ug/Kg | — | <MDL | U | 12 | 24.5 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 55 | 108 | ug/Kg | 123 | — | — | 61 | 122 | ug/Kg |
| Acenaphthene | — | <MDL | U | 11 | 21.6 | ug/Kg | 29.8 | — | — | 12 | 24.5 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 11 | 21.6 | ug/Kg | — | <MDL | U | 12 | 24.5 | ug/Kg |
| Anthracene | 20 | <RDL | J | 11 | 21.6 | ug/Kg | 65.4 | — | — | 12 | 24.5 | ug/Kg |
| Benzo(a)anthracene | 170 | — | — | 11 | 21.6 | ug/Kg | 471 | — | J | 12 | 24.5 | ug/Kg |
| Benzo(a)pyrene | 232 | — | — | 55 | 108 | ug/Kg | 618 | — | — | 61 | 122 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 705 | — | — | 55 | 108 | ug/Kg | 1910 | — | — | 61 | 122 | ug/Kg |
| Benzo(g,h,i)perylene | 140 | — | — | 55 | 108 | ug/Kg | 267 | — | — | 61 | 122 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1080 | 1080 | ug/Kg | — | <MDL | U | 1220 | 1220 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | FS318 | | | | | | CS318 | | | | | |
|----------------------------|--|----------|-----------------|------|-------|-------|--|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: FS318 | | | | | | CS318 | | | | | |
| | Descrip: EMILL CRK NEAR 72N | | | | | | EMILL CRK NEAR 222 | | | | | |
| | Sample: L56024-13 | | | | | | L56024-14 | | | | | |
| | Matrix: SE FRSHWTRSED | | | | | | SE FRSHWTRSED | | | | | |
| | ColDate: 8/28/12 15:00 | | | | | | 8/28/12 14:40 | | | | | |
| | TotalSolid: 49.5 | | | | | | 32.7 | | | | | |
| | Sample Information: 15 spoons; nearly stagnant, H2S moderate | | | | | | 15 spoons; nearly stagnant, H2S moderate | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 26.9 | 26.9 | ug/Kg | — | <MDL | U | 30.6 | 30.6 | ug/Kg |
| Benzyl Butyl Phthalate | 192 | — | — | 16.2 | 16.2 | ug/Kg | 376 | — | J | 18.3 | 18.3 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 360 | 1720 | ug/Kg | — | <MDL | U | 2000 | 9790 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 1710 | — | — | 22 | 43 | ug/Kg | 8010 | — | J | 24 | 48.9 | ug/Kg |
| Bisphenol A | — | <MDL | U | 360 | 1720 | ug/Kg | — | <MDL | U | 400 | 1960 | ug/Kg |
| Carbazole | 25.3 | — | — | 11 | 21.6 | ug/Kg | 93.9 | — | — | 12 | 24.5 | ug/Kg |
| Chrysene | 317 | — | — | 11 | 21.6 | ug/Kg | 924 | — | J | 12 | 24.5 | ug/Kg |
| Coprostanol | — | <MDL | U | 1800 | 17200 | ug/Kg | — | <MDL | U | 2000 | 19600 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 55 | 108 | ug/Kg | 80 | <RDL | J | 61 | 122 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 11 | 21.6 | ug/Kg | 23 | <RDL | J | 12 | 24.5 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 22 | 43 | ug/Kg | — | <MDL | U | 24 | 48.9 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 21.6 | 21.6 | ug/Kg | 29.7 | — | — | 24.5 | 24.5 | ug/Kg |
| Di-N-Butyl Phthalate | 28 | <RDL | J | 22 | 43 | ug/Kg | — | <MDL | U | 24 | 48.9 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 108 | 108 | ug/Kg | — | <MDL | U | 122 | 122 | ug/Kg |
| Fluoranthene | 453 | — | — | 11 | 21.6 | ug/Kg | 1130 | — | — | 12 | 24.5 | ug/Kg |
| Fluorene | 12 | <RDL | J | 11 | 21.6 | ug/Kg | 39.4 | — | — | 12 | 24.5 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.1 | 2.16 | ug/Kg | — | <MDL | U | 1.2 | 2.45 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 26 | 53.9 | ug/Kg | — | <MDL | U | 31 | 61.2 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | 142 | — | — | 55 | 108 | ug/Kg | 250 | — | — | 61 | 122 | ug/Kg |
| Naphthalene | — | <MDL | U | 55 | 108 | ug/Kg | — | <MDL | U | 61 | 122 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 26.9 | 26.9 | ug/Kg | — | <MDL | U | 30.6 | 30.6 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 162 | 162 | ug/Kg | — | <MDL | U | 183 | 183 | ug/Kg |
| Phenanthrene | 146 | — | — | 11 | 21.6 | ug/Kg | 462 | — | — | 12 | 24.5 | ug/Kg |
| Phenol | — | <MDL | U | 55 | 162 | ug/Kg | — | <MDL | U | 61 | 183 | ug/Kg |
| Pyrene | 541 | — | — | 11 | 21.6 | ug/Kg | 2150 | — | J | 12 | 24.5 | ug/Kg |
| Total 4-Nonylphenol | 1760 | — | J | 160 | 1720 | ug/Kg | 3240 | — | J | 180 | 1960 | ug/Kg |
| Total HPAHS | 2700 | — | — | 11 | 21.6 | ug/Kg | 7800 | — | — | 12 | 24.5 | ug/Kg |
| Total LPAHS | 178 | — | — | 11 | 21.6 | ug/Kg | 596 | — | — | 12 | 24.5 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: AA318 Descrip: EMILL CRK NOVAK LN Sample: L56024-15 Matrix: SE FRSHWTRSED ColDate: 8/28/12 12:00 TotalSolid: 36.7 Sample Information: 22 spoons; H2S slight DRY Weight Basis | | EP318 EMILL CRK AT EARTH L56024-16 SE FRSHWTRSED 8/28/12 10:00 31.6 20 spoons; under ped bridge DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|-------|-------|-------|-------|----------|-----------------|-------|-------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 41.3 | — | — | 2.1 | 4.1 | % | 20 | — | — | 2 | 4 | % |
| Gravel* | 3 | <RDL | J | 0.4 | 4.1 | % | 32.9 | — | — | 0.4 | 4 | % |
| Sand* | 48.4 | — | — | 0.4 | 4.1 | % | 45.4 | — | — | 0.4 | 4 | % |
| Silt* | 28.9 | — | — | 2.1 | 4.1 | % | 8 | — | — | 2 | 4 | % |
| Clay* | 12.4 | — | — | 2.1 | 4.1 | % | 12 | — | — | 2 | 4 | % |
| p+0.00* | 3.2 | <RDL | J | 0.4 | 4.1 | % | 1.8 | <RDL | J | 0.4 | 4 | % |
| p+1.00* | 4.7 | — | — | 0.4 | 4.1 | % | 3.7 | <RDL | J | 0.4 | 4 | % |
| p+10.0(equal/more than)* | 12.4 | — | — | 2.1 | 4.1 | % | 12 | — | — | 2 | 4 | % |
| p+2.00* | 10.2 | — | — | 0.4 | 4.1 | % | 14 | — | — | 0.4 | 4 | % |
| p+3.00* | 13.7 | — | — | 0.4 | 4.1 | % | 16.1 | — | — | 0.4 | 4 | % |
| p+4.00* | 16.6 | — | — | 0.4 | 4.1 | % | 9.9 | — | — | 0.4 | 4 | % |
| p+5.00* | 18.6 | — | — | 2.1 | 4.1 | % | 6 | — | — | 2 | 4 | % |
| p+6.00* | 4.1 | RDL | — | 2.1 | 4.1 | % | 2 | <RDL | J | 2 | 4 | % |
| p+7.00* | 4.1 | RDL | — | 2.1 | 4.1 | % | — | <MDL | U | 2 | 4 | % |
| p+8.00* | 2.1 | <RDL | J | 2.1 | 4.1 | % | — | <MDL | U | 2 | 4 | % |
| p+9.00* | — | <MDL | U | 2.1 | 4.1 | % | — | <MDL | U | 2 | 4 | % |
| p-1.00* | 1.8 | <RDL | J | 0.4 | 4.1 | % | 3.3 | <RDL | J | 0.4 | 4 | % |
| p-2.00(less than)* | — | <MDL | U | 0.4 | 4.1 | % | 27.7 | — | — | 0.4 | 4 | % |
| p-2.00* | 1.2 | <RDL | J | 0.4 | 4.1 | % | 1.9 | <RDL | J | 0.4 | 4 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 27.2 | JG | — | 3.3 | 12.7 | mg/Kg | 1.1 | <RDL,JG | J | 0.73 | 2.96 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 36.7 | — | — | 0.005 | 0.01 | % | 31.6 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.68 | — | — | — | — | pH | 7.15 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 62900 | — | — | 7100 | 14300 | mg/Kg | 42100 | — | — | 5700 | 11600 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 1.9 | <RDL | J | 1.3 | 6.35 | mg/Kg | 2.1 | <RDL | J | 1.5 | 7.41 | mg/Kg |
| Cadmium, Extractable, SEM | 0.616 | — | — | 0.1 | 0.507 | mg/Kg | 0.28 | <RDL | J | 0.12 | 0.592 | mg/Kg |
| Chromium, Extractable, SEM | 5.12 | — | — | 0.15 | 0.76 | mg/Kg | 4.68 | — | — | 0.18 | 0.889 | mg/Kg |

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King County Environmental Lab Analytical Report

| Locator: AA318 Descrip: EMILL CRK NOVAK LN Sample: L56024-15 Matrix: SE FRSHWTRSED ColDate: 8/28/12 12:00 TotalSolid: 36.7 Sample Information: 22 spoons; H2S slight DRY Weight Basis | | EP318 EMILL CRK AT EARTH L56024-16 SE FRSHWTRSED 8/28/12 10:00 31.6 20 spoons; under ped bridge DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|--------|--------|-------|-------|----------|-----------------|-------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 38.1 | — | — | 0.2 | 1.01 | mg/Kg | 19.6 | — | — | 0.24 | 1.18 | mg/Kg |
| Lead, Extractable, SEM | 54 | — | — | 1 | 5.07 | mg/Kg | 32.3 | — | — | 1.2 | 5.92 | mg/Kg |
| Nickel, Extractable, SEM | 4.85 | — | — | 0.25 | 1.27 | mg/Kg | 4.46 | — | — | 0.3 | 1.48 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.2 | 1.01 | mg/Kg | — | <MDL | U | 0.24 | 1.18 | mg/Kg |
| Zinc, Extractable, SEM | 275 | — | — | 0.25 | 1.27 | mg/Kg | 162 | — | — | 0.3 | 1.48 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0025 | 0.0076 | mg/Kg | — | <MDL | U | 0.003 | 0.00889 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.84 | — | — | 0.027 | 0.134 | mg/Kg | 2.92 | — | — | 0.03 | 0.151 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.678 | — | — | 0.013 | 0.0673 | mg/Kg | 0.307 | — | — | 0.015 | 0.0753 | mg/Kg |
| Chromium, Total, ICP-MS | 25.1 | — | — | 0.22 | 1.08 | mg/Kg | 12.6 | — | — | 0.24 | 1.21 | mg/Kg |
| Copper, Total, ICP-MS | 52.6 | — | — | 0.44 | 2.15 | mg/Kg | 27.5 | — | — | 0.47 | 2.41 | mg/Kg |
| Lead, Total, ICP-MS | 66.5 | — | — | 0.027 | 0.134 | mg/Kg | 26.9 | — | — | 0.03 | 0.151 | mg/Kg |
| Nickel, Total, ICP-MS | 18.1 | — | — | 0.11 | 0.537 | mg/Kg | 11 | — | — | 0.12 | 0.604 | mg/Kg |
| Silver, Total, ICP-MS | 0.137 | — | — | 0.011 | 0.0537 | mg/Kg | 0.051 | <RDL | J | 0.012 | 0.0604 | mg/Kg |
| Zinc, Total, ICP-MS | 401 | — | — | 0.54 | 2.69 | mg/Kg | 187 | — | — | 0.6 | 3.02 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.1 | <RDL | J | 0.013 | 0.131 | mg/Kg | 0.082 | <RDL | J | 0.016 | 0.155 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Aldrin | — | <MDL | UJ | 7.4 | 14.5 | ug/Kg | — | <MDL | UJ | 1.7 | 3.39 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Beta-BHC | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Delta-BHC | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Dieldrin | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Endosulfan I | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Endosulfan II | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Endrin | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |

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| Locator: AA318 Descrip: EMILL CRK NOVAK LN Sample: L56024-15 Matrix: SE FRSHWTRSED ColDate: 8/28/12 12:00 TotalSolid: 36.7 Sample Information: 22 spoons; H2S slight DRY Weight Basis | | EP318 EMILL CRK AT EARTH L56024-16 SE FRSHWTRSED 8/28/12 10:00 31.6 20 spoons; under ped bridge DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Heptachlor | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| Methoxychlor | — | <MDL | U | 35 | 72.8 | ug/Kg | — | <MDL | U | 8.5 | 16.9 | ug/Kg |
| Toxaphene | — | <MDL | U | 140 | 728 | ug/Kg | — | <MDL | U | 35 | 169 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 1.7 | 3.39 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 3.5 | 14.5 | ug/Kg | — | <MDL | U | 4.1 | 16.9 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 8.5 | 16.9 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 7.4 | 14.5 | ug/Kg | — | <MDL | U | 8.5 | 16.9 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 3.5 | 14.5 | ug/Kg | — | <MDL | U | 4.1 | 16.9 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 3.5 | 14.5 | ug/Kg | — | <MDL | U | 4.1 | 16.9 | ug/Kg |
| Aroclor 1254 | 17.2 | — | — | 3.5 | 14.5 | ug/Kg | — | <MDL | U | 4.1 | 16.9 | ug/Kg |
| Aroclor 1260 | 13 | <RDL | J | 3.5 | 14.5 | ug/Kg | — | <MDL | U | 4.1 | 16.9 | ug/Kg |
| Total Aroclors | 29.7 | — | — | 3.5 | 14.5 | ug/Kg | — | <MDL | — | 8.5 | 16.9 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 5.4 | 10.9 | ug/Kg | — | <MDL | U | 6.3 | 12.7 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 10.9 | 10.9 | ug/Kg | — | <MDL | U | 12.7 | 12.7 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 16.3 | 16.3 | ug/Kg | — | <MDL | U | 19 | 19 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL | UJ | 54 | 109 | ug/Kg | — | <MDL | UJ | 63 | 127 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 54 | 109 | ug/Kg | — | <MDL | U | 63 | 127 | ug/Kg |
| 2-Methylphenol | — | <MDL | UJ | 11 | 21.8 | ug/Kg | — | <MDL | UJ | 13 | 25.3 | ug/Kg |
| 3-,4-Methylphenol | 283 | — | — | 54 | 109 | ug/Kg | 135 | — | — | 63 | 127 | ug/Kg |
| Acenaphthene | — | <MDL | U | 11 | 21.8 | ug/Kg | — | <MDL | U | 13 | 25.3 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 11 | 21.8 | ug/Kg | — | <MDL | U | 13 | 25.3 | ug/Kg |
| Anthracene | 106 | — | — | 11 | 21.8 | ug/Kg | 98.7 | — | — | 13 | 25.3 | ug/Kg |
| Benzo(a)anthracene | 790 | — | J | 54 | 109 | ug/Kg | 611 | — | H | 13 | 25.3 | ug/Kg |
| Benzo(a)pyrene | 1030 | — | — | 54 | 109 | ug/Kg | 636 | — | — | 63 | 127 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 2830 | — | — | 54 | 109 | ug/Kg | 1580 | — | — | 63 | 127 | ug/Kg |
| Benzo(g,h,i)perylene | 351 | — | — | 54 | 109 | ug/Kg | 206 | — | — | 63 | 127 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1090 | 1090 | ug/Kg | — | <MDL | U | 1270 | 1270 | ug/Kg |

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Lab Project: 423589-330-4

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|--|-------|---|-----------------|------|-------|-------|-------|----------|-----------------|------|-------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Benzyl Alcohol | — | <MDL | U | 27.2 | 27.2 | ug/Kg | — | <MDL | U | 31.6 | 31.6 | ug/Kg |
| Benzyl Butyl Phthalate | 460 | — | J | 81.7 | 81.7 | ug/Kg | 75.9 | — | J | 19 | 19 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 1800 | 8720 | ug/Kg | — | <MDL | U | 410 | 2030 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 6080 | — | J | 110 | 218 | ug/Kg | 1720 | — | J | 25 | 50.6 | ug/Kg |
| Bisphenol A | — | <MDL | U | 350 | 1740 | ug/Kg | — | <MDL | U | 410 | 2030 | ug/Kg |
| Carbazole | 132 | — | — | 11 | 21.8 | ug/Kg | 110 | — | — | 13 | 25.3 | ug/Kg |
| Chrysene | 1240 | — | J | 54 | 109 | ug/Kg | 915 | — | J | 13 | 25.3 | ug/Kg |
| Coprostanol | — | <MDL | U | 1800 | 17400 | ug/Kg | — | <MDL | U | 2100 | 20300 | ug/Kg |
| Dibenzo(a,h)anthracene | 115 | — | U | 54 | 109 | ug/Kg | 66 | <RDL | J | 63 | 127 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 11 | 21.8 | ug/Kg | 16 | <RDL | J | 13 | 25.3 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 22 | 43.6 | ug/Kg | — | <MDL | U | 25 | 50.6 | ug/Kg |
| Dimethyl Phthalate | 45 | — | — | 21.8 | 21.8 | ug/Kg | — | <MDL | U | 25.3 | 25.3 | ug/Kg |
| Di-N-Butyl Phthalate | 81.7 | — | — | 22 | 43.6 | ug/Kg | — | <MDL | U | 25 | 50.6 | ug/Kg |
| Di-N-Octyl Phthalate | 602 | — | — | 109 | 109 | ug/Kg | — | <MDL | U | 127 | 127 | ug/Kg |
| Fluoranthene | 1950 | — | — | 11 | 21.8 | ug/Kg | 1540 | — | — | 13 | 25.3 | ug/Kg |
| Fluorene | 34.9 | — | — | 11 | 21.8 | ug/Kg | 33.9 | — | — | 13 | 25.3 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.1 | 2.18 | ug/Kg | 4.75 | — | — | 1.3 | 2.53 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 27 | 54.5 | ug/Kg | — | <MDL | U | 32 | 63.3 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | 384 | — | — | 54 | 109 | ug/Kg | 223 | — | — | 63 | 127 | ug/Kg |
| Naphthalene | — | <MDL | U | 54 | 109 | ug/Kg | — | <MDL | U | 63 | 127 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 27.2 | 27.2 | ug/Kg | — | <MDL | U | 31.6 | 31.6 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 163 | 163 | ug/Kg | 213 | — | — | 190 | 190 | ug/Kg |
| Phenanthrene | 643 | — | — | 11 | 21.8 | ug/Kg | 627 | — | — | 13 | 25.3 | ug/Kg |
| Phenol | — | <MDL | UJ | 54 | 163 | ug/Kg | — | <MDL | UJ | 63 | 190 | ug/Kg |
| Pyrene | 1830 | — | J | 54 | 109 | ug/Kg | 1970 | — | J | 13 | 25.3 | ug/Kg |
| Total 4-Nonylphenol | 1400 | <RDL,J | J | 160 | 1740 | ug/Kg | | <MDL,J | U | 190 | 2030 | ug/Kg |
| Total HPAHS | 10500 | — | — | 11 | 21.8 | ug/Kg | 7740 | — | — | 13 | 25.3 | ug/Kg |
| Total LPAHS | 784 | — | — | 11 | 21.8 | ug/Kg | 759 | — | — | 13 | 25.3 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Parameters | EG318 | | | | | | SH318 | | | | | |
|-----------------------------|--|----------|-----------------|-------|-------|-------|-------------------------------|----------|-----------------|-------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Locator: | EG318 | | | | | | SH318 | | | | | |
| Descrip: | EMILL CRK AT 104TH | | | | | | EMILL CRK NEAR SCE | | | | | |
| Sample: | L56024-17 | | | | | | L56024-19 | | | | | |
| Matrix: | SE FRSHWTRSED | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: | 8/28/12 11:00 | | | | | | 8/28/12 13:20 | | | | | |
| TotalSolid: | 31.4 | | | | | | 35 | | | | | |
| Sample Information: | 25 spoons; nearly stagnant, H2S moderate | | | | | | 20 spoons; D.S. side of trail | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 30 | — | — | 2.3 | 4.6 | % | 9.4 | — | — | 1 | 2.1 | % |
| Gravel* | 8.9 | — | — | 0.5 | 4.6 | % | 25.5 | — | — | 0.2 | 2.1 | % |
| Sand* | 63.6 | — | — | 0.5 | 4.6 | % | 68.3 | — | — | 0.2 | 2.1 | % |
| Silt* | 13.8 | — | — | 2.3 | 4.6 | % | 4.2 | — | — | 1 | 2.1 | % |
| Clay* | 16.2 | — | — | 2.3 | 4.6 | % | 5.2 | — | — | 1 | 2.1 | % |
| p+0.00* | 2.5 | <RDL | J | 0.5 | 4.6 | % | 7.8 | — | — | 0.2 | 2.1 | % |
| p+1.00* | 9.2 | — | — | 0.5 | 4.6 | % | 16.2 | — | — | 0.2 | 2.1 | % |
| p+10.0(equal/more than)* | 16.2 | — | — | 2.3 | 4.6 | % | 5.2 | — | — | 1 | 2.1 | % |
| p+2.00* | 30.8 | — | — | 0.5 | 4.6 | % | 29.3 | — | — | 0.2 | 2.1 | % |
| p+3.00* | 16.1 | — | — | 0.5 | 4.6 | % | 11.5 | — | — | 0.2 | 2.1 | % |
| p+4.00* | 5 | — | — | 0.5 | 4.6 | % | 3.7 | — | — | 0.2 | 2.1 | % |
| p+5.00* | 6.9 | — | — | 2.3 | 4.6 | % | 2.1 | RDL | — | 1 | 2.1 | % |
| p+6.00* | 2.3 | <RDL | J | 2.3 | 4.6 | % | — | <MDL | U | 1 | 2.1 | % |
| p+7.00* | 2.3 | <RDL | J | 2.3 | 4.6 | % | 1 | <RDL | J | 1 | 2.1 | % |
| p+8.00* | 2.3 | <RDL | J | 2.3 | 4.6 | % | 1 | <RDL | J | 1 | 2.1 | % |
| p+9.00* | — | <MDL | U | 2.3 | 4.6 | % | — | <MDL | U | 1 | 2.1 | % |
| p-1.00* | 3 | <RDL | J | 0.5 | 4.6 | % | 8.7 | — | — | 0.2 | 2.1 | % |
| p-2.00(less than)* | 5.1 | — | — | 0.5 | 4.6 | % | 12.5 | — | — | 0.2 | 2.1 | % |
| p-2.00* | 0.7 | <RDL | J | 0.5 | 4.6 | % | 4.3 | — | — | 0.2 | 2.1 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 7.74 | JG | — | 0.76 | 3.02 | mg/Kg | 3.54 | JG | J | 0.66 | 2.61 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 31.4 | — | — | 0.005 | 0.01 | % | 35 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.15 | — | — | — | — | pH | 6.66 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 36900 | — | — | 4500 | 8660 | mg/Kg | 32600 | — | — | 2900 | 5970 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 2.7 | <RDL | J | 1.5 | 7.55 | mg/Kg | 2.3 | <RDL | J | 1.3 | 6.51 | mg/Kg |
| Cadmium, Extractable, SEM | 0.31 | <RDL | J | 0.12 | 0.605 | mg/Kg | 0.19 | <RDL | J | 0.11 | 0.523 | mg/Kg |
| Chromium, Extractable, SEM | 3.28 | — | — | 0.18 | 0.904 | mg/Kg | 2.66 | — | — | 0.16 | 0.783 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: EG318 Descrip: EMILL CRK AT 104TH Sample: L56024-17 Matrix: SE FRSHWTRSED ColDate: 8/28/12 11:00 TotalSolid: 31.4 Sample Information: 25 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | SH318 EMILL CRK NEAR SCE L56024-19 SE FRSHWTRSED 8/28/12 13:20 35 20 spoons; D.S. side of trail DRY Weight Basis | | | | | | | | | | |
|---|-------|---|-----------------|-------|---------|-------|--------|----------|-----------------|--------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 13.2 | — | — | 0.24 | 1.21 | mg/Kg | 8.63 | — | — | 0.21 | 1.04 | mg/Kg |
| Lead, Extractable, SEM | 28.2 | — | — | 1.2 | 6.05 | mg/Kg | 18.9 | — | — | 1.1 | 5.23 | mg/Kg |
| Nickel, Extractable, SEM | 1.74 | — | — | 0.3 | 1.51 | mg/Kg | 2.27 | — | — | 0.26 | 1.31 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.24 | 1.21 | mg/Kg | — | <MDL | U | 0.21 | 1.04 | mg/Kg |
| Zinc, Extractable, SEM | 132 | — | — | 0.3 | 1.51 | mg/Kg | 136 | — | — | 0.26 | 1.31 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.003 | 0.00904 | mg/Kg | 0.0037 | <RDL | J | 0.0026 | 0.00783 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.76 | — | — | 0.028 | 0.142 | mg/Kg | 4.06 | — | — | 0.024 | 0.121 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.259 | — | — | 0.014 | 0.071 | mg/Kg | 0.283 | — | — | 0.012 | 0.0606 | mg/Kg |
| Chromium, Total, ICP-MS | 8.41 | — | — | 0.057 | 0.284 | mg/Kg | 10.8 | — | — | 0.19 | 0.969 | mg/Kg |
| Copper, Total, ICP-MS | 11.3 | — | — | 0.11 | 0.567 | mg/Kg | 18.3 | — | — | 0.4 | 1.93 | mg/Kg |
| Lead, Total, ICP-MS | 32.2 | — | — | 0.028 | 0.142 | mg/Kg | 26 | — | — | 0.024 | 0.121 | mg/Kg |
| Nickel, Total, ICP-MS | 5.96 | — | — | 0.028 | 0.142 | mg/Kg | 8.83 | — | — | 0.097 | 0.483 | mg/Kg |
| Silver, Total, ICP-MS | 0.054 | <RDL | J | 0.011 | 0.0567 | mg/Kg | 0.0551 | — | — | 0.0097 | 0.0483 | mg/Kg |
| Zinc, Total, ICP-MS | 108 | — | — | 0.14 | 0.71 | mg/Kg | 228 | — | — | 0.49 | 2.42 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.096 | <RDL | J | 0.015 | 0.154 | mg/Kg | 0.069 | <RDL | J | 0.014 | 0.142 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Aldrin | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Beta-BHC | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Delta-BHC | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Dieldrin | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Endosulfan I | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Endosulfan II | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Endrin | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: EG318 Descrip: EMILL CRK AT 104TH Sample: L56024-17 Matrix: SE FRSHWTRSED ColDate: 8/28/12 11:00 TotalSolid: 31.4 Sample Information: 25 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | SH318 EMILL CRK NEAR SCE L56024-19 SE FRSHWTRSED 8/28/12 13:20 35 20 spoons; D.S. side of trail DRY Weight Basis | | | | | | | | | | |
|---|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Heptachlor | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| Methoxychlor | — | <MDL | U | 17 | 34.1 | ug/Kg | — | <MDL | U | 7.7 | 15.2 | ug/Kg |
| Toxaphene | — | <MDL | U | 67 | 341 | ug/Kg | — | <MDL | U | 31 | 152 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 3.5 | 6.78 | ug/Kg | — | <MDL | U | 1.5 | 3.06 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 4.1 | 17 | ug/Kg | — | <MDL | U | 3.7 | 15.2 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 8.6 | 17 | ug/Kg | — | <MDL | U | 7.7 | 15.2 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 8.6 | 17 | ug/Kg | — | <MDL | U | 7.7 | 15.2 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 4.1 | 17 | ug/Kg | — | <MDL | U | 3.7 | 15.2 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 4.1 | 17 | ug/Kg | — | <MDL | U | 3.7 | 15.2 | ug/Kg |
| Aroclor 1254 | 12 | <RDL | J | 4.1 | 17 | ug/Kg | 8.6 | <RDL | J | 3.7 | 15.2 | ug/Kg |
| Aroclor 1260 | 9.2 | <RDL | J | 4.1 | 17 | ug/Kg | 8.9 | <RDL | J | 3.7 | 15.2 | ug/Kg |
| Total Aroclors | 21 | — | — | 4.1 | 17 | ug/Kg | 17.4 | — | — | 3.7 | 15.2 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 6.4 | 12.7 | ug/Kg | — | <MDL | U | 5.7 | 11.4 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12.7 | 12.7 | ug/Kg | — | <MDL | U | 11.4 | 11.4 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 19.1 | 19.1 | ug/Kg | — | <MDL | U | 17.1 | 17.1 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 64 | 127 | ug/Kg | — | <MDL,JG | UJ | 57 | 114 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 57 | 114 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 11 | 22.9 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 57 | 114 | ug/Kg |
| Acenaphthene | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 11 | 22.9 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 11 | 22.9 | ug/Kg |
| Anthracene | 49 | — | — | 13 | 25.5 | ug/Kg | 14 | <RDL | J | 11 | 22.9 | ug/Kg |
| Benzo(a)anthracene | 238 | — | — | 13 | 25.5 | ug/Kg | 95.1 | — | — | 11 | 22.9 | ug/Kg |
| Benzo(a)pyrene | 279 | — | — | 64 | 127 | ug/Kg | 122 | — | — | 57 | 114 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 812 | — | — | 64 | 127 | ug/Kg | 323 | — | — | 57 | 114 | ug/Kg |
| Benzo(g,h,i)perylene | 110 | <RDL | J | 64 | 127 | ug/Kg | 71 | <RDL | J | 57 | 114 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1270 | 1270 | ug/Kg | — | <MDL | U | 1140 | 1140 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Parameters | EG318 | | | | | | SH318 | | | | | |
|----------------------------|---|----------|-----------------|------|-------|-------|--|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: EG318 Descrip: EMILL CRK AT 104TH Sample: L56024-17 Matrix: SE FRSHWTRSED ColDate: 8/28/12 11:00 TotalSolid: 31.4 Sample Information: 25 spoons; nearly stagnant, H2S moderate DRY Weight Basis | | | | | | Locator: SH318 Descrip: EMILL CRK NEAR SCE Sample: L56024-19 Matrix: SE FRSHWTRSED ColDate: 8/28/12 13:20 TotalSolid: 35 Sample Information: 20 spoons; D.S. side of trail DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 31.8 | 31.8 | ug/Kg | — | <MDL | U | 28.6 | 28.6 | ug/Kg |
| Benzyl Butyl Phthalate | 191 | — | — | 19.1 | 19.1 | ug/Kg | 126 | — | — | 17.1 | 17.1 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 410 | 2040 | ug/Kg | — | <MDL | U | 370 | 1830 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 1920 | — | — | 25 | 51 | ug/Kg | 1420 | — | — | 23 | 45.7 | ug/Kg |
| Bisphenol A | — | <MDL | U | 410 | 2040 | ug/Kg | — | <MDL | U | 370 | 1830 | ug/Kg |
| Carbazole | 35 | — | — | 13 | 25.5 | ug/Kg | 18 | <RDL | J | 11 | 22.9 | ug/Kg |
| Chrysene | 379 | — | — | 13 | 25.5 | ug/Kg | 173 | — | — | 11 | 22.9 | ug/Kg |
| Coprostanol | — | <MDL | U | 2100 | 20400 | ug/Kg | — | <MDL | U | 1900 | 18300 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 57 | 114 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 11 | 22.9 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 25 | 51 | ug/Kg | — | <MDL | U | 23 | 45.7 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 25.5 | 25.5 | ug/Kg | — | <MDL | U | 22.9 | 22.9 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 25 | 51 | ug/Kg | — | <MDL | U | 23 | 45.7 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 127 | 127 | ug/Kg | — | <MDL | U | 114 | 114 | ug/Kg |
| Fluoranthene | 561 | — | — | 13 | 25.5 | ug/Kg | 230 | — | — | 11 | 22.9 | ug/Kg |
| Fluorene | 14 | <RDL | J | 13 | 25.5 | ug/Kg | — | <MDL | U | 11 | 22.9 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.3 | 2.55 | ug/Kg | — | <MDL | U | 1.1 | 2.29 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 32 | 63.7 | ug/Kg | — | <MDL | U | 29 | 57.1 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | 120 | <RDL | J | 64 | 127 | ug/Kg | 63 | <RDL | J | 57 | 114 | ug/Kg |
| Naphthalene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 57 | 114 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 31.8 | 31.8 | ug/Kg | — | <MDL | U | 28.6 | 28.6 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 191 | 191 | ug/Kg | — | <MDL | U | 171 | 171 | ug/Kg |
| Phenanthrene | 236 | — | — | 13 | 25.5 | ug/Kg | 92.9 | — | — | 11 | 22.9 | ug/Kg |
| Phenol | — | <MDL | U | 64 | 191 | ug/Kg | — | <MDL | U | 57 | 171 | ug/Kg |
| Pyrene | 682 | — | — | 13 | 25.5 | ug/Kg | 254 | — | — | 11 | 22.9 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 190 | 2040 | ug/Kg | — | <MDL | U | 170 | 1830 | ug/Kg |
| Total HPAHS | 3190 | — | — | 13 | 25.5 | ug/Kg | 1330 | — | — | 11 | 22.9 | ug/Kg |
| Total LPAHS | 299 | — | — | 13 | 25.5 | ug/Kg | 107 | — | — | 11 | 22.9 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Parameters | AB320 | | | | | | CC320 | | | | | |
|-----------------------------|-------------------------|----------|-----------------|-------|-------|-------|---------------------------------------|----------|-----------------|-------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Locator: | AB320 | | | | | | CC320 | | | | | |
| Descrip: | COVINGTON CRK AT 1 | | | | | | COVINGTON CREEK AT | | | | | |
| Sample: | L56024-20 | | | | | | L56024-21 | | | | | |
| Matrix: | SE FRSHWTRSED | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: | 8/14/12 14:15 | | | | | | 8/14/12 14:50 | | | | | |
| TotalSolid: | 59.9 | | | | | | 76.6 | | | | | |
| Sample Information: | 15 spoons | | | | | | 20 spoons; much cobble, limited fines | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 5.1 | — | — | 0.7 | 1.5 | % | 3.1 | — | — | 0.6 | 1.2 | % |
| Gravel* | 7.7 | — | — | 0.2 | 1.5 | % | 70 | — | — | 0.1 | 1.2 | % |
| Sand* | 83.1 | — | — | 0.2 | 1.5 | % | 28.8 | — | — | 0.1 | 1.2 | % |
| Silt* | 2.2 | — | — | 0.7 | 1.5 | % | 0.6 | <RDL | J | 0.6 | 1.2 | % |
| Clay* | 2.9 | — | — | 0.7 | 1.5 | % | 2.4 | — | — | 0.6 | 1.2 | % |
| p+0.00* | 9.2 | — | — | 0.2 | 1.5 | % | 6.3 | — | — | 0.1 | 1.2 | % |
| p+1.00* | 30.7 | — | — | 0.2 | 1.5 | % | 6.5 | — | — | 0.1 | 1.2 | % |
| p+10.0(equal/more than)* | 2.9 | — | — | 0.7 | 1.5 | % | 2.4 | — | — | 0.6 | 1.2 | % |
| p+2.00* | 27.7 | — | — | 0.2 | 1.5 | % | 6.5 | — | — | 0.1 | 1.2 | % |
| p+3.00* | 11.5 | — | — | 0.2 | 1.5 | % | 6.1 | — | — | 0.1 | 1.2 | % |
| p+4.00* | 4.1 | — | — | 0.2 | 1.5 | % | 3.3 | — | — | 0.1 | 1.2 | % |
| p+5.00* | 1.5 | RDL | — | 0.7 | 1.5 | % | 0.6 | <RDL | J | 0.6 | 1.2 | % |
| p+6.00* | — | <MDL | U | 0.7 | 1.5 | % | — | <MDL | U | 0.6 | 1.2 | % |
| p+7.00* | 0.7 | <RDL | J | 0.7 | 1.5 | % | — | <MDL | U | 0.6 | 1.2 | % |
| p+8.00* | — | <MDL | U | 0.7 | 1.5 | % | — | <MDL | U | 0.6 | 1.2 | % |
| p+9.00* | — | <MDL | U | 0.7 | 1.5 | % | — | <MDL | U | 0.6 | 1.2 | % |
| p-1.00* | 2.4 | — | — | 0.2 | 1.5 | % | 10.4 | — | — | 0.1 | 1.2 | % |
| p-2.00(less than)* | 5.1 | — | — | 0.2 | 1.5 | % | 56.3 | — | — | 0.1 | 1.2 | % |
| p-2.00* | 0.2 | <RDL | J | 0.2 | 1.5 | % | 3.4 | — | — | 0.1 | 1.2 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 3.71 | JG | — | 0.4 | 1.6 | mg/Kg | | <MDL,JG | U | 0.3 | 1.21 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 59.9 | — | — | 0.005 | 0.01 | % | 76.6 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.69 | — | — | — | — | pH | 6.93 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 16700 | — | — | 1300 | 2620 | mg/Kg | 8860 | — | — | 560 | 1110 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 1 | <RDL | J | 0.8 | 3.99 | mg/Kg | 0.61 | <RDL | J | 0.6 | 3.03 | mg/Kg |
| Cadmium, Extractable, SEM | — | <MDL | U | 0.063 | 0.321 | mg/Kg | — | <MDL | U | 0.048 | 0.242 | mg/Kg |
| Chromium, Extractable, SEM | 0.684 | — | — | 0.095 | 0.479 | mg/Kg | 0.463 | — | — | 0.073 | 0.363 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: AB320 Descrip: COVINGTON CRK AT 1 Sample: L56024-20 Matrix: SE FRSHWTRSED ColDate: 8/14/12 14:15 TotalSolid: 59.9 Sample Information: 15 spoons DRY Weight Basis | | CC320 COVINGTON CREEK AT L56024-21 SE FRSHWTRSED 8/14/12 14:50 76.6 20 spoons; much cobble, limited fines DRY Weight Basis | | | | | | | | | | |
|--|--------|---|-----------------|--------|---------|-------|-------|----------|-----------------|--------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 2.25 | — | — | 0.13 | 0.639 | mg/Kg | 1.2 | — | — | 0.097 | 0.483 | mg/Kg |
| Lead, Extractable, SEM | 1.7 | <RDL | J | 0.63 | 3.21 | mg/Kg | 1.8 | <RDL | J | 0.48 | 2.42 | mg/Kg |
| Nickel, Extractable, SEM | 0.856 | — | — | 0.16 | 0.8 | mg/Kg | 0.37 | <RDL | J | 0.12 | 0.604 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.13 | 0.639 | mg/Kg | — | <MDL | U | 0.097 | 0.483 | mg/Kg |
| Zinc, Extractable, SEM | 6.54 | — | — | 0.16 | 0.8 | mg/Kg | 3.84 | — | — | 0.12 | 0.604 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | 0.0023 | <RDL | J | 0.0016 | 0.00479 | mg/Kg | — | <MDL | U | 0.0012 | 0.00363 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 4.91 | — | — | 0.025 | 0.129 | mg/Kg | 3.12 | — | — | 0.021 | 0.107 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.06 | <RDL | J | 0.013 | 0.0644 | mg/Kg | 0.04 | <RDL | J | 0.011 | 0.0533 | mg/Kg |
| Chromium, Total, ICP-MS | 21 | — | — | 0.2 | 1.03 | mg/Kg | 12.5 | — | — | 0.17 | 0.852 | mg/Kg |
| Copper, Total, ICP-MS | 13.2 | — | — | 0.42 | 2.07 | mg/Kg | 10.1 | — | — | 0.34 | 1.71 | mg/Kg |
| Lead, Total, ICP-MS | 3.11 | — | — | 0.025 | 0.129 | mg/Kg | 2.87 | — | — | 0.021 | 0.107 | mg/Kg |
| Nickel, Total, ICP-MS | 24 | — | — | 0.1 | 0.516 | mg/Kg | 14.4 | — | — | 0.085 | 0.426 | mg/Kg |
| Silver, Total, ICP-MS | 0.03 | <RDL | J | 0.01 | 0.0516 | mg/Kg | 0.022 | <RDL | J | 0.0085 | 0.0426 | mg/Kg |
| Zinc, Total, ICP-MS | 39.2 | — | — | 0.13 | 0.644 | mg/Kg | 34.5 | — | — | 0.11 | 0.533 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.027 | <RDL | J | 0.0083 | 0.0828 | mg/Kg | 0.014 | <RDL | J | 0.0064 | 0.0633 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Aldrin | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Beta-BHC | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Delta-BHC | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Dieldrin | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Endosulfan I | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Endosulfan II | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Endrin | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: AB320 Descrip: COVINGTON CRK AT 1 Sample: L56024-20 Matrix: SE FRSHWTRSED ColDate: 8/14/12 14:15 TotalSolid: 59.9 Sample Information: 15 spoons DRY Weight Basis | | CC320 COVINGTON CREEK AT L56024-21 SE FRSHWTRSED 8/14/12 14:50 76.6 20 spoons; much cobble, limited fines DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Heptachlor | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Methoxychlor | — | <MDL | U | 4.5 | 8.9 | ug/Kg | — | <MDL | U | 3.5 | 6.96 | ug/Kg |
| Toxaphene | — | <MDL | U | 18 | 89 | ug/Kg | — | <MDL | U | 14 | 69.6 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 2.2 | 8.9 | ug/Kg | — | <MDL | U | 1.7 | 6.96 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 4.5 | 8.9 | ug/Kg | — | <MDL | U | 3.5 | 6.96 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 4.5 | 8.9 | ug/Kg | — | <MDL | U | 3.5 | 6.96 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 2.2 | 8.9 | ug/Kg | — | <MDL | U | 1.7 | 6.96 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 2.2 | 8.9 | ug/Kg | — | <MDL | U | 1.7 | 6.96 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 2.2 | 8.9 | ug/Kg | — | <MDL | U | 1.7 | 6.96 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 2.2 | 8.9 | ug/Kg | — | <MDL | U | 1.7 | 6.96 | ug/Kg |
| Total Aroclors | — | <MDL | — | 4.5 | 8.9 | ug/Kg | — | <MDL | — | 3.5 | 6.96 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 4.5 | 8.9 | ug/Kg | — | <MDL | U | 3.5 | 6.96 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 8.9 | 8.9 | ug/Kg | — | <MDL,J | U | 6.96 | 6.96 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 13.4 | 13.4 | ug/Kg | — | <MDL,J | U | 10.4 | 10.4 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 45 | 89 | ug/Kg | — | <MDL | UJ | 35 | 69.6 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 45 | 89 | ug/Kg | — | <MDL | U | 35 | 69.6 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | UJ | 6.9 | 14 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 220 | 446 | ug/Kg | — | <MDL | U | 35 | 69.6 | ug/Kg |
| Acenaphthene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Anthracene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | 8.2 | <RDL | J | 6.9 | 14 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 45 | 89 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Benzo(b,j,k)fluoranthene | — | <MDL | U | 45 | 89 | ug/Kg | 20 | — | — | 6.9 | 14 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 45 | 89 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 890 | 890 | ug/Kg | — | <MDL | U | 696 | 696 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | AB320 | | | | | | CC320 | | | | | |
|----------------------------|--|----------|-----------------|------|-------|-------|--|----------|-----------------|------|------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: AB320 Descrip: COVINGTON CRK AT 1 Sample: L56024-20 Matrix: SE FRSHWTRSED ColDate: 8/14/12 14:15 TotalSolid: 59.9 Sample Information: 15 spoons DRY Weight Basis | | | | | | Locator: CC320 Descrip: COVINGTON CREEK AT Sample: L56024-21 Matrix: SE FRSHWTRSED ColDate: 8/14/12 14:50 TotalSolid: 76.6 Sample Information: 20 spoons; much cobble, limited fines DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 22.2 | 22.2 | ug/Kg | — | <MDL | U | 17.4 | 17.4 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 13.4 | 13.4 | ug/Kg | — | <MDL | U | 10.4 | 10.4 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 300 | 1420 | ug/Kg | — | <MDL | U | 230 | 1110 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 27 | <RDL | J | 18 | 35.6 | ug/Kg | 20 | <RDL,B | U | 14 | 27.8 | ug/Kg |
| Bisphenol A | — | <MDL | U | 300 | 1420 | ug/Kg | — | <MDL | U | 230 | 1110 | ug/Kg |
| Carbazole | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Chrysene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | 17.9 | — | — | 6.9 | 14 | ug/Kg |
| Coprostanol | — | <MDL | U | 1500 | 14200 | ug/Kg | — | <MDL | U | 230 | 2230 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 45 | 89 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 18 | 35.6 | ug/Kg | — | <MDL | U | 14 | 27.8 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 17.9 | 17.9 | ug/Kg | — | <MDL | U | 14 | 14 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 18 | 35.6 | ug/Kg | — | <MDL | U | 14 | 27.8 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 89 | 89 | ug/Kg | — | <MDL | U | 14 | 14 | ug/Kg |
| Fluoranthene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | 17.1 | — | — | 6.9 | 14 | ug/Kg |
| Fluorene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 0.88 | 1.79 | ug/Kg | — | <MDL | U | 0.69 | 1.4 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 22 | 44.6 | ug/Kg | — | <MDL | U | 17 | 34.9 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 45 | 89 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Naphthalene | — | <MDL | U | 45 | 89 | ug/Kg | — | <MDL | U | 35 | 69.6 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 22.2 | 22.2 | ug/Kg | — | <MDL | U | 17.4 | 17.4 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 134 | 134 | ug/Kg | — | <MDL | U | 104 | 104 | ug/Kg |
| Phenanthrene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | — | <MDL | U | 6.9 | 14 | ug/Kg |
| Phenol | — | <MDL | U | 45 | 134 | ug/Kg | — | <MDL | U | 35 | 104 | ug/Kg |
| Pyrene | — | <MDL | U | 8.8 | 17.9 | ug/Kg | 15.9 | — | — | 6.9 | 14 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 130 | 1420 | ug/Kg | — | <MDL,J | U | 100 | 1110 | ug/Kg |
| Total HPAHS | — | <MDL | — | 45 | 89 | ug/Kg | 79.1 | — | — | 6.9 | 14 | ug/Kg |
| Total LPAHS | — | <MDL | — | 45 | 89 | ug/Kg | — | <MDL | — | 35 | 69.6 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: C320 Descrip: COVINGTON CREEK//B Sample: L56024-22 Matrix: SE FRSHWTRSED ColDate: 8/14/12 15:25 TotalSolid: 42.9 Sample Information: 15 spoons; U.S. side of bridge DRY Weight Basis | | CD320 COVINGTON CRK AT 1 L56024-23 SE FRSHWTRSED 8/15/12 11:45 48 15 spoons; D.S. of bridge, H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|-------|-------|-------|-------|----------|-----------------|-------|-------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 15.4 | — | — | 1.3 | 2.6 | % | 5.8 | — | — | 1 | 1.9 | % |
| Gravel* | 20.2 | — | — | 0.3 | 2.6 | % | 23 | — | — | 0.2 | 1.9 | % |
| Sand* | 63.2 | — | — | 0.3 | 2.6 | % | 69.3 | — | — | 0.2 | 1.9 | % |
| Silt* | 10.3 | — | — | 1.3 | 2.6 | % | 1.9 | RDL | — | 1 | 1.9 | % |
| Clay* | 5.1 | — | — | 1.3 | 2.6 | % | 3.9 | — | — | 1 | 1.9 | % |
| p+0.00* | 4.3 | — | — | 0.3 | 2.6 | % | 4.3 | — | — | 0.2 | 1.9 | % |
| p+1.00* | 7.5 | — | — | 0.3 | 2.6 | % | 16 | — | — | 0.2 | 1.9 | % |
| p+10.0(equal/more than)* | 5.1 | — | — | 1.3 | 2.6 | % | 3.9 | — | — | 1 | 1.9 | % |
| p+2.00* | 11.8 | — | — | 0.3 | 2.6 | % | 34.1 | — | — | 0.2 | 1.9 | % |
| p+3.00* | 22.2 | — | — | 0.3 | 2.6 | % | 11.1 | — | — | 0.2 | 1.9 | % |
| p+4.00* | 17.3 | — | — | 0.3 | 2.6 | % | 3.8 | — | — | 0.2 | 1.9 | % |
| p+5.00* | 9 | — | — | 1.3 | 2.6 | % | 1.9 | RDL | — | 1 | 1.9 | % |
| p+6.00* | 1.3 | <RDL | J | 1.3 | 2.6 | % | — | <MDL | U | 1 | 1.9 | % |
| p+7.00* | — | <MDL | U | 1.3 | 2.6 | % | — | <MDL | U | 1 | 1.9 | % |
| p+8.00* | — | <MDL | U | 1.3 | 2.6 | % | — | <MDL | U | 1 | 1.9 | % |
| p+9.00* | — | <MDL | U | 1.3 | 2.6 | % | — | <MDL | U | 1 | 1.9 | % |
| p-1.00* | 4.1 | — | — | 0.3 | 2.6 | % | 3.2 | — | — | 0.2 | 1.9 | % |
| p-2.00(less than)* | 15.6 | — | — | 0.3 | 2.6 | % | 18.3 | — | — | 0.2 | 1.9 | % |
| p-2.00* | 0.5 | <RDL | J | 0.3 | 2.6 | % | 1.5 | <RDL | J | 0.2 | 1.9 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 39.4 | JG | — | 2.8 | 11.2 | mg/Kg | 38.8 | JG | — | 2.5 | 9.92 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 42.9 | — | — | 0.005 | 0.01 | % | 48 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.73 | — | — | — | — | pH | 6.95 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 40300 | — | — | 3500 | 6830 | mg/Kg | 37900 | — | — | 2900 | 6000 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | — | <MDL | U | 1.1 | 5.59 | mg/Kg | — | <MDL | U | 1 | 4.96 | mg/Kg |
| Cadmium, Extractable, SEM | — | <MDL | U | 0.089 | 0.448 | mg/Kg | — | <MDL | U | 0.079 | 0.398 | mg/Kg |
| Chromium, Extractable, SEM | 0.72 | — | — | 0.14 | 0.671 | mg/Kg | 1.3 | — | — | 0.12 | 0.596 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: C320 | | CD320 | | | | | | | | | | |
|--|--------|---------------------------------------|-----------------|--------|---------|-------|-------|----------|-----------------|--------|---------|-------|
| Descrip: COVINGTON CREEK//B | | COVINGTON CRK AT 1 | | | | | | | | | | |
| Sample: L56024-22 | | L56024-23 | | | | | | | | | | |
| Matrix: SE FRSHWTRSED | | SE FRSHWTRSED | | | | | | | | | | |
| ColDate: 8/14/12 15:25 | | 8/15/12 11:45 | | | | | | | | | | |
| TotalSolid: 42.9 | | 48 | | | | | | | | | | |
| Sample Information: 15 spoons; U.S. side of bridge | | 15 spoons; D.S. of bridge, H2S slight | | | | | | | | | | |
| DRY Weight Basis | | DRY Weight Basis | | | | | | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 4.57 | — | — | 0.18 | 0.895 | mg/Kg | 2.71 | — | — | 0.16 | 0.794 | mg/Kg |
| Lead, Extractable, SEM | 5.36 | — | — | 0.89 | 4.48 | mg/Kg | 3.3 | <RDL | J | 0.79 | 3.98 | mg/Kg |
| Nickel, Extractable, SEM | 0.65 | <RDL | J | 0.22 | 1.12 | mg/Kg | 0.65 | <RDL | J | 0.2 | 0.992 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.18 | 0.895 | mg/Kg | — | <MDL | U | 0.16 | 0.794 | mg/Kg |
| Zinc, Extractable, SEM | 11.7 | — | — | 0.22 | 1.12 | mg/Kg | 9.33 | — | — | 0.2 | 0.992 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0022 | 0.00671 | mg/Kg | — | <MDL | U | 0.002 | 0.00596 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 0.706 | — | — | 0.022 | 0.109 | mg/Kg | 1.18 | — | — | 0.018 | 0.0921 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.03 | <RDL | J | 0.011 | 0.0543 | mg/Kg | 0.038 | <RDL | J | 0.0092 | 0.046 | mg/Kg |
| Chromium, Total, ICP-MS | 3.1 | — | — | 0.044 | 0.217 | mg/Kg | 3.9 | — | — | 0.038 | 0.184 | mg/Kg |
| Copper, Total, ICP-MS | 1.93 | — | — | 0.086 | 0.434 | mg/Kg | 2.9 | — | — | 0.073 | 0.369 | mg/Kg |
| Lead, Total, ICP-MS | 1.78 | — | — | 0.022 | 0.109 | mg/Kg | 1.98 | — | — | 0.018 | 0.0921 | mg/Kg |
| Nickel, Total, ICP-MS | 2.33 | — | — | 0.022 | 0.109 | mg/Kg | 3.54 | — | — | 0.018 | 0.0921 | mg/Kg |
| Silver, Total, ICP-MS | 0.0096 | <RDL | J | 0.0086 | 0.0434 | mg/Kg | 0.013 | <RDL | J | 0.0073 | 0.0369 | mg/Kg |
| Zinc, Total, ICP-MS | 7.02 | — | — | 0.11 | 0.543 | mg/Kg | 10.5 | — | — | 0.092 | 0.46 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.065 | <RDL | J | 0.011 | 0.111 | mg/Kg | 0.019 | <RDL | J | 0.01 | 0.104 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Aldrin | — | <MDL | UJ | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Beta-BHC | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Delta-BHC | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Dieldrin | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Endosulfan I | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Endosulfan II | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Endrin | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: C320 Descrip: COVINGTON CREEK//B Sample: L56024-22 Matrix: SE FRSHWTRSED ColDate: 8/14/12 15:25 TotalSolid: 42.9 Sample Information: 15 spoons; U.S. side of bridge DRY Weight Basis | | CD320 COVINGTON CRK AT 1 L56024-23 SE FRSHWTRSED 8/15/12 11:45 48 15 spoons; D.S. of bridge, H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Methoxychlor | — | <MDL | U | 6.3 | 12.4 | ug/Kg | — | <MDL | U | 5.6 | 11.1 | ug/Kg |
| Toxaphene | — | <MDL | U | 26 | 124 | ug/Kg | — | <MDL | U | 23 | 111 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 3 | 12.4 | ug/Kg | — | <MDL | U | 2.7 | 11.1 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 6.3 | 12.4 | ug/Kg | — | <MDL | U | 5.6 | 11.1 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 6.3 | 12.4 | ug/Kg | — | <MDL | U | 5.6 | 11.1 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 3 | 12.4 | ug/Kg | — | <MDL | U | 2.7 | 11.1 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 3 | 12.4 | ug/Kg | — | <MDL | U | 2.7 | 11.1 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 3 | 12.4 | ug/Kg | — | <MDL | U | 2.7 | 11.1 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 3 | 12.4 | ug/Kg | — | <MDL | U | 2.7 | 11.1 | ug/Kg |
| Total Aroclors | — | <MDL | — | 6.3 | 12.4 | ug/Kg | — | <MDL | — | 5.6 | 11.1 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 6.3 | 12.4 | ug/Kg | — | <MDL | U | 5.6 | 11.1 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12.4 | 12.4 | ug/Kg | — | <MDL | U | 11.1 | 11.1 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 18.6 | 18.6 | ug/Kg | — | <MDL | U | 16.7 | 16.7 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL | UJ | 63 | 124 | ug/Kg | — | <MDL,JG | UJ | 56 | 111 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 63 | 124 | ug/Kg | — | <MDL | U | 56 | 111 | ug/Kg |
| 2-Methylphenol | — | <MDL | UJ | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| 3-,4-Methylphenol | 296 | — | — | 63 | 124 | ug/Kg | 131 | — | — | 56 | 111 | ug/Kg |
| Acenaphthene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Anthracene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 22 | <RDL | J | 12 | 24.9 | ug/Kg | 14 | <RDL | J | 11 | 22.3 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1240 | 1240 | ug/Kg | — | <MDL | U | 1110 | 1110 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | C320 | | | | | | CD320 | | | | | |
|----------------------------|--|----------|-----------------|------|------|-------|--|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: C320 Descrip: COVINGTON CREEK//B Sample: L56024-22 Matrix: SE FRSHWTRSED ColDate: 8/14/12 15:25 TotalSolid: 42.9 Sample Information: 15 spoons; U.S. side of bridge DRY Weight Basis | | | | | | Locator: CD320 Descrip: COVINGTON CRK AT 1 Sample: L56024-23 Matrix: SE FRSHWTRSED ColDate: 8/15/12 11:45 TotalSolid: 48 Sample Information: 15 spoons; D.S. of bridge, H2S slight DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 31 | 31 | ug/Kg | — | <MDL | U | 27.7 | 27.7 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 18.6 | 18.6 | ug/Kg | — | <MDL | U | 16.7 | 16.7 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 420 | 1990 | ug/Kg | — | <MDL | U | 380 | 1780 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 49 | <RDL,B | U | 26 | 49.7 | ug/Kg | 38 | <RDL | J | 23 | 44.4 | ug/Kg |
| Bisphenol A | — | <MDL | U | 420 | 1990 | ug/Kg | — | <MDL | U | 380 | 1780 | ug/Kg |
| Carbazole | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Chrysene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Coprostanol | — | <MDL | U | 420 | 3990 | ug/Kg | — | <MDL | U | 1800 | 17800 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 26 | 49.7 | ug/Kg | 49 | — | — | 23 | 44.4 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 24.9 | 24.9 | ug/Kg | — | <MDL | U | 22.3 | 22.3 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 26 | 49.7 | ug/Kg | — | <MDL | U | 23 | 44.4 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 24.9 | 24.9 | ug/Kg | — | <MDL | U | 22.3 | 22.3 | ug/Kg |
| Fluoranthene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Fluorene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.2 | 2.49 | ug/Kg | — | <MDL | U | 1.1 | 2.23 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 30 | 62.2 | ug/Kg | — | <MDL | U | 27 | 55.6 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Naphthalene | — | <MDL | U | 63 | 124 | ug/Kg | — | <MDL | U | 56 | 111 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 31 | 31 | ug/Kg | — | <MDL | U | 27.7 | 27.7 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 186 | 186 | ug/Kg | — | <MDL | U | 167 | 167 | ug/Kg |
| Phenanthrene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Phenol | — | <MDL | UJ | 63 | 186 | ug/Kg | — | <MDL | U | 56 | 167 | ug/Kg |
| Pyrene | — | <MDL | U | 12 | 24.9 | ug/Kg | — | <MDL | U | 11 | 22.3 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL,J | U | 190 | 1990 | ug/Kg | — | <MDL | U | 170 | 1780 | ug/Kg |
| Total HPAHS | 22 | <RDL | — | 12 | 24.9 | ug/Kg | 14 | <RDL | — | 11 | 22.3 | ug/Kg |
| Total LPAHS | — | <MDL | — | 63 | 124 | ug/Kg | — | <MDL | — | 56 | 111 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: PT320 Descrip: COVINGTON CRK NEAR Sample: L56024-24 Matrix: SE FRSHWTRSED ColDate: 8/15/12 12:15 TotalSolid: 44.2 Sample Information: 15 spoons; H2S slight DRY Weight Basis | | Z320 COVINGTON CREEK BE L56024-25 SE FRSHWTRSED 8/15/12 12:45 43.1 20 spoons; H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|--|-----------------|-------|-------|-------|-------|----------|-----------------|-------|-------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 11.3 | — | — | 1.3 | 2.5 | % | 16.9 | — | — | 2.4 | 4.8 | % |
| Gravel* | 33.7 | — | — | 0.3 | 2.5 | % | 46.2 | — | — | 0.5 | 4.8 | % |
| Sand* | 47.8 | — | — | 0.3 | 2.5 | % | 40.3 | — | — | 0.5 | 4.8 | % |
| Silt* | 6.3 | — | — | 1.3 | 2.5 | % | 7.2 | — | — | 2.4 | 4.8 | % |
| Clay* | 5 | — | — | 1.3 | 2.5 | % | 9.6 | — | — | 2.4 | 4.8 | % |
| p+0.00* | 10.5 | — | — | 0.3 | 2.5 | % | 9.5 | — | — | 0.5 | 4.8 | % |
| p+1.00* | 4.9 | — | — | 0.3 | 2.5 | % | 7.4 | — | — | 0.5 | 4.8 | % |
| p+10.0(equal/more than)* | 5 | — | — | 1.3 | 2.5 | % | 9.6 | — | — | 2.4 | 4.8 | % |
| p+2.00* | 9.1 | — | — | 0.3 | 2.5 | % | 8.9 | — | — | 0.5 | 4.8 | % |
| p+3.00* | 14 | — | — | 0.3 | 2.5 | % | 10.4 | — | — | 0.5 | 4.8 | % |
| p+4.00* | 9.4 | — | — | 0.3 | 2.5 | % | 4.1 | <RDL | J | 0.5 | 4.8 | % |
| p+5.00* | 5 | — | — | 1.3 | 2.5 | % | 4.8 | RDL | — | 2.4 | 4.8 | % |
| p+6.00* | — | <MDL | U | 1.3 | 2.5 | % | — | <MDL | U | 2.4 | 4.8 | % |
| p+7.00* | — | <MDL | U | 1.3 | 2.5 | % | 2.4 | <RDL | J | 2.4 | 4.8 | % |
| p+8.00* | 1.3 | <RDL | J | 1.3 | 2.5 | % | — | <MDL | U | 2.4 | 4.8 | % |
| p+9.00* | — | <MDL | U | 1.3 | 2.5 | % | — | <MDL | U | 2.4 | 4.8 | % |
| p-1.00* | 17.9 | — | — | 0.3 | 2.5 | % | 18.1 | — | — | 0.5 | 4.8 | % |
| p-2.00(less than)* | 13.1 | — | — | 0.3 | 2.5 | % | 22.2 | — | — | 0.5 | 4.8 | % |
| p-2.00* | 2.6 | — | — | 0.3 | 2.5 | % | 6 | — | — | 0.5 | 4.8 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 24.9 | JG | — | 2.7 | 11 | mg/Kg | 271 | JG | — | 14 | 55.2 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 44.2 | — | — | 0.005 | 0.01 | % | 43.1 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.86 | — | — | — | — | pH | 6.83 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 39600 | — | — | 3800 | 7510 | mg/Kg | 67100 | — | — | 6000 | 11900 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 1.8 | <RDL | J | 1.1 | 5.48 | mg/Kg | — | <MDL | U | 1.1 | 5.52 | mg/Kg |
| Cadmium, Extractable, SEM | — | <MDL | U | 0.088 | 0.437 | mg/Kg | — | <MDL | U | 0.088 | 0.443 | mg/Kg |
| Chromium, Extractable, SEM | 1.05 | — | — | 0.13 | 0.656 | mg/Kg | 0.35 | <RDL | J | 0.13 | 0.664 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: PT320 | | | | | | | Z320 | | | | | | |
|---|-------|----------|-----------------|--------|---------|-------|-----------------------|----------|-----------------|--------|---------|-------|--|
| Descrip: COVINGTON CRK NEAR | | | | | | | COVINGTON CREEK BE | | | | | | |
| Sample: L56024-24 | | | | | | | L56024-25 | | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | | |
| ColDate: 8/15/12 12:15 | | | | | | | 8/15/12 12:45 | | | | | | |
| TotalSolid: 44.2 | | | | | | | 43.1 | | | | | | |
| Sample Information: 15 spoons; H2S slight | | | | | | | 20 spoons; H2S slight | | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units | |
| Copper, Extractable, SEM | 3.05 | — | — | 0.17 | 0.876 | mg/Kg | 2.15 | — | — | 0.18 | 0.884 | mg/Kg | |
| Lead, Extractable, SEM | 6.45 | — | — | 0.88 | 4.37 | mg/Kg | 3.9 | <RDL | J | 0.88 | 4.43 | mg/Kg | |
| Nickel, Extractable, SEM | 0.75 | <RDL | J | 0.22 | 1.1 | mg/Kg | 0.3 | <RDL | J | 0.22 | 1.11 | mg/Kg | |
| Silver, Extractable, SEM | — | <MDL | U | 0.17 | 0.876 | mg/Kg | — | <MDL | U | 0.18 | 0.884 | mg/Kg | |
| Zinc, Extractable, SEM | 18.8 | — | — | 0.22 | 1.1 | mg/Kg | 18.8 | — | — | 0.22 | 1.11 | mg/Kg | |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0022 | 0.00656 | mg/Kg | — | <MDL | U | 0.0022 | 0.00664 | mg/Kg | |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 19.5 | J | J | 0.036 | 0.185 | mg/Kg | 4.08 | — | — | 0.021 | 0.107 | mg/Kg | |
| Cadmium, Total, ICP-MS | 0.101 | — | — | 0.019 | 0.0928 | mg/Kg | 0.0875 | — | — | 0.011 | 0.0534 | mg/Kg | |
| Chromium, Total, ICP-MS | 30.3 | J | J | 0.29 | 1.48 | mg/Kg | 12.5 | — | — | 0.17 | 0.854 | mg/Kg | |
| Copper, Total, ICP-MS | 13.9 | J | J | 0.59 | 2.96 | mg/Kg | 12.7 | — | — | 0.35 | 1.71 | mg/Kg | |
| Lead, Total, ICP-MS | 10.2 | — | — | 0.036 | 0.185 | mg/Kg | 8.05 | — | — | 0.021 | 0.107 | mg/Kg | |
| Nickel, Total, ICP-MS | 23.3 | J | J | 0.15 | 0.742 | mg/Kg | 14.8 | — | — | 0.086 | 0.427 | mg/Kg | |
| Silver, Total, ICP-MS | 0.043 | <RDL | J | 0.015 | 0.0742 | mg/Kg | 0.032 | <RDL | J | 0.0086 | 0.0427 | mg/Kg | |
| Zinc, Total, ICP-MS | 81 | — | — | 0.19 | 0.928 | mg/Kg | 49.4 | — | — | 0.11 | 0.534 | mg/Kg | |
| MT SW846 7471B | | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.021 | <RDL | J | 0.011 | 0.112 | mg/Kg | 0.039 | <RDL | J | 0.012 | 0.115 | mg/Kg | |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| 4,4'-DDE | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| 4,4'-DDT | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Aldrin | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Alpha-BHC | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Alpha-Chlordane | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Beta-BHC | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Delta-BHC | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Dieldrin | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Endosulfan I | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Endosulfan II | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Endosulfan Sulfate | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |
| Endrin | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg | |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: PT320 Descrip: COVINGTON CRK NEAR Sample: L56024-24 Matrix: SE FRSHWTRSED ColDate: 8/15/12 12:15 TotalSolid: 44.2 Sample Information: 15 spoons; H2S slight DRY Weight Basis | | Z320 COVINGTON CREEK BE L56024-25 SE FRSHWTRSED 8/15/12 12:45 43.1 20 spoons; H2S slight DRY Weight Basis | | | | | | | | | | |
|--|-------|--|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg |
| Methoxychlor | — | <MDL | U | 6.1 | 12.1 | ug/Kg | — | <MDL | U | 6.3 | 12.4 | ug/Kg |
| Toxaphene | — | <MDL | U | 25 | 121 | ug/Kg | — | <MDL | U | 26 | 124 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 2.9 | 12.1 | ug/Kg | — | <MDL | U | 3 | 12.4 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 6.1 | 12.1 | ug/Kg | — | <MDL | U | 6.3 | 12.4 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 6.1 | 12.1 | ug/Kg | — | <MDL | U | 6.3 | 12.4 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 2.9 | 12.1 | ug/Kg | — | <MDL | U | 3 | 12.4 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 2.9 | 12.1 | ug/Kg | — | <MDL | U | 3 | 12.4 | ug/Kg |
| Aroclor 1254 | 3.8 | <RDL | J | 2.9 | 12.1 | ug/Kg | — | <MDL | U | 3 | 12.4 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 2.9 | 12.1 | ug/Kg | — | <MDL | U | 3 | 12.4 | ug/Kg |
| Total Aroclors | 3.8 | <RDL | — | 2.9 | 12.1 | ug/Kg | — | <MDL | — | 6.3 | 12.4 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 6.1 | 12.1 | ug/Kg | — | <MDL | U | 6.3 | 12.4 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12.1 | 12.1 | ug/Kg | — | <MDL | U | 12.4 | 12.4 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 18.1 | 18.1 | ug/Kg | — | <MDL | U | 18.6 | 18.6 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 61 | 121 | ug/Kg | — | <MDL,JG | UJ | 63 | 124 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 61 | 121 | ug/Kg | — | <MDL | U | 63 | 124 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| 3-,4-Methylphenol | 217 | — | — | 61 | 121 | ug/Kg | — | <MDL | U | 63 | 124 | ug/Kg |
| Acenaphthene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Anthracene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 14 | <RDL | J | 12 | 24.2 | ug/Kg | 15 | <RDL | J | 12 | 24.8 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1210 | 1210 | ug/Kg | — | <MDL | U | 1240 | 1240 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | PT320 | | | | | | Z320 | | | | | |
|----------------------------|--|----------|-----------------|------|------|-------|---|----------|-----------------|------|------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| | Locator: PT320 Descrip: COVINGTON CRK NEAR Sample: L56024-24 Matrix: SE FRSHWTRSED ColDate: 8/15/12 12:15 TotalSolid: 44.2 Sample Information: 15 spoons; H2S slight DRY Weight Basis | | | | | | Locator: Z320 Descrip: COVINGTON CREEK BE Sample: L56024-25 Matrix: SE FRSHWTRSED ColDate: 8/15/12 12:45 TotalSolid: 43.1 Sample Information: 20 spoons; H2S slight DRY Weight Basis | | | | | |
| Benzyl Alcohol | — | <MDL | U | 30.1 | 30.1 | ug/Kg | — | <MDL | U | 30.9 | 30.9 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 18.1 | 18.1 | ug/Kg | — | <MDL | U | 18.6 | 18.6 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 410 | 1930 | ug/Kg | — | <MDL | U | 420 | 1980 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 50 | — | — | 25 | 48.2 | ug/Kg | 50.8 | — | — | 26 | 49.4 | ug/Kg |
| Bisphenol A | — | <MDL | U | 410 | 1930 | ug/Kg | — | <MDL | U | 420 | 1980 | ug/Kg |
| Carbazole | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Chrysene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Coprostanol | — | <MDL | U | 410 | 3870 | ug/Kg | 630 | <RDL | J | 420 | 3970 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Diethyl Phthalate | 34 | <RDL | J | 25 | 48.2 | ug/Kg | — | <MDL | U | 26 | 49.4 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 24.2 | 24.2 | ug/Kg | — | <MDL | U | 24.8 | 24.8 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 25 | 48.2 | ug/Kg | — | <MDL | U | 26 | 49.4 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 24.2 | 24.2 | ug/Kg | — | <MDL | U | 24.8 | 24.8 | ug/Kg |
| Fluoranthene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Fluorene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.2 | 2.42 | ug/Kg | — | <MDL | U | 1.2 | 2.48 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 29 | 60.4 | ug/Kg | — | <MDL | U | 30 | 61.9 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Naphthalene | — | <MDL | U | 61 | 121 | ug/Kg | — | <MDL | U | 63 | 124 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 30.1 | 30.1 | ug/Kg | — | <MDL | U | 30.9 | 30.9 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 181 | 181 | ug/Kg | — | <MDL | U | 186 | 186 | ug/Kg |
| Phenanthrene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Phenol | — | <MDL | U | 61 | 181 | ug/Kg | — | <MDL | U | 63 | 186 | ug/Kg |
| Pyrene | — | <MDL | U | 12 | 24.2 | ug/Kg | — | <MDL | U | 12 | 24.8 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 180 | 1930 | ug/Kg | — | <MDL | U | 190 | 1980 | ug/Kg |
| Total HPAHS | 14 | <RDL | — | 12 | 24.2 | ug/Kg | 15 | <RDL | — | 12 | 24.8 | ug/Kg |
| Total LPAHS | — | <MDL | — | 61 | 121 | ug/Kg | — | <MDL | — | 63 | 124 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: S320 | | | | | | | D320 | | | | | |
|---|--------|----------|-----------------|-------|-------|-------|----------------------------------|----------|-----------------|-------|-------|-------|
| Descrip: COVINGTON CR. ON H | | | | | | | JENKINS CREEK//BRI | | | | | |
| Sample: L56024-26 | | | | | | | L56024-27 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/15/12 14:00 | | | | | | | 8/15/12 14:50 | | | | | |
| TotalSolid: 30.5 | | | | | | | 30.4 | | | | | |
| Sample Information: 20 spoons; H2S slight | | | | | | | 15 spoons; equal parts sand/silt | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 10.4 | — | — | 2.1 | 4.2 | % | 45.4 | — | — | 3.2 | 6.5 | % |
| Gravel* | 27.4 | — | — | 0.4 | 4.2 | % | 10 | — | — | 0.7 | 6.5 | % |
| Sand* | 63.8 | — | — | 0.4 | 4.2 | % | 49.1 | — | — | 0.7 | 6.5 | % |
| Silt* | 2.1 | <RDL | J | 2.1 | 4.2 | % | 22.7 | — | — | 3.2 | 6.5 | % |
| Clay* | 8.3 | — | — | 2.1 | 4.2 | % | 22.7 | — | — | 3.2 | 6.5 | % |
| p+0.00* | 6.5 | — | — | 0.4 | 4.2 | % | 6.4 | <RDL | J | 0.7 | 6.5 | % |
| p+1.00* | 11 | — | — | 0.4 | 4.2 | % | 9 | — | — | 0.7 | 6.5 | % |
| p+10.0(equal/more than)* | 8.3 | — | — | 2.1 | 4.2 | % | 19.5 | — | — | 3.2 | 6.5 | % |
| p+2.00* | 20.1 | — | — | 0.4 | 4.2 | % | 8.4 | — | — | 0.7 | 6.5 | % |
| p+3.00* | 16.7 | — | — | 0.4 | 4.2 | % | 12.2 | — | — | 0.7 | 6.5 | % |
| p+4.00* | 9.5 | — | — | 0.4 | 4.2 | % | 13.2 | — | — | 0.7 | 6.5 | % |
| p+5.00* | 2.1 | <RDL | J | 2.1 | 4.2 | % | 16.2 | — | — | 3.2 | 6.5 | % |
| p+6.00* | — | <MDL | U | 2.1 | 4.2 | % | 3.2 | <RDL | J | 3.2 | 6.5 | % |
| p+7.00* | — | <MDL | U | 2.1 | 4.2 | % | 3.2 | <RDL | J | 3.2 | 6.5 | % |
| p+8.00* | — | <MDL | U | 2.1 | 4.2 | % | — | <MDL | U | 3.2 | 6.5 | % |
| p+9.00* | — | <MDL | U | 2.1 | 4.2 | % | 3.2 | <RDL | J | 3.2 | 6.5 | % |
| p-1.00* | 5 | — | — | 0.4 | 4.2 | % | 9 | — | — | 0.7 | 6.5 | % |
| p-2.00(less than)* | 20.9 | — | — | 0.4 | 4.2 | % | — | <MDL | U | 0.7 | 6.5 | % |
| p-2.00* | 1.5 | <RDL | J | 0.4 | 4.2 | % | 1 | <RDL | J | 0.7 | 6.5 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 11.1 | JG | — | 0.75 | 3.03 | mg/Kg | 9.77 | JG | — | 0.79 | 3.12 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 30.5 | — | — | 0.005 | 0.01 | % | 30.4 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.68 | — | — | — | — | pH | 6.77 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 125000 | — | — | 9200 | 18200 | mg/Kg | 112000 | — | — | 11000 | 20800 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | — | <MDL | U | 1.5 | 7.57 | mg/Kg | — | <MDL | U | 1.5 | 7.8 | mg/Kg |
| Cadmium, Extractable, SEM | 0.18 | <RDL | J | 0.12 | 0.607 | mg/Kg | 0.17 | <RDL | J | 0.13 | 0.622 | mg/Kg |
| Chromium, Extractable, SEM | 0.39 | <RDL | J | 0.18 | 0.908 | mg/Kg | 0.63 | <RDL | J | 0.19 | 0.934 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: S320 Descrip: COVINGTON CR. ON H Sample: L56024-26 Matrix: SE FRSHWTRSED ColDate: 8/15/12 14:00 TotalSolid: 30.5 Sample Information: 20 spoons; H2S slight DRY Weight Basis | | D320 JENKINS CREEK//BRI L56024-27 SE FRSHWTRSED 8/15/12 14:50 30.4 15 spoons; equal parts sand/silt DRY Weight Basis | | | | | | | | | | |
|---|-------|---|-----------------|-------|---------|-------|--------|----------|-----------------|--------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 4.92 | — | — | 0.24 | 1.21 | mg/Kg | 4.61 | — | — | 0.25 | 1.25 | mg/Kg |
| Lead, Extractable, SEM | 10.4 | — | — | 1.2 | 6.07 | mg/Kg | 9.61 | — | — | 1.3 | 6.22 | mg/Kg |
| Nickel, Extractable, SEM | 0.66 | <RDL | J | 0.3 | 1.51 | mg/Kg | 1.1 | <RDL | J | 0.31 | 1.56 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.24 | 1.21 | mg/Kg | — | <MDL | U | 0.25 | 1.25 | mg/Kg |
| Zinc, Extractable, SEM | 10.9 | — | — | 0.3 | 1.51 | mg/Kg | 27.5 | — | — | 0.31 | 1.56 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.003 | 0.00908 | mg/Kg | 0.0036 | <RDL | J | 0.0031 | 0.00934 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 2.68 | — | — | 0.03 | 0.152 | mg/Kg | 2.53 | — | — | 0.032 | 0.158 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.165 | — | — | 0.015 | 0.0757 | mg/Kg | 0.229 | — | — | 0.016 | 0.0793 | mg/Kg |
| Chromium, Total, ICP-MS | 9.61 | — | — | 0.062 | 0.304 | mg/Kg | 6.91 | — | — | 0.063 | 0.316 | mg/Kg |
| Copper, Total, ICP-MS | 8.95 | — | — | 0.12 | 0.607 | mg/Kg | 8.59 | — | — | 0.13 | 0.632 | mg/Kg |
| Lead, Total, ICP-MS | 11.4 | — | — | 0.03 | 0.152 | mg/Kg | 11.5 | — | — | 0.032 | 0.158 | mg/Kg |
| Nickel, Total, ICP-MS | 6.39 | — | — | 0.03 | 0.152 | mg/Kg | 5.49 | — | — | 0.032 | 0.158 | mg/Kg |
| Silver, Total, ICP-MS | 0.036 | <RDL | J | 0.012 | 0.0607 | mg/Kg | 0.046 | <RDL | J | 0.013 | 0.0632 | mg/Kg |
| Zinc, Total, ICP-MS | 21.2 | — | — | 0.15 | 0.757 | mg/Kg | 42.8 | — | — | 0.16 | 0.793 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.062 | <RDL | J | 0.016 | 0.156 | mg/Kg | 0.063 | <RDL | J | 0.016 | 0.161 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Aldrin | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Beta-BHC | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Delta-BHC | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Dieldrin | — | <MDL | U | 1.7 | 3.51 | ug/Kg | 3.55 | — | — | 1.7 | 3.52 | ug/Kg |
| Endosulfan I | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Endosulfan II | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Endrin | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: S320 Descrip: COVINGTON CR. ON H Sample: L56024-26 Matrix: SE FRSHWTRSED ColDate: 8/15/12 14:00 TotalSolid: 30.5 Sample Information: 20 spoons; H2S slight DRY Weight Basis | | D320 JENKINS CREEK//BRI L56024-27 SE FRSHWTRSED 8/15/12 14:50 30.4 15 spoons; equal parts sand/silt DRY Weight Basis | | | | | | | | | | |
|---|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| Methoxychlor | — | <MDL | U | 8.9 | 17.5 | ug/Kg | — | <MDL | U | 8.9 | 17.5 | ug/Kg |
| Toxaphene | — | <MDL | U | 36 | 175 | ug/Kg | — | <MDL | U | 36 | 175 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.7 | 3.51 | ug/Kg | — | <MDL | U | 1.7 | 3.52 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 4.3 | 17.5 | ug/Kg | — | <MDL | U | 4.3 | 17.5 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 8.9 | 17.5 | ug/Kg | — | <MDL | U | 8.9 | 17.5 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 8.9 | 17.5 | ug/Kg | — | <MDL | U | 8.9 | 17.5 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 4.3 | 17.5 | ug/Kg | — | <MDL | U | 4.3 | 17.5 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 4.3 | 17.5 | ug/Kg | — | <MDL | U | 4.3 | 17.5 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 4.3 | 17.5 | ug/Kg | — | <MDL | U | 4.3 | 17.5 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 4.3 | 17.5 | ug/Kg | — | <MDL | U | 4.3 | 17.5 | ug/Kg |
| Total Aroclors | — | <MDL | — | 8.9 | 17.5 | ug/Kg | — | <MDL | — | 8.9 | 17.5 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 6.6 | 12.8 | ug/Kg | — | <MDL | U | 6.6 | 12.8 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12.8 | 12.8 | ug/Kg | — | <MDL | U | 12.8 | 12.8 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 19.2 | 19.2 | ug/Kg | — | <MDL | U | 19.2 | 19.2 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 66 | 128 | ug/Kg | — | <MDL,JG | UJ | 66 | 128 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 66 | 128 | ug/Kg | — | <MDL | U | 66 | 128 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| 3-,4-Methylphenol | 393 | — | — | 66 | 128 | ug/Kg | 305 | — | — | 66 | 128 | ug/Kg |
| Acenaphthene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Anthracene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 13 | 25.6 | ug/Kg | 21 | <RDL | J | 13 | 25.7 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 13 | 25.6 | ug/Kg | 21 | <RDL | J | 13 | 25.7 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 23 | <RDL | J | 13 | 25.6 | ug/Kg | 78.6 | — | — | 13 | 25.7 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1280 | 1280 | ug/Kg | — | <MDL | U | 1280 | 1280 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | S320 | | | | | | D320 | | | | | |
|----------------------------|-------|----------|-----------------|------|-------|-------|-------|----------|-----------------|------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Benzyl Alcohol | — | <MDL | U | 32 | 32 | ug/Kg | — | <MDL | U | 32.1 | 32.1 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 19.2 | 19.2 | ug/Kg | — | <MDL | U | 19.2 | 19.2 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 430 | 2050 | ug/Kg | — | <MDL | U | 430 | 2050 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 46 | <RDL | J | 26 | 51.1 | ug/Kg | 71.1 | — | — | 26 | 51.3 | ug/Kg |
| Bisphenol A | — | <MDL | U | 430 | 2050 | ug/Kg | — | <MDL | U | 430 | 2050 | ug/Kg |
| Carbazole | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Chrysene | — | <MDL | U | 13 | 25.6 | ug/Kg | 47.4 | — | — | 13 | 25.7 | ug/Kg |
| Coprostanol | — | <MDL | U | 2100 | 20500 | ug/Kg | — | <MDL | U | 2100 | 20500 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 26 | 51.1 | ug/Kg | — | <MDL | U | 26 | 51.3 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 25.6 | 25.6 | ug/Kg | — | <MDL | U | 25.7 | 25.7 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 26 | 51.1 | ug/Kg | — | <MDL | U | 26 | 51.3 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 25.6 | 25.6 | ug/Kg | — | <MDL | U | 25.7 | 25.7 | ug/Kg |
| Fluoranthene | 23 | <RDL | J | 13 | 25.6 | ug/Kg | 74.3 | — | — | 13 | 25.7 | ug/Kg |
| Fluorene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.3 | 2.56 | ug/Kg | — | <MDL | U | 1.3 | 2.57 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 32 | 63.9 | ug/Kg | — | <MDL | U | 32 | 64.1 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 13 | 25.6 | ug/Kg | — | <MDL | U | 13 | 25.7 | ug/Kg |
| Naphthalene | — | <MDL | U | 66 | 128 | ug/Kg | — | <MDL | U | 66 | 128 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 32 | 32 | ug/Kg | — | <MDL | U | 32.1 | 32.1 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 192 | 192 | ug/Kg | — | <MDL | U | 192 | 192 | ug/Kg |
| Phenanthrene | — | <MDL | U | 13 | 25.6 | ug/Kg | 31 | — | — | 13 | 25.7 | ug/Kg |
| Phenol | — | <MDL | U | 66 | 192 | ug/Kg | — | <MDL | U | 66 | 192 | ug/Kg |
| Pyrene | 17 | <RDL | J | 13 | 25.6 | ug/Kg | 60.5 | — | — | 13 | 25.7 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 190 | 2050 | ug/Kg | — | <MDL | U | 190 | 2050 | ug/Kg |
| Total HPAHS | 63.6 | — | — | 13 | 25.6 | ug/Kg | 303 | — | — | 13 | 25.7 | ug/Kg |
| Total LPAHS | — | <MDL | — | 66 | 128 | ug/Kg | 31 | — | — | 13 | 25.7 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
|--|--------|----------|-----------------|-------|-------|-------|---------------------------|----------|-----------------|-------|-------|-------|
| Locator: WX320 | | | | | | | JK320 | | | | | |
| Descrip: JENKINS CRK AT WAX | | | | | | | JENKLINS CREEK DOW | | | | | |
| Sample: L56024-28 | | | | | | | L56024-29 | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: 8/27/12 10:00 | | | | | | | 8/27/12 10:25 | | | | | |
| TotalSolid: 13.2 | | | | | | | 15.6 | | | | | |
| Sample Information: 20 spoons; very fine, floc-y material, H2S moderate | | | | | | | 20 spoons; D.S. of bridge | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 50.2 | — | — | 4.6 | 9.1 | % | 21.9 | — | — | 2.2 | 4.4 | % |
| Gravel* | — | <MDL | U | 0.9 | 9.1 | % | 44.2 | — | — | 0.4 | 4.4 | % |
| Sand* | 41 | — | — | 0.9 | 9.1 | % | 34.7 | — | — | 0.4 | 4.4 | % |
| Silt* | 22.8 | — | — | 4.6 | 9.1 | % | 13.2 | — | — | 2.2 | 4.4 | % |
| Clay* | 27.4 | — | — | 4.6 | 9.1 | % | 8.8 | — | — | 2.2 | 4.4 | % |
| p+0.00* | — | <MDL | U | 0.9 | 9.1 | % | 9.6 | — | — | 0.4 | 4.4 | % |
| p+1.00* | 4.4 | <RDL | J | 0.9 | 9.1 | % | 6.1 | — | — | 0.4 | 4.4 | % |
| p+10.0(equal/more than)* | 22.8 | — | — | 4.6 | 9.1 | % | 8.8 | — | — | 2.2 | 4.4 | % |
| p+2.00* | 6 | <RDL | J | 0.9 | 9.1 | % | 4.1 | <RDL | J | 0.4 | 4.4 | % |
| p+3.00* | 9.1 | RDL | — | 0.9 | 9.1 | % | 5.6 | — | — | 0.4 | 4.4 | % |
| p+4.00* | 21.4 | — | — | 0.9 | 9.1 | % | 9.2 | — | — | 0.4 | 4.4 | % |
| p+5.00* | 18.3 | — | — | 4.6 | 9.1 | % | 8.8 | — | — | 2.2 | 4.4 | % |
| p+6.00* | — | <MDL | U | 4.6 | 9.1 | % | 2.2 | <RDL | J | 2.2 | 4.4 | % |
| p+7.00* | 4.6 | <RDL | J | 4.6 | 9.1 | % | 2.2 | <RDL | J | 2.2 | 4.4 | % |
| p+8.00* | — | <MDL | U | 4.6 | 9.1 | % | — | <MDL | U | 2.2 | 4.4 | % |
| p+9.00* | 4.6 | <RDL | J | 4.6 | 9.1 | % | — | <MDL | U | 2.2 | 4.4 | % |
| p-1.00* | — | <MDL | U | 0.9 | 9.1 | % | 15 | — | — | 0.4 | 4.4 | % |
| p-2.00(less than)* | — | <MDL | U | 0.9 | 9.1 | % | 27.2 | — | — | 0.4 | 4.4 | % |
| p-2.00* | — | <MDL | U | 0.9 | 9.1 | % | 2.1 | <RDL | J | 0.4 | 4.4 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 22.6 | JG | — | 1.9 | 7.53 | mg/Kg | 39 | JG | — | 1.5 | 6.06 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 13.2 | — | — | 0.005 | 0.01 | % | 15.6 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.8 | — | — | — | — | pH | 6.52 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 133000 | — | — | 16000 | 31500 | mg/Kg | 168000 | — | — | 17000 | 34300 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | — | <MDL | U | 3.8 | 18.9 | mg/Kg | — | <MDL | U | 3 | 15.1 | mg/Kg |
| Cadmium, Extractable, SEM | 0.53 | <RDL | J | 0.3 | 1.51 | mg/Kg | 0.47 | <RDL | J | 0.24 | 1.21 | mg/Kg |
| Chromium, Extractable, SEM | 11 | — | — | 0.45 | 2.26 | mg/Kg | 1.2 | <RDL | J | 0.37 | 1.82 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: | | WX320 | | | | | JK320 | | | | | |
|--|-------|---|-----------------|--------|--------|-------|---------------------------|----------|-----------------|--------|--------|-------|
| Descrip: | | JENKINS CRK AT WAX | | | | | JENKLINS CREEK DOW | | | | | |
| Sample: | | L56024-28 | | | | | L56024-29 | | | | | |
| Matrix: | | SE FRSHWTRSED | | | | | SE FRSHWTRSED | | | | | |
| ColDate: | | 8/27/12 10:00 | | | | | 8/27/12 10:25 | | | | | |
| TotalSolid: | | 13.2 | | | | | 15.6 | | | | | |
| Sample Information: | | 20 spoons; very fine, floc-y material, H2S moderate | | | | | 20 spoons; D.S. of bridge | | | | | |
| | | DRY Weight Basis | | | | | DRY Weight Basis | | | | | |
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 14.2 | — | — | 0.61 | 3.02 | mg/Kg | 13.6 | — | — | 0.49 | 2.42 | mg/Kg |
| Lead, Extractable, SEM | 63 | — | — | 3 | 15.1 | mg/Kg | 16.4 | — | — | 2.4 | 12.1 | mg/Kg |
| Nickel, Extractable, SEM | 3.5 | <RDL | J | 0.75 | 3.77 | mg/Kg | 3.51 | — | — | 0.61 | 3.03 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.61 | 3.02 | mg/Kg | — | <MDL | U | 0.49 | 2.42 | mg/Kg |
| Zinc, Extractable, SEM | 105 | — | — | 0.75 | 3.77 | mg/Kg | 61.3 | — | — | 0.61 | 3.03 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.0075 | 0.0226 | mg/Kg | — | <MDL | U | 0.0061 | 0.0182 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 4.64 | — | — | 0.072 | 0.358 | mg/Kg | 4.55 | — | — | 0.05 | 0.251 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.579 | — | — | 0.036 | 0.179 | mg/Kg | 0.497 | — | — | 0.025 | 0.125 | mg/Kg |
| Chromium, Total, ICP-MS | 14.9 | — | — | 0.14 | 0.717 | mg/Kg | 11 | — | — | 0.1 | 0.501 | mg/Kg |
| Copper, Total, ICP-MS | 18.8 | — | — | 0.29 | 1.43 | mg/Kg | 17.8 | — | — | 0.2 | 1 | mg/Kg |
| Lead, Total, ICP-MS | 24.7 | — | — | 0.072 | 0.358 | mg/Kg | 16.3 | — | — | 0.05 | 0.251 | mg/Kg |
| Nickel, Total, ICP-MS | 11.1 | — | — | 0.072 | 0.358 | mg/Kg | 9.17 | — | — | 0.05 | 0.251 | mg/Kg |
| Silver, Total, ICP-MS | 0.091 | <RDL | J | 0.029 | 0.143 | mg/Kg | 0.071 | <RDL | J | 0.02 | 0.1 | mg/Kg |
| Zinc, Total, ICP-MS | 90.9 | — | — | 0.36 | 1.79 | mg/Kg | 80.8 | — | — | 0.25 | 1.25 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.19 | <RDL | J | 0.037 | 0.372 | mg/Kg | 0.11 | <RDL | J | 0.032 | 0.321 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Aldrin | — | <MDL | UJ | 4 | 8.11 | ug/Kg | — | <MDL | UJ | 3.4 | 6.86 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Beta-BHC | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Delta-BHC | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Dieldrin | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Endosulfan I | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Endosulfan II | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Endrin | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | WX320 | | | | | | JK320 | | | | | |
|-----------------------------------|---|----------|-----------------|------|------|-------|---------------------------|----------|-----------------|------|------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Locator: | WX320 | | | | | | JK320 | | | | | |
| Descrip: | JENKINS CRK AT WAX | | | | | | JENKINS CREEK DOW | | | | | |
| Sample: | L56024-28 | | | | | | L56024-29 | | | | | |
| Matrix: | SE FRSHWTRSED | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: | 8/27/12 10:00 | | | | | | 8/27/12 10:25 | | | | | |
| TotalSolid: | 13.2 | | | | | | 15.6 | | | | | |
| Sample Information: | 20 spoons; very fine, floc-y material, H2S moderate | | | | | | 20 spoons; D.S. of bridge | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| Endrin Aldehyde | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Heptachlor | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| Methoxychlor | — | <MDL | U | 20 | 40.4 | ug/Kg | — | <MDL | U | 17 | 34.2 | ug/Kg |
| Toxaphene | — | <MDL | U | 83 | 404 | ug/Kg | — | <MDL | U | 71 | 342 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 4 | 8.11 | ug/Kg | — | <MDL | U | 3.4 | 6.86 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 9.8 | 40.4 | ug/Kg | — | <MDL | U | 8.3 | 34.2 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 20 | 40.4 | ug/Kg | — | <MDL | U | 17 | 34.2 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 20 | 40.4 | ug/Kg | — | <MDL | U | 17 | 34.2 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 9.8 | 40.4 | ug/Kg | — | <MDL | U | 8.3 | 34.2 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 9.8 | 40.4 | ug/Kg | — | <MDL | U | 8.3 | 34.2 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 9.8 | 40.4 | ug/Kg | — | <MDL | U | 8.3 | 34.2 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 9.8 | 40.4 | ug/Kg | — | <MDL | U | 8.3 | 34.2 | ug/Kg |
| Total Aroclors | — | <MDL | — | 20 | 40.4 | ug/Kg | — | <MDL | — | 17 | 34.2 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 6.4 | 12.7 | ug/Kg | — | <MDL | U | 6 | 12.1 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12.7 | 12.7 | ug/Kg | — | <MDL | U | 12.1 | 12.1 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 19.2 | 19.2 | ug/Kg | — | <MDL | U | 18.1 | 18.1 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL | UJ | 64 | 127 | ug/Kg | — | <MDL | UJ | 60 | 121 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| 2-Methylphenol | — | <MDL | UJ | 13 | 25.5 | ug/Kg | — | <MDL | UJ | 12 | 24.1 | ug/Kg |
| 3-,4-Methylphenol | 1140 | — | — | 64 | 127 | ug/Kg | 176 | — | — | 60 | 121 | ug/Kg |
| Acenaphthene | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Anthracene | 25.8 | — | — | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| Benzo(b,j,k)fluoranthene | 138 | — | — | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1270 | 1270 | ug/Kg | — | <MDL | U | 1210 | 1210 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
|----------------------------|----------------|----------|-----------------|------|-------|-------|-------|----------|-----------------|------|-------|-------|
| | Benzyl Alcohol | — | <MDL | U | 31.9 | 31.9 | ug/Kg | — | <MDL | U | 30.2 | 30.2 |
| Benzyl Butyl Phthalate | — | <MDL | U | 19.2 | 19.2 | ug/Kg | 34.8 | — | — | 18.1 | 18.1 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 420 | 2040 | ug/Kg | — | <MDL | U | 400 | 1930 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 151 | B2 | U | 26 | 51.1 | ug/Kg | 241 | — | — | 24 | 48.3 | ug/Kg |
| Bisphenol A | — | <MDL | U | 420 | 2040 | ug/Kg | — | <MDL | U | 400 | 1930 | ug/Kg |
| Carbazole | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Chrysene | 86.4 | — | — | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Coprostanol | — | <MDL | U | 2100 | 20400 | ug/Kg | — | <MDL | U | 2000 | 19300 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 26 | 51.1 | ug/Kg | 328 | — | — | 24 | 48.3 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 25.5 | 25.5 | ug/Kg | 34.9 | — | — | 24.1 | 24.1 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 26 | 51.1 | ug/Kg | — | <MDL | U | 24 | 48.3 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 127 | 127 | ug/Kg | — | <MDL | U | 121 | 121 | ug/Kg |
| Fluoranthene | 127 | — | — | 13 | 25.5 | ug/Kg | 31 | — | — | 12 | 24.1 | ug/Kg |
| Fluorene | — | <MDL | U | 13 | 25.5 | ug/Kg | — | <MDL | U | 12 | 24.1 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.3 | 2.55 | ug/Kg | — | <MDL | U | 1.2 | 2.41 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 32 | 63.8 | ug/Kg | — | <MDL | U | 30 | 60.3 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| Naphthalene | — | <MDL | U | 64 | 127 | ug/Kg | — | <MDL | U | 60 | 121 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 31.9 | 31.9 | ug/Kg | — | <MDL | U | 30.2 | 30.2 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 192 | 192 | ug/Kg | — | <MDL | U | 181 | 181 | ug/Kg |
| Phenanthrene | 88.6 | — | — | 13 | 25.5 | ug/Kg | 20 | <RDL | J | 12 | 24.1 | ug/Kg |
| Phenol | — | <MDL | UJ | 64 | 192 | ug/Kg | — | <MDL | UJ | 60 | 181 | ug/Kg |
| Pyrene | 120 | — | — | 13 | 25.5 | ug/Kg | 30 | — | — | 12 | 24.1 | ug/Kg |
| Total 4-Nonylphenol | | <MDL,J | U | 190 | 2040 | ug/Kg | | <MDL,J | U | 180 | 1930 | ug/Kg |
| Total HPAHS | 471 | — | — | 13 | 25.5 | ug/Kg | 61 | — | — | 12 | 24.1 | ug/Kg |
| Total LPAHS | 114 | — | — | 13 | 25.5 | ug/Kg | 20 | <RDL | — | 12 | 24.1 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | FR320 | | | | | | LW320 | | | | | |
|-----------------------------|-------------------------|----------|-----------------|-------|-------|-------|-----------------------------------|----------|-----------------|-------|-------|-------|
| | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Locator: | FR320 | | | | | | LW320 | | | | | |
| Descrip: | JENKINS CRK AT FRO | | | | | | JENKINS LK. WILDER | | | | | |
| Sample: | L56024-30 | | | | | | L56024-33 | | | | | |
| Matrix: | SE FRSHWTRSED | | | | | | SE FRSHWTRSED | | | | | |
| ColDate: | 8/27/12 12:30 | | | | | | 8/27/12 11:45 | | | | | |
| TotalSolid: | 14.9 | | | | | | 13.5 | | | | | |
| Sample Information: | 20 spoons; PSD QC | | | | | | 20 spoons; D.S. of road, odd odor | | | | | |
| | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | |
| CV ASTM D422 | | | | | | | | | | | | |
| Fines* | 61.8 | — | — | 4.4 | 8.8 | % | 69.6 | — | — | 4.1 | 8.2 | % |
| Gravel* | 19.6 | — | — | 0.9 | 8.8 | % | 2.1 | <RDL | J | 0.8 | 8.2 | % |
| Sand* | 19.8 | — | — | 0.9 | 8.8 | % | 28.2 | — | — | 0.8 | 8.2 | % |
| Silt* | 30.9 | — | — | 4.4 | 8.8 | % | 41 | — | — | 4.1 | 8.2 | % |
| Clay* | 30.9 | — | — | 4.4 | 8.8 | % | 28.7 | — | — | 4.1 | 8.2 | % |
| p+0.00* | — | <MDL | U | 0.9 | 8.8 | % | 2.2 | <RDL | J | 0.8 | 8.2 | % |
| p+1.00* | 1.4 | <RDL | J | 0.9 | 8.8 | % | 2 | <RDL | J | 0.8 | 8.2 | % |
| p+10.0(equal/more than)* | 26.5 | — | — | 4.4 | 8.8 | % | 24.6 | — | — | 4.1 | 8.2 | % |
| p+2.00* | 3.4 | <RDL | J | 0.9 | 8.8 | % | 3.1 | <RDL | J | 0.8 | 8.2 | % |
| p+3.00* | 6.2 | <RDL | J | 0.9 | 8.8 | % | 7 | <RDL | J | 0.8 | 8.2 | % |
| p+4.00* | 8.8 | RDL | — | 0.9 | 8.8 | % | 13.8 | — | — | 0.8 | 8.2 | % |
| p+5.00* | 22.1 | — | — | 4.4 | 8.8 | % | 24.6 | — | — | 4.1 | 8.2 | % |
| p+6.00* | 4.4 | <RDL | J | 4.4 | 8.8 | % | — | <MDL | U | 4.1 | 8.2 | % |
| p+7.00* | 4.4 | <RDL | J | 4.4 | 8.8 | % | 8.2 | RDL | — | 4.1 | 8.2 | % |
| p+8.00* | — | <MDL | U | 4.4 | 8.8 | % | 8.2 | RDL | — | 4.1 | 8.2 | % |
| p+9.00* | 4.4 | <RDL | J | 4.4 | 8.8 | % | 4.1 | <RDL | J | 4.1 | 8.2 | % |
| p-1.00* | — | <MDL | U | 0.9 | 8.8 | % | 2.1 | <RDL | J | 0.8 | 8.2 | % |
| p-2.00(less than)* | 19.6 | — | — | 0.9 | 8.8 | % | — | <MDL | U | 0.8 | 8.2 | % |
| p-2.00* | — | <MDL | U | 0.9 | 8.8 | % | — | <MDL | U | 0.8 | 8.2 | % |
| CV EPA DEC 1991 | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 23 | JG | — | 1.7 | 6.62 | mg/Kg | 1210 | JG | — | 44 | 179 | mg/Kg |
| CV SM2540-G | | | | | | | | | | | | |
| Total Solids* | 14.9 | — | — | 0.005 | 0.01 | % | 13.5 | — | — | 0.005 | 0.01 | % |
| CV SW846 9045D | | | | | | | | | | | | |
| pH* | 6.78 | — | — | — | — | pH | 6.24 | — | — | — | — | pH |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | |
| Total Organic Carbon | 112000 | — | — | 11000 | 21300 | mg/Kg | 146000 | — | — | 21000 | 43600 | mg/Kg |
| MT EPA 1991/200.7 | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 4.2 | <RDL | J | 3.3 | 16.6 | mg/Kg | — | <MDL | U | 3.6 | 17.9 | mg/Kg |
| Cadmium, Extractable, SEM | 0.46 | <RDL | J | 0.26 | 1.32 | mg/Kg | 0.43 | <RDL | J | 0.28 | 1.42 | mg/Kg |
| Chromium, Extractable, SEM | 0.94 | <RDL | J | 0.4 | 1.99 | mg/Kg | 3.85 | — | — | 0.43 | 2.14 | mg/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: FR320 Descrip: JENKINS CRK AT FRO Sample: L56024-30 Matrix: SE FRSHWTRSED ColDate: 8/27/12 12:30 TotalSolid: 14.9 Sample Information: 20 spoons; PSD QC DRY Weight Basis | | LW320 JENKINS LK. WILDER L56024-33 SE FRSHWTRSED 8/27/12 11:45 13.5 20 spoons; D.S. of road, odd odor DRY Weight Basis | | | | | | | | | | |
|--|--------|---|-----------------|--------|--------|-------|-------|----------|-----------------|--------|--------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 18.6 | — | — | 0.53 | 2.65 | mg/Kg | 20.8 | — | — | 0.57 | 2.85 | mg/Kg |
| Lead, Extractable, SEM | 14 | — | — | 2.6 | 13.2 | mg/Kg | 29 | — | — | 2.8 | 14.2 | mg/Kg |
| Nickel, Extractable, SEM | 4.34 | — | — | 0.66 | 3.31 | mg/Kg | 3.3 | <RDL | J | 0.71 | 3.56 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.53 | 2.65 | mg/Kg | — | <MDL | U | 0.57 | 2.85 | mg/Kg |
| Zinc, Extractable, SEM | 52.3 | — | — | 0.66 | 3.31 | mg/Kg | 94.8 | — | — | 0.71 | 3.56 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | 0.0074 | <RDL | J | 0.0066 | 0.0199 | mg/Kg | — | <MDL | U | 0.0071 | 0.0214 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 6.45 | — | — | 0.065 | 0.326 | mg/Kg | 10.7 | — | — | 0.074 | 0.386 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.5 | — | — | 0.033 | 0.163 | mg/Kg | 0.353 | — | — | 0.039 | 0.193 | mg/Kg |
| Chromium, Total, ICP-MS | 12.4 | — | — | 0.13 | 0.652 | mg/Kg | 20.1 | — | — | 0.16 | 0.77 | mg/Kg |
| Copper, Total, ICP-MS | 20.1 | — | — | 0.26 | 1.3 | mg/Kg | 26.7 | — | — | 0.31 | 1.54 | mg/Kg |
| Lead, Total, ICP-MS | 13.5 | — | — | 0.065 | 0.326 | mg/Kg | 25.5 | — | — | 0.074 | 0.386 | mg/Kg |
| Nickel, Total, ICP-MS | 11.3 | — | — | 0.065 | 0.326 | mg/Kg | 12.1 | — | — | 0.074 | 0.386 | mg/Kg |
| Silver, Total, ICP-MS | 0.074 | <RDL | J | 0.026 | 0.13 | mg/Kg | 0.089 | <RDL | J | 0.031 | 0.154 | mg/Kg |
| Zinc, Total, ICP-MS | 69.8 | — | — | 0.33 | 1.63 | mg/Kg | 113 | — | — | 0.39 | 1.93 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.15 | <RDL | J | 0.033 | 0.329 | mg/Kg | 0.089 | <RDL | J | 0.036 | 0.359 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Aldrin | — | <MDL | UJ | 3.6 | 7.18 | ug/Kg | — | <MDL | UJ | 3.9 | 7.93 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Beta-BHC | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Delta-BHC | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Dieldrin | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Endosulfan I | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Endosulfan II | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Endrin | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: FR320 Descrip: JENKINS CRK AT FRO Sample: L56024-30 Matrix: SE FRSHWTRSED ColDate: 8/27/12 12:30 TotalSolid: 14.9 Sample Information: 20 spoons; PSD QC DRY Weight Basis | | LW320 JENKINS LK. WILDER L56024-33 SE FRSHWTRSED 8/27/12 11:45 13.5 20 spoons; D.S. of road, odd odor DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Heptachlor | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| Methoxychlor | — | <MDL | U | 18 | 35.8 | ug/Kg | — | <MDL | U | 20 | 39.5 | ug/Kg |
| Toxaphene | — | <MDL | U | 74 | 358 | ug/Kg | — | <MDL | U | 81 | 395 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 3.6 | 7.18 | ug/Kg | — | <MDL | U | 3.9 | 7.93 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 8.7 | 35.8 | ug/Kg | — | <MDL | U | 9.6 | 39.5 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 18 | 35.8 | ug/Kg | — | <MDL | U | 20 | 39.5 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 18 | 35.8 | ug/Kg | — | <MDL | U | 20 | 39.5 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 8.7 | 35.8 | ug/Kg | — | <MDL | U | 9.6 | 39.5 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 8.7 | 35.8 | ug/Kg | — | <MDL | U | 9.6 | 39.5 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 8.7 | 35.8 | ug/Kg | 43.7 | — | — | 9.6 | 39.5 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 8.7 | 35.8 | ug/Kg | 19 | <RDL | J | 9.6 | 39.5 | ug/Kg |
| Total Aroclors | — | <MDL | — | 18 | 35.8 | ug/Kg | 63 | — | — | 9.6 | 39.5 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 6.3 | 12.6 | ug/Kg | — | <MDL | U | 6.2 | 12.4 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 12.6 | 12.6 | ug/Kg | — | <MDL | U | 12.4 | 12.4 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 18.9 | 18.9 | ug/Kg | — | <MDL | U | 18.7 | 18.7 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL | UJ | 63 | 126 | ug/Kg | — | <MDL | UJ | 62 | 124 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 63 | 126 | ug/Kg | — | <MDL | U | 62 | 124 | ug/Kg |
| 2-Methylphenol | — | <MDL | UJ | 13 | 25.2 | ug/Kg | 19 | <RDL | J | 13 | 25 | ug/Kg |
| 3-,4-Methylphenol | 451 | — | — | 63 | 126 | ug/Kg | — | <MDL | U | 62 | 124 | ug/Kg |
| Acenaphthene | — | <MDL | U | 13 | 25.2 | ug/Kg | 186 | — | — | 13 | 25 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 13 | 25.2 | ug/Kg | — | <MDL | U | 13 | 25 | ug/Kg |
| Anthracene | — | <MDL | U | 13 | 25.2 | ug/Kg | 52.5 | — | — | 13 | 25 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 13 | 25.2 | ug/Kg | — | <MDL | U | 13 | 25 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 63 | 126 | ug/Kg | 69 | <RDL | J | 62 | 124 | ug/Kg |
| Benzo(b,j,k)fluoranthene | — | <MDL | U | 63 | 126 | ug/Kg | 174 | — | — | 62 | 124 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 63 | 126 | ug/Kg | — | <MDL | U | 62 | 124 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1260 | 1260 | ug/Kg | — | <MDL | U | 1240 | 1240 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
|----------------------------|----------------|----------|-----------------|------|-------|-------|-------|----------|-----------------|------|-------|-------|
| | Benzyl Alcohol | — | <MDL | U | 31.6 | 31.6 | ug/Kg | — | <MDL | U | 31.2 | 31.2 |
| Benzyl Butyl Phthalate | — | <MDL | U | 18.9 | 18.9 | ug/Kg | — | <MDL | U | 18.7 | 18.7 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 420 | 2020 | ug/Kg | — | <MDL | U | 410 | 1990 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 109 | B | U | 26 | 50.5 | ug/Kg | 336 | — | — | 25 | 49.9 | ug/Kg |
| Bisphenol A | — | <MDL | U | 420 | 2020 | ug/Kg | — | <MDL | U | 410 | 1990 | ug/Kg |
| Carbazole | — | <MDL | U | 13 | 25.2 | ug/Kg | 16 | <RDL | — | 13 | 25 | ug/Kg |
| Chrysene | — | <MDL | U | 13 | 25.2 | ug/Kg | 91.9 | — | — | 13 | 25 | ug/Kg |
| Coprostanol | — | <MDL | U | 2100 | 20200 | ug/Kg | — | <MDL | U | 2100 | 19900 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 63 | 126 | ug/Kg | — | <MDL | U | 62 | 124 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 13 | 25.2 | ug/Kg | 89.6 | — | — | 13 | 25 | ug/Kg |
| Diethyl Phthalate | 64.6 | — | — | 26 | 50.5 | ug/Kg | — | <MDL | U | 25 | 49.9 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 25.2 | 25.2 | ug/Kg | — | <MDL | U | 25 | 25 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 26 | 50.5 | ug/Kg | — | <MDL | U | 25 | 49.9 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 126 | 126 | ug/Kg | — | <MDL | U | 124 | 124 | ug/Kg |
| Fluoranthene | 17 | <RDL | J | 13 | 25.2 | ug/Kg | 193 | — | — | 13 | 25 | ug/Kg |
| Fluorene | — | <MDL | U | 13 | 25.2 | ug/Kg | 205 | — | — | 13 | 25 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.3 | 2.52 | ug/Kg | — | <MDL | U | 1.3 | 2.5 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 32 | 63.2 | ug/Kg | — | <MDL | U | 31 | 62.4 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 63 | 126 | ug/Kg | — | <MDL | U | 62 | 124 | ug/Kg |
| Naphthalene | — | <MDL | U | 63 | 126 | ug/Kg | — | <MDL | U | 62 | 124 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 31.6 | 31.6 | ug/Kg | — | <MDL | U | 31.2 | 31.2 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 189 | 189 | ug/Kg | — | <MDL | U | 187 | 187 | ug/Kg |
| Phenanthrene | — | <MDL | U | 13 | 25.2 | ug/Kg | 208 | — | — | 13 | 25 | ug/Kg |
| Phenol | — | <MDL | UJ | 63 | 189 | ug/Kg | — | <MDL | UJ | 62 | 187 | ug/Kg |
| Pyrene | 15 | <RDL | J | 13 | 25.2 | ug/Kg | 168 | — | — | 13 | 25 | ug/Kg |
| Total 4-Nonylphenol | | <MDL,J | U | 190 | 2020 | ug/Kg | | <MDL,J | U | 190 | 1990 | ug/Kg |
| Total HPAHS | 32.9 | — | — | 13 | 25.2 | ug/Kg | 696 | — | — | 13 | 25 | ug/Kg |
| Total LPAHS | — | <MDL | — | 63 | 126 | ug/Kg | 652 | — | — | 13 | 25 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units | |
|--|-------|----------|-----------------|-------|-------|-------|--|----------|-----------------|-------|-------|-------|--|
| Locator: FL319 | | | | | | | 0318 | | | | | | |
| Descrip: GREEN RIVER, DOWNS | | | | | | | GREEN RIVER/EAST V | | | | | | |
| Sample: L56024-34 | | | | | | | L56024-35 | | | | | | |
| Matrix: SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | | |
| ColDate: 8/29/12 10:10 | | | | | | | 8/29/12 12:40 | | | | | | |
| TotalSolid: 74 | | | | | | | 61.4 | | | | | | |
| Sample Information: 3 Ponar casts; all sand | | | | | | | 20 spoons; U. S. of bridge, deep and rocky | | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | |
| CV ASTM D422 | | | | | | | | | | | | | |
| Fines* | 2.4 | — | — | 0.6 | 1.2 | % | 8.8 | — | — | 0.8 | 1.6 | % | |
| Gravel* | 9.4 | — | — | 0.1 | 1.2 | % | — | <MDL | U | 0.2 | 1.6 | % | |
| Sand* | 90.2 | — | — | 0.1 | 1.2 | % | 87.1 | — | — | 0.2 | 1.6 | % | |
| Silt* | — | <MDL | U | 0.6 | 1.2 | % | 4.8 | — | — | 0.8 | 1.6 | % | |
| Clay* | 2.4 | — | — | 0.6 | 1.2 | % | 4 | — | — | 0.8 | 1.6 | % | |
| p+0.00* | 30.2 | — | — | 0.1 | 1.2 | % | — | <MDL | U | 0.2 | 1.6 | % | |
| p+1.00* | 47.2 | — | — | 0.1 | 1.2 | % | 0.4 | <RDL | J | 0.2 | 1.6 | % | |
| p+10.0(equal/more than)* | 2.4 | — | — | 0.6 | 1.2 | % | 4 | — | — | 0.8 | 1.6 | % | |
| p+2.00* | 10.8 | — | — | 0.1 | 1.2 | % | 23.7 | — | — | 0.2 | 1.6 | % | |
| p+3.00* | 1.6 | — | — | 0.1 | 1.2 | % | 49.6 | — | — | 0.2 | 1.6 | % | |
| p+4.00* | 0.4 | <RDL | J | 0.1 | 1.2 | % | 13.4 | — | — | 0.2 | 1.6 | % | |
| p+5.00* | — | <MDL | U | 0.6 | 1.2 | % | 3.2 | — | — | 0.8 | 1.6 | % | |
| p+6.00* | — | <MDL | U | 0.6 | 1.2 | % | — | <MDL | U | 0.8 | 1.6 | % | |
| p+7.00* | — | <MDL | U | 0.6 | 1.2 | % | 1.6 | RDL | — | 0.8 | 1.6 | % | |
| p+8.00* | — | <MDL | U | 0.6 | 1.2 | % | — | <MDL | U | 0.8 | 1.6 | % | |
| p+9.00* | — | <MDL | U | 0.6 | 1.2 | % | — | <MDL | U | 0.8 | 1.6 | % | |
| p-1.00* | 8.3 | — | — | 0.1 | 1.2 | % | — | <MDL | U | 0.2 | 1.6 | % | |
| p-2.00(less than)* | 0.9 | <RDL | J | 0.1 | 1.2 | % | — | <MDL | U | 0.2 | 1.6 | % | |
| p-2.00* | 0.2 | <RDL | J | 0.1 | 1.2 | % | — | <MDL | U | 0.2 | 1.6 | % | |
| CV EPA DEC 1991 | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | | <MDL,JG | U | 0.34 | 1.35 | mg/Kg | 0.68 | <RDL,JG | J | 0.37 | 1.51 | mg/Kg | |
| CV SM2540-G | | | | | | | | | | | | | |
| Total Solids* | 74 | — | — | 0.005 | 0.01 | % | 61.4 | — | — | 0.005 | 0.01 | % | |
| CV SW846 9045D | | | | | | | | | | | | | |
| pH* | 7.11 | — | — | — | — | pH | 6.42 | — | — | — | — | pH | |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | |
| Total Organic Carbon | 7620 | — | — | 620 | 1260 | mg/Kg | 5130 | — | — | 720 | 1450 | mg/Kg | |
| MT EPA 1991/200.7 | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 1.5 | <RDL | J | 0.68 | 3.36 | mg/Kg | 1.6 | <RDL | J | 0.75 | 3.78 | mg/Kg | |
| Cadmium, Extractable, SEM | — | <MDL | U | 0.054 | 0.27 | mg/Kg | — | <MDL | U | 0.06 | 0.303 | mg/Kg | |
| Chromium, Extractable, SEM | 0.612 | — | — | 0.081 | 0.404 | mg/Kg | 1.78 | — | — | 0.091 | 0.454 | mg/Kg | |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: FL319 Descrip: GREEN RIVER, DOWNS Sample: L56024-34 Matrix: SE FRSHWTRSED ColDate: 8/29/12 10:10 TotalSolid: 74 Sample Information: 3 Ponar casts; all sand DRY Weight Basis | | 0318 GREEN RIVER/EAST V L56024-35 SE FRSHWTRSED 8/29/12 12:40 61.4 20 spoons; U. S. of bridge, deep and rocky DRY Weight Basis | | | | | | | | | | |
|--|--------|---|-----------------|--------|---------|-------|--------|----------|-----------------|--------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 2.27 | — | — | 0.11 | 0.539 | mg/Kg | 5.91 | — | — | 0.12 | 0.606 | mg/Kg |
| Lead, Extractable, SEM | 1.5 | <RDL | J | 0.54 | 2.7 | mg/Kg | 2.1 | <RDL | J | 0.6 | 3.03 | mg/Kg |
| Nickel, Extractable, SEM | 0.728 | — | — | 0.14 | 0.674 | mg/Kg | 1.73 | — | — | 0.15 | 0.757 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.11 | 0.539 | mg/Kg | — | <MDL | U | 0.12 | 0.606 | mg/Kg |
| Zinc, Extractable, SEM | 8.09 | — | — | 0.14 | 0.674 | mg/Kg | 10.3 | — | — | 0.15 | 0.757 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | 0.0015 | <RDL | J | 0.0014 | 0.00404 | mg/Kg | — | <MDL | U | 0.0015 | 0.00454 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 3.77 | — | — | 0.023 | 0.113 | mg/Kg | 3.22 | — | — | 0.015 | 0.0744 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.054 | <RDL | J | 0.011 | 0.0565 | mg/Kg | 0.0588 | — | — | 0.0075 | 0.0373 | mg/Kg |
| Chromium, Total, ICP-MS | 9 | — | — | 0.18 | 0.904 | mg/Kg | 13 | — | — | 0.12 | 0.596 | mg/Kg |
| Copper, Total, ICP-MS | 10.6 | — | — | 0.36 | 1.81 | mg/Kg | 12.3 | — | — | 0.24 | 1.19 | mg/Kg |
| Lead, Total, ICP-MS | 2.3 | — | — | 0.023 | 0.113 | mg/Kg | 3.49 | — | — | 0.015 | 0.0744 | mg/Kg |
| Nickel, Total, ICP-MS | 11.8 | — | — | 0.091 | 0.451 | mg/Kg | 13.6 | — | — | 0.06 | 0.298 | mg/Kg |
| Silver, Total, ICP-MS | 0.023 | <RDL | J | 0.0091 | 0.0451 | mg/Kg | 0.036 | — | — | 0.006 | 0.0298 | mg/Kg |
| Zinc, Total, ICP-MS | 33 | — | — | 0.11 | 0.565 | mg/Kg | 41.9 | — | — | 0.075 | 0.373 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.011 | <RDL | J | 0.0065 | 0.0651 | mg/Kg | 0.064 | <RDL | J | 0.0078 | 0.0788 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Aldrin | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Beta-BHC | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Delta-BHC | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Dieldrin | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Endosulfan I | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Endosulfan II | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Endrin | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |

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King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: FL319 Descrip: GREEN RIVER, DOWNS Sample: L56024-34 Matrix: SE FRSHWTRSED ColDate: 8/29/12 10:10 TotalSolid: 74 Sample Information: 3 Ponar casts; all sand DRY Weight Basis | | 0318 GREEN RIVER/EAST V L56024-35 SE FRSHWTRSED 8/29/12 12:40 61.4 20 spoons; U. S. of bridge, deep and rocky DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Heptachlor | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Methoxychlor | — | <MDL | U | 3.6 | 7.2 | ug/Kg | — | <MDL | U | 4.4 | 8.68 | ug/Kg |
| Toxaphene | — | <MDL | U | 15 | 72 | ug/Kg | — | <MDL | U | 18 | 86.8 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 1.8 | 7.2 | ug/Kg | — | <MDL | U | 2.1 | 8.68 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 3.6 | 7.2 | ug/Kg | — | <MDL | U | 4.4 | 8.68 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 3.6 | 7.2 | ug/Kg | — | <MDL | U | 4.4 | 8.68 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 1.8 | 7.2 | ug/Kg | — | <MDL | U | 2.1 | 8.68 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 1.8 | 7.2 | ug/Kg | — | <MDL | U | 2.1 | 8.68 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 1.8 | 7.2 | ug/Kg | — | <MDL | U | 2.1 | 8.68 | ug/Kg |
| Aroclor 1260 | — | <MDL | U | 1.8 | 7.2 | ug/Kg | — | <MDL | — | 2.1 | 8.68 | ug/Kg |
| Total Aroclors | — | <MDL | — | 3.6 | 7.2 | ug/Kg | — | <MDL | — | 4.4 | 8.68 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 3.6 | 7.2 | ug/Kg | — | <MDL | U | 4.4 | 8.68 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 7.2 | 7.2 | ug/Kg | — | <MDL | U | 8.68 | 8.68 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 10.8 | 10.8 | ug/Kg | — | <MDL | U | 13 | 13 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL,JG | UJ | 36 | 72 | ug/Kg | — | <MDL | UJ | 44 | 86.8 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 36 | 72 | ug/Kg | — | <MDL | U | 44 | 86.8 | ug/Kg |
| 2-Methylphenol | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | UJ | 8.6 | 17.4 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 36 | 72 | ug/Kg | — | <MDL | U | 44 | 86.8 | ug/Kg |
| Acenaphthene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Anthracene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Benzo(b,j,k)fluoranthene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | 14 | <RDL | J | 8.6 | 17.4 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 720 | 720 | ug/Kg | — | <MDL | U | 868 | 868 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Locator: FL319 Descrip: GREEN RIVER, DOWNS Sample: L56024-34 Matrix: SE FRSHWTRSED ColDate: 8/29/12 10:10 TotalSolid: 74 Sample Information: 3 Ponar casts; all sand DRY Weight Basis | | 0318 GREEN RIVER/EAST V L56024-35 SE FRSHWTRSED 8/29/12 12:40 61.4 20 spoons; U. S. of bridge, deep and rocky DRY Weight Basis | | | | | | | | | | |
|--|-------|---|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Benzyl Alcohol | — | <MDL | U | 18 | 18 | ug/Kg | — | <MDL | U | 21.7 | 21.7 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 10.8 | 10.8 | ug/Kg | — | <MDL | U | 13 | 13 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 240 | 1150 | ug/Kg | — | <MDL | U | 290 | 1390 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 20 | <RDL | J | 15 | 28.8 | ug/Kg | 44.5 | B | U | 18 | 34.7 | ug/Kg |
| Bisphenol A | — | <MDL | U | 240 | 1150 | ug/Kg | — | <MDL | U | 290 | 1390 | ug/Kg |
| Carbazole | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Chrysene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Coprostanol | — | <MDL | U | 240 | 2310 | ug/Kg | 330 | <RDL,J | J | 290 | 2790 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Diethyl Phthalate | — | <MDL | U | 15 | 28.8 | ug/Kg | — | <MDL | U | 18 | 34.7 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 14.5 | 14.5 | ug/Kg | — | <MDL | U | 17.4 | 17.4 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 15 | 28.8 | ug/Kg | — | <MDL | U | 18 | 34.7 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 14.5 | 14.5 | ug/Kg | — | <MDL | U | 17.4 | 17.4 | ug/Kg |
| Fluoranthene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | 11 | <RDL | J | 8.6 | 17.4 | ug/Kg |
| Fluorene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 0.72 | 1.45 | ug/Kg | — | <MDL | U | 0.86 | 1.74 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 18 | 36.1 | ug/Kg | — | <MDL | U | 21 | 43.5 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Naphthalene | — | <MDL | U | 36 | 72 | ug/Kg | — | <MDL | U | 44 | 86.8 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 18 | 18 | ug/Kg | — | <MDL | U | 21.7 | 21.7 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 108 | 108 | ug/Kg | — | <MDL | U | 130 | 130 | ug/Kg |
| Phenanthrene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | — | <MDL | U | 8.6 | 17.4 | ug/Kg |
| Phenol | — | <MDL | U | 36 | 108 | ug/Kg | — | <MDL | UJ | 44 | 130 | ug/Kg |
| Pyrene | — | <MDL | U | 7.2 | 14.5 | ug/Kg | 10 | <RDL | J | 8.6 | 17.4 | ug/Kg |
| Total 4-Nonylphenol | — | <MDL | U | 110 | 1150 | ug/Kg | — | <MDL,J | U | 130 | 1390 | ug/Kg |
| Total HPAHS | — | <MDL | — | 7.2 | 14.5 | ug/Kg | 34.7 | — | — | 8.6 | 17.4 | ug/Kg |
| Total LPAHS | — | <MDL | — | 36 | 72 | ug/Kg | — | <MDL | — | 44 | 86.8 | ug/Kg |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

Lab Project: 423589-330-4

| Sample Information: | | DRY Weight Basis | | | | | | DRY Weight Basis | | | | | | |
|-----------------------------|-------------------|-------------------------|-----------------|-------|-------|-------|-------------------------|----------------------------|-----------------|-------|-------|-------|--|--|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units | | |
| Locator: | A319 | | | | | | | FG319 | | | | | | |
| Descrip: | GREEN RIVER/ABOVE | | | | | | | GREEN RIVER, FLAMI | | | | | | |
| Sample: | L56024-36 | | | | | | | L56024-37 | | | | | | |
| Matrix: | SE FRSHWTRSED | | | | | | | SE FRSHWTRSED | | | | | | |
| ColDate: | 8/27/12 13:25 | | | | | | | 8/14/12 12:00 | | | | | | |
| TotalSolid: | 48.9 | | | | | | | 63.4 | | | | | | |
| Sample Information: | 25 spoons | | | | | | | 25 spoons; U. S. of bridge | | | | | | |
| DRY Weight Basis | | | | | | | DRY Weight Basis | | | | | | | |
| CV ASTM D422 | | | | | | | | | | | | | | |
| Fines* | 21.6 | — | — | 1.3 | 2.5 | % | 6.7 | — | — | 0.8 | 1.5 | % | | |
| Gravel* | 12.2 | — | — | 0.3 | 2.5 | % | 0.4 | <RDL | J | 0.2 | 1.5 | % | | |
| Sand* | 67.5 | — | — | 0.3 | 2.5 | % | 90.3 | — | — | 0.2 | 1.5 | % | | |
| Silt* | 14 | — | — | 1.3 | 2.5 | % | 3 | — | — | 0.8 | 1.5 | % | | |
| Clay* | 7.6 | — | — | 1.3 | 2.5 | % | 3.7 | — | — | 0.8 | 1.5 | % | | |
| p+0.00* | 5.2 | — | — | 0.3 | 2.5 | % | 0.4 | <RDL | J | 0.2 | 1.5 | % | | |
| p+1.00* | 3.7 | — | — | 0.3 | 2.5 | % | 1.1 | <RDL | J | 0.2 | 1.5 | % | | |
| p+10.0(equal/more than)* | 6.4 | — | — | 1.3 | 2.5 | % | 3 | — | — | 0.8 | 1.5 | % | | |
| p+2.00* | 5.5 | — | — | 0.3 | 2.5 | % | 37 | — | — | 0.2 | 1.5 | % | | |
| p+3.00* | 25.7 | — | — | 0.3 | 2.5 | % | 43.9 | — | — | 0.2 | 1.5 | % | | |
| p+4.00* | 27.5 | — | — | 0.3 | 2.5 | % | 7.9 | — | — | 0.2 | 1.5 | % | | |
| p+5.00* | 11.4 | — | — | 1.3 | 2.5 | % | 2.2 | — | — | 0.8 | 1.5 | % | | |
| p+6.00* | 1.3 | <RDL | J | 1.3 | 2.5 | % | — | <MDL | U | 0.8 | 1.5 | % | | |
| p+7.00* | 1.3 | <RDL | J | 1.3 | 2.5 | % | — | <MDL | U | 0.8 | 1.5 | % | | |
| p+8.00* | — | <MDL | U | 1.3 | 2.5 | % | 0.7 | <RDL | J | 0.8 | 1.5 | % | | |
| p+9.00* | 1.3 | <RDL | J | 1.3 | 2.5 | % | 0.7 | <RDL | J | 0.8 | 1.5 | % | | |
| p-1.00* | 6.2 | — | — | 0.3 | 2.5 | % | 0.4 | <RDL | J | 0.2 | 1.5 | % | | |
| p-2.00(less than)* | 3.4 | — | — | 0.3 | 2.5 | % | — | <MDL | U | 0.2 | 1.5 | % | | |
| p-2.00* | 2.7 | — | — | 0.3 | 2.5 | % | — | <MDL | U | 0.2 | 1.5 | % | | |
| CV EPA DEC 1991 | | | | | | | | | | | | | | |
| Sulfide, Acid Volatile | 1.3 | <RDL,JG | J | 0.51 | 2.01 | mg/Kg | — | <MDL,JG | U | 0.38 | 1.51 | mg/Kg | | |
| CV SM2540-G | | | | | | | | | | | | | | |
| Total Solids* | 48.9 | — | — | 0.005 | 0.01 | % | 63.4 | — | — | 0.005 | 0.01 | % | | |
| CV SW846 9045D | | | | | | | | | | | | | | |
| pH* | 6.62 | — | — | — | — | pH | 6.72 | — | — | — | — | pH | | |
| CV SW846 9060-PSEP96 | | | | | | | | | | | | | | |
| Total Organic Carbon | 10400 | — | — | 960 | 1910 | mg/Kg | 7350 | — | — | 650 | 1300 | mg/Kg | | |
| MT EPA 1991/200.7 | | | | | | | | | | | | | | |
| Arsenic, Extractable, SEM | 2.2 | <RDL | J | 1 | 5.03 | mg/Kg | 1.5 | <RDL | J | 0.76 | 3.79 | mg/Kg | | |
| Cadmium, Extractable, SEM | — | <MDL | U | 0.08 | 0.403 | mg/Kg | — | <MDL | U | 0.06 | 0.303 | mg/Kg | | |
| Chromium, Extractable, SEM | 1.53 | — | — | 0.12 | 0.605 | mg/Kg | 1.19 | — | — | 0.091 | 0.454 | mg/Kg | | |

Table C-4: KCEL Stream Sediment Analytical Data 2012
King County Environmental Lab Analytical Report

| Locator: A319 Descrip: GREEN RIVER/ABOVE Sample: L56024-36 Matrix: SE FRSHWTRSED ColDate: 8/27/12 13:25 TotalSolid: 48.9 Sample Information: 25 spoons DRY Weight Basis | | FG319 GREEN RIVER, FLAMI L56024-37 SE FRSHWTRSED 8/14/12 12:00 63.4 25 spoons; U. S. of bridge DRY Weight Basis | | | | | | | | | | |
|--|--------|--|-----------------|--------|---------|-------|--------|----------|-----------------|--------|---------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Copper, Extractable, SEM | 7.24 | — | — | 0.16 | 0.806 | mg/Kg | 5.17 | — | — | 0.12 | 0.606 | mg/Kg |
| Lead, Extractable, SEM | 4.09 | <RDL | J | 0.8 | 4.03 | mg/Kg | 2.4 | <RDL | J | 0.6 | 3.03 | mg/Kg |
| Nickel, Extractable, SEM | 2.21 | — | — | 0.2 | 1.01 | mg/Kg | 1.28 | — | — | 0.15 | 0.757 | mg/Kg |
| Silver, Extractable, SEM | — | <MDL | U | 0.16 | 0.806 | mg/Kg | — | <MDL | U | 0.12 | 0.606 | mg/Kg |
| Zinc, Extractable, SEM | 13.3 | — | — | 0.2 | 1.01 | mg/Kg | 9.37 | — | — | 0.15 | 0.757 | mg/Kg |
| MT EPA 821 1991/245.1*SW846 7470A | | | | | | | | | | | | |
| Mercury, Extractable, SEM | — | <MDL | U | 0.002 | 0.00605 | mg/Kg | — | <MDL | U | 0.0015 | 0.00454 | mg/Kg |
| MT SW846 3050B*SW846 6020A | | | | | | | | | | | | |
| Arsenic, Total, ICP-MS | 4.5 | — | — | 0.019 | 0.0941 | mg/Kg | 4.84 | — | — | 0.022 | 0.113 | mg/Kg |
| Cadmium, Total, ICP-MS | 0.0777 | — | — | 0.0094 | 0.047 | mg/Kg | 0.0757 | — | — | 0.011 | 0.0565 | mg/Kg |
| Chromium, Total, ICP-MS | 14.9 | — | — | 0.15 | 0.753 | mg/Kg | 9.45 | — | — | 0.17 | 0.904 | mg/Kg |
| Copper, Total, ICP-MS | 17.2 | — | — | 0.31 | 1.5 | mg/Kg | 15.4 | — | — | 0.36 | 1.81 | mg/Kg |
| Lead, Total, ICP-MS | 5.28 | — | — | 0.019 | 0.0941 | mg/Kg | 3.66 | — | — | 0.022 | 0.113 | mg/Kg |
| Nickel, Total, ICP-MS | 20 | — | — | 0.076 | 0.376 | mg/Kg | 10.5 | — | — | 0.09 | 0.451 | mg/Kg |
| Silver, Total, ICP-MS | 0.045 | — | — | 0.0076 | 0.0376 | mg/Kg | 0.041 | <RDL | J | 0.009 | 0.0451 | mg/Kg |
| Zinc, Total, ICP-MS | 66.5 | — | — | 0.094 | 0.47 | mg/Kg | 47.5 | — | — | 0.11 | 0.565 | mg/Kg |
| MT SW846 7471B | | | | | | | | | | | | |
| Mercury, Total, CVAA | 0.54 | — | — | 0.01 | 0.102 | mg/Kg | 0.06 | <RDL | J | 0.0076 | 0.0759 | mg/Kg |
| OR SW846 3550B*SW846 8081B | | | | | | | | | | | | |
| 4,4'-DDD | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| 4,4'-DDE | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| 4,4'-DDT | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Aldrin | — | <MDL | UJ | 1.1 | 2.19 | ug/Kg | — | <MDL | UJ | 0.84 | 1.69 | ug/Kg |
| Alpha-BHC | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Alpha-Chlordane | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Beta-BHC | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Delta-BHC | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Dieldrin | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Endosulfan I | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Endosulfan II | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Endosulfan Sulfate | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Endrin | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |

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King County Environmental Lab Analytical Report

| Locator: A319 Descrip: GREEN RIVER/ABOVE Sample: L56024-36 Matrix: SE FRSHWTRSED ColDate: 8/27/12 13:25 TotalSolid: 48.9 Sample Information: 25 spoons DRY Weight Basis | | FG319 GREEN RIVER, FLAMI L56024-37 SE FRSHWTRSED 8/14/12 12:00 63.4 25 spoons; U. S. of bridge DRY Weight Basis | | | | | | | | | | |
|--|-------|--|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Endrin Aldehyde | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Gamma-BHC (Lindane) | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Heptachlor | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Heptachlor Epoxide | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Methoxychlor | — | <MDL | U | 5.5 | 10.9 | ug/Kg | — | <MDL | U | 4.3 | 8.41 | ug/Kg |
| Toxaphene | — | <MDL | U | 22 | 109 | ug/Kg | — | <MDL | U | 17 | 84.1 | ug/Kg |
| trans-Chlordane | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| OR SW846 3550B*SW846 8082A | | | | | | | | | | | | |
| Aroclor 1016 | — | <MDL | U | 2.7 | 10.9 | ug/Kg | — | <MDL | U | 2.1 | 8.41 | ug/Kg |
| Aroclor 1221 | — | <MDL | U | 5.5 | 10.9 | ug/Kg | — | <MDL | U | 4.3 | 8.41 | ug/Kg |
| Aroclor 1232 | — | <MDL | U | 5.5 | 10.9 | ug/Kg | — | <MDL | U | 4.3 | 8.41 | ug/Kg |
| Aroclor 1242 | — | <MDL | U | 2.7 | 10.9 | ug/Kg | — | <MDL | U | 2.1 | 8.41 | ug/Kg |
| Aroclor 1248 | — | <MDL | U | 2.7 | 10.9 | ug/Kg | — | <MDL | U | 2.1 | 8.41 | ug/Kg |
| Aroclor 1254 | — | <MDL | U | 2.7 | 10.9 | ug/Kg | — | <MDL | U | 2.1 | 8.41 | ug/Kg |
| Aroclor 1260 | — | <MDL | — | 2.7 | 10.9 | ug/Kg | — | <MDL | — | 2.1 | 8.41 | ug/Kg |
| Total Aroclors | — | <MDL | — | 5.5 | 10.9 | ug/Kg | — | <MDL | — | 4.3 | 8.41 | ug/Kg |
| OR SW846 3550B*SW846 8270D | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | — | <MDL | U | 5.5 | 10.9 | ug/Kg | — | <MDL | U | 4.3 | 8.41 | ug/Kg |
| 1,2-Dichlorobenzene | — | <MDL | U | 10.9 | 10.9 | ug/Kg | — | <MDL | U | 8.41 | 8.41 | ug/Kg |
| 1,4-Dichlorobenzene | — | <MDL | U | 16.4 | 16.4 | ug/Kg | — | <MDL | U | 12.6 | 12.6 | ug/Kg |
| 2,4-Dimethylphenol | — | <MDL | UJ | 55 | 109 | ug/Kg | — | <MDL | UJ | 43 | 84.1 | ug/Kg |
| 2-Methylnaphthalene | — | <MDL | U | 55 | 109 | ug/Kg | — | <MDL | U | 43 | 84.1 | ug/Kg |
| 2-Methylphenol | — | <MDL | UJ | 11 | 21.9 | ug/Kg | — | <MDL | UJ | 8.4 | 16.9 | ug/Kg |
| 3-,4-Methylphenol | — | <MDL | U | 55 | 109 | ug/Kg | — | <MDL | U | 43 | 84.1 | ug/Kg |
| Acenaphthene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Acenaphthylene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Anthracene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Benzo(a)anthracene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Benzo(a)pyrene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Benzo(b,j,k)fluoranthene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Benzo(g,h,i)perylene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Benzoic Acid | — | <MDL | U | 1090 | 1090 | ug/Kg | — | <MDL | U | 841 | 841 | ug/Kg |

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King County Environmental Lab Analytical Report

| Locator: A319 Descrip: GREEN RIVER/ABOVE Sample: L56024-36 Matrix: SE FRSHWTRSED ColDate: 8/27/12 13:25 TotalSolid: 48.9 Sample Information: 25 spoons DRY Weight Basis | | FG319 GREEN RIVER, FLAMI L56024-37 SE FRSHWTRSED 8/14/12 12:00 63.4 25 spoons; U. S. of bridge DRY Weight Basis | | | | | | | | | | |
|--|-------|--|-----------------|------|------|-------|-------|----------|-----------------|------|------|-------|
| Parameters | Value | Lab Qual | Validation Qual | MDL | RDL | Units | Value | Lab Qual | Validation Qual | MDL | RDL | Units |
| Benzyl Alcohol | — | <MDL | U | 27.2 | 27.2 | ug/Kg | — | <MDL | U | 21 | 21 | ug/Kg |
| Benzyl Butyl Phthalate | — | <MDL | U | 16.4 | 16.4 | ug/Kg | — | <MDL | U | 12.6 | 12.6 | ug/Kg |
| Bis(2-ethylhexyl)adipate | — | <MDL | U | 370 | 1740 | ug/Kg | — | <MDL | U | 280 | 1350 | ug/Kg |
| Bis(2-Ethylhexyl)Phthalate | 53.8 | B | U | 22 | 43.6 | ug/Kg | 24 | <RDL,B | U | 17 | 33.6 | ug/Kg |
| Bisphenol A | — | <MDL | U | 370 | 1740 | ug/Kg | — | <MDL | U | 280 | 1350 | ug/Kg |
| Carbazole | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Chrysene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Coprostanol | — | <MDL | U | 370 | 3500 | ug/Kg | — | <MDL | U | 280 | 2700 | ug/Kg |
| Dibenzo(a,h)anthracene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Dibenzofuran | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Diethyl Phthalate | — | <MDL | UJ | 22 | 43.6 | ug/Kg | — | <MDL | U | 17 | 33.6 | ug/Kg |
| Dimethyl Phthalate | — | <MDL | U | 21.9 | 21.9 | ug/Kg | — | <MDL | U | 16.9 | 16.9 | ug/Kg |
| Di-N-Butyl Phthalate | — | <MDL | U | 22 | 43.6 | ug/Kg | — | <MDL | U | 17 | 33.6 | ug/Kg |
| Di-N-Octyl Phthalate | — | <MDL | U | 21.9 | 21.9 | ug/Kg | — | <MDL | U | 16.9 | 16.9 | ug/Kg |
| Fluoranthene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Fluorene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Hexachlorobenzene | — | <MDL | U | 1.1 | 2.19 | ug/Kg | — | <MDL | U | 0.84 | 1.69 | ug/Kg |
| Hexachlorobutadiene | — | <MDL | U | 27 | 54.6 | ug/Kg | — | <MDL | U | 21 | 42.1 | ug/Kg |
| Indeno(1,2,3-Cd)Pyrene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Naphthalene | — | <MDL | U | 55 | 109 | ug/Kg | — | <MDL | U | 43 | 84.1 | ug/Kg |
| N-Nitrosodiphenylamine | — | <MDL | U | 27.2 | 27.2 | ug/Kg | — | <MDL | U | 21 | 21 | ug/Kg |
| Pentachlorophenol | — | <MDL | U | 164 | 164 | ug/Kg | — | <MDL | U | 126 | 126 | ug/Kg |
| Phenanthrene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Phenol | — | <MDL | UJ | 55 | 164 | ug/Kg | — | <MDL | UJ | 43 | 126 | ug/Kg |
| Pyrene | — | <MDL | U | 11 | 21.9 | ug/Kg | — | <MDL | U | 8.4 | 16.9 | ug/Kg |
| Total 4-Nonylphenol | | <MDL,J | U | 160 | 1740 | ug/Kg | | <MDL,J | U | 130 | 1350 | ug/Kg |
| Total HPAHS | — | <MDL | — | 11 | 21.9 | ug/Kg | — | <MDL | — | 8.4 | 16.9 | ug/Kg |
| Total LPAHS | — | <MDL | — | 55 | 109 | ug/Kg | — | <MDL | — | 43 | 84.1 | ug/Kg |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Axy's Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axys LAB FLAG | Validation Qualifier |
|---------|-----------------------------|-----------|--------------|---------------------|---------------|---|----------|---------------|----------------------|
| A315 | Mill (Hill) Creek in Auburn | L56024-1 | 8/13/2012 | 1,2,3,4,6,7,8-HPCDD | 51.1 | 0.192 | ng/Kg dw | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 7.25 | 0.0882 | | | |
| | | | | 1,2,3,4,7,8,9-HPCDF | 0.594 | 0.0882 | | J | |
| | | | | 1,2,3,4,7,8-HXCDD | 0.678 | 0.0695 | | K J | U |
| | | | | 1,2,3,4,7,8-HXCDF | 0.388 | 0.0511 | | J | |
| | | | | 1,2,3,6,7,8-HXCDD | 2.17 | 0.0695 | | | |
| | | | | 1,2,3,6,7,8-HXCDF | 0.388 | 0.0511 | | J | |
| | | | | 1,2,3,7,8,9-HXCDD | 2.13 | 0.0695 | | | |
| | | | | 1,2,3,7,8,9-HXCDF | | 0.0511 | | U | |
| | | | | 1,2,3,7,8-PECDD | 0.527 | 0.0839 | | J | |
| | | | | 1,2,3,7,8-PECDF | 0.214 | 0.0987 | | K J | U |
| | | | | 2,3,4,6,7,8-HXCDF | 0.291 | 0.0511 | | J | |
| | | | | 2,3,4,7,8-PECDF | 0.236 | 0.0987 | | J | |
| | | | | 2,3,7,8-TCDD | 0.242 | 0.0579 | | | |
| | | | | 2,3,7,8-TCDF | 0.199 | 0.082 | | | |
| | | | | OCDD | 472 | 0.0455 | | B | |
| | | | | OCDF | 18.7 | 0.0455 | | | |
| | | | | Total D/F | 556.69 | Sum of congeners ng/Kg dry | | | |
| | | | | Dioxin TEQ Total | 2.21 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Axy's Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axys LAB FLAG | Validation Qualifier | | | | | |
|---------|--------------------|-----------|--------------|---------------------|---------------|-----------------|----------|---------------|----------------------|---|--|--|--|--|
| IT318 | Mill Creek in Kent | L56024-11 | 8/30/2012 | 1,2,3,4,6,7,8-HPCDD | 401 | 0.422 | ng/Kg dw | | | | | | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 78.4 | 0.21 | | | | | | | | |
| | | | | 1,2,3,4,7,8,9-HPCDF | 5.96 | 0.21 | | | | | | | | |
| | | | | 1,2,3,4,7,8-HXCDD | 6.02 | 0.123 | | | | | | | | |
| | | | | 1,2,3,4,7,8-HXCDF | 5.58 | 0.123 | | | | | | | | |
| | | | | 1,2,3,6,7,8-HXCDD | 18.6 | 0.123 | | | | | | | | |
| | | | | 1,2,3,6,7,8-HXCDF | 4.24 | 0.123 | | | | | | | | |
| | | | | 1,2,3,7,8,9-HXCDD | 16.7 | 0.123 | | | | | | | | |
| | | | | 1,2,3,7,8,9-HXCDF | 0.302 | 0.123 | | | | | | | | |
| | | | | 1,2,3,7,8-PECDD | 3.4 | 0.0943 | | | | | | | | |
| | | | | 1,2,3,7,8-PECDF | 1.32 | 0.258 | | | | | | | | |
| | | | | 2,3,4,6,7,8-HXCDF | 3.16 | 0.123 | | | | | | | | |
| | | | | 2,3,4,7,8-PECDF | 2.12 | 0.258 | | | | | | | | |
| | | | | 2,3,7,8-TCDD | 0.627 | 0.149 | | | | | | | | |
| | | | | 2,3,7,8-TCDF | 1.6 | 0.0886 | | | | | | | | |
| | | | | OCDD | 3080 | 0.123 | | | B | | | | | |
| | | | | OCDF | 197 | 0.0556 | | | | | | | | |
| | | | | Total D/F | | | | | 3826.03 | Sum of congeners ng/Kg dry | | | | |
| | | | | Dioxin TEQ Total | | | | | 16.16 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | | |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Alys Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axys LAB FLAG | Validation Qualifier | |
|---------|-----------------------------|-----------|--------------|---------------------|---------------|---|----------|---------------|----------------------|--|
| FL319 | Green River at Foster Links | L56024-34 | 8/29/2012 | 1,2,3,4,6,7,8-HPCDD | 1.07 | 0.0479 | ng/Kg dw | | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 0.164 | 0.0479 | | K J | U | |
| | | | | 1,2,3,4,7,8,9-HPCDF | | 0.0479 | | U | | |
| | | | | 1,2,3,4,7,8-HXCDD | | 0.0557 | | U | | |
| | | | | 1,2,3,4,7,8-HXCDF | | 0.0527 | | U | | |
| | | | | 1,2,3,6,7,8-HXCDD | 0.126 | 0.0557 | | J | | |
| | | | | 1,2,3,6,7,8-HXCDF | | 0.0527 | | U | | |
| | | | | 1,2,3,7,8,9-HXCDD | 0.166 | 0.0557 | | K J | U | |
| | | | | 1,2,3,7,8,9-HXCDF | | 0.0527 | | U | | |
| | | | | 1,2,3,7,8-PECDD | | 0.0541 | | U | | |
| | | | | 1,2,3,7,8-PECDF | | 0.0479 | | U | | |
| | | | | 2,3,4,6,7,8-HXCDF | | 0.0527 | | U | | |
| | | | | 2,3,4,7,8-PECDF | | 0.0479 | | U | | |
| | | | | 2,3,7,8-TCDD | | 0.0479 | | U | | |
| | | | | 2,3,7,8-TCDF | | 0.0479 | | U | | |
| | | | | OCDD | 6.17 | 0.0479 | | B | | |
| | | | | OCDF | 0.4 | 0.0646 | | J | | |
| | | | | Total D/F | 8.21 | Sum of congeners ng/Kg dry | | | | |
| | | | | Dioxin TEQ Total | 0.12 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | | |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Alys Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axys LAB FLAG | Validation Qualifier |
|------------------|-------------------------------|---|--------------|---------------------|---------------|----------------------------|----------|---------------|----------------------|
| FG319 | Green River at Flaming Gesyer | L56024-37 | 8/14/2012 | 1,2,3,4,6,7,8-HPCDD | 1.13 | 0.0458 | ng/Kg dw | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 0.216 | 0.0458 | | J | |
| | | | | 1,2,3,4,7,8,9-HPCDF | | 0.0458 | | U | |
| | | | | 1,2,3,4,7,8-HXCDD | | 0.121 | | U | |
| | | | | 1,2,3,4,7,8-HXCDF | | 0.0458 | | U | |
| | | | | 1,2,3,6,7,8-HXCDD | | 0.121 | | U | |
| | | | | 1,2,3,6,7,8-HXCDF | | 0.0458 | | U | |
| | | | | 1,2,3,7,8,9-HXCDD | 0.148 | 0.121 | | J | |
| | | | | 1,2,3,7,8,9-HXCDF | | 0.0458 | | U | |
| | | | | 1,2,3,7,8-PECDD | 0.092 | 0.0491 | | J | |
| | | | | 1,2,3,7,8-PECDF | | 0.0537 | | U | |
| | | | | 2,3,4,6,7,8-HXCDF | | 0.0458 | | U | |
| | | | | 2,3,4,7,8-PECDF | | 0.0537 | | U | |
| | | | | 2,3,7,8-TCDD | | 0.0507 | | U | |
| | | | | 2,3,7,8-TCDF | | 0.0458 | | U | |
| | | | | OCDD | 5.46 | 0.0458 | | B | |
| | | | | OCDF | 0.262 | 0.119 | | K J | U |
| | | | | Total D/F | 7.51 | Sum of congeners ng/Kg dry | | | |
| Dioxin TEQ Total | 0.18 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | | | | | |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Alys Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axys LAB FLAG | Validation Qualifier |
|------------------|-------------|---|--------------|---------------------|---------------|----------------------------|----------|---------------|----------------------|
| 0320 | Soos Creek | L56024-38 | 8/14/2012 | 1,2,3,4,6,7,8-HPCDD | 10.8 | 0.0422 | ng/Kg dw | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 1.67 | 0.0415 | | | |
| | | | | 1,2,3,4,7,8,9-HPCDF | 0.106 | 0.0415 | | J | |
| | | | | 1,2,3,4,7,8-HXCDD | 0.256 | 0.0415 | | K J | U |
| | | | | 1,2,3,4,7,8-HXCDF | 0.154 | 0.0415 | | J | |
| | | | | 1,2,3,6,7,8-HXCDD | 0.572 | 0.0415 | | J | |
| | | | | 1,2,3,6,7,8-HXCDF | 0.117 | 0.0415 | | J | |
| | | | | 1,2,3,7,8,9-HXCDD | 0.664 | 0.0415 | | J | |
| | | | | 1,2,3,7,8,9-HXCDF | | 0.0415 | | U | |
| | | | | 1,2,3,7,8-PECDD | 0.149 | 0.0494 | | J | |
| | | | | 1,2,3,7,8-PECDF | 0.056 | 0.0415 | | K J | U |
| | | | | 2,3,4,6,7,8-HXCDF | 0.096 | 0.0415 | | K J | U |
| | | | | 2,3,4,7,8-PECDF | 0.115 | 0.0415 | | J | |
| | | | | 2,3,7,8-TCDD | 0.111 | 0.0415 | | K J | U |
| | | | | 2,3,7,8-TCDF | 0.094 | 0.0415 | | J | |
| | | | | OCDD | 71.9 | 0.0477 | | B | |
| | | | | OCDF | 3.64 | 0.0415 | | | |
| | | | | Total D/F | 90.26 | Sum of congeners ng/Kg dry | | | |
| Dioxin TEQ Total | 0.64 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | | | | | |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Alys Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axys LAB FLAG | Validation Qualifier |
|------------------|----------------|---|--------------|---------------------|---------------|----------------------------|----------|---------------|----------------------|
| X322 | Newaukum Creek | L56024-39 | 8/14/2012 | 1,2,3,4,6,7,8-HPCDD | 183 | 0.238 | ng/Kg dw | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 28.4 | 0.131 | | | |
| | | | | 1,2,3,4,7,8,9-HPCDF | 1.98 | 0.131 | | J | |
| | | | | 1,2,3,4,7,8-HXCDD | 2.47 | 0.131 | | J | |
| | | | | 1,2,3,4,7,8-HXCDF | 1.85 | 0.131 | | J | |
| | | | | 1,2,3,6,7,8-HXCDD | 7.82 | 0.131 | | | |
| | | | | 1,2,3,6,7,8-HXCDF | 1.21 | 0.131 | | J | |
| | | | | 1,2,3,7,8,9-HXCDD | 7.95 | 0.131 | | | |
| | | | | 1,2,3,7,8,9-HXCDF | 0.231 | 0.131 | | J | |
| | | | | 1,2,3,7,8-PECDD | 1.09 | 0.131 | | J | |
| | | | | 1,2,3,7,8-PECDF | 0.462 | 0.159 | | J | |
| | | | | 2,3,4,6,7,8-HXCDF | 1.03 | 0.131 | | J | |
| | | | | 2,3,4,7,8-PECDF | 0.66 | 0.159 | | K J | U |
| | | | | 2,3,7,8-TCDD | 0.345 | 0.131 | | K J | U |
| | | | | 2,3,7,8-TCDF | 0.488 | 0.131 | | J | |
| | | | | OCDD | 1310 | 0.131 | | B | |
| | | | | OCDF | 73.7 | 0.131 | | | |
| | | | | Total D/F | 1622.18 | Sum of congeners ng/Kg dry | | | |
| Dioxin TEQ Total | 6.50 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | | | | | |

Table C-5: Dioxin/Furan Congener Results for Stream Sediment 2012

Analyzed by EPA Method 1613 B by Axy's Analytical

| LOCATOR | Description | SAMPLE ID | COLLECT DATE | COMPOUND | Reported Conc | DETECTION LIMIT | UNIT | Axy's LAB FLAG | Validation Qualifier |
|------------------|-------------------|-----------|--------------|---------------------|---------------|---|----------|----------------|----------------------|
| 0317 | Springbrook Creek | L56024-40 | 8/13/2012 | 1,2,3,4,6,7,8-HPCDD | 492 | 0.498 | ng/Kg dw | | |
| | | | | 1,2,3,4,6,7,8-HPCDF | 105 | 0.276 | | | |
| | | | | 1,2,3,4,7,8,9-HPCDF | 8.13 | 0.276 | | | |
| | | | | 1,2,3,4,7,8-HXCDD | 8.27 | 0.202 | | | |
| | | | | 1,2,3,4,7,8-HXCDF | 6.77 | 0.265 | | | |
| | | | | 1,2,3,6,7,8-HXCDD | 22.6 | 0.202 | | | |
| | | | | 1,2,3,6,7,8-HXCDF | 5.63 | 0.265 | | | |
| | | | | 1,2,3,7,8,9-HXCDD | 22.8 | 0.202 | | | |
| | | | | 1,2,3,7,8,9-HXCDF | 0.49 | 0.265 | | | |
| | | | | 1,2,3,7,8-PECDD | 4.59 | 0.358 | | | |
| | | | | 1,2,3,7,8-PECDF | 2.12 | 0.243 | | | |
| | | | | 2,3,4,6,7,8-HXCDF | 4 | 0.265 | | | |
| | | | | 2,3,4,7,8-PECDF | 2.24 | 0.243 | | | |
| | | | | 2,3,7,8-TCDD | 0.718 | 0.258 | | | |
| | | | | 2,3,7,8-TCDF | 1.5 | 0.074 | | | |
| | | | | OCDD | 3610 | 0.077 | | | B |
| | | | | OCDF | 321 | 0.0691 | | | |
| | | | | Total D/F | | | | | 4617.86 |
| Dioxin TEQ Total | | | | | 20.48 | Sum of congeners ng/Kg 2,3,7,8 TCDD equivalents | | | |

Table notes:

Total D/F = sum of detected dioxin and furan congeners

Dioxin TEQ Total = Dioxin and furan toxic equivalents (TEQs) were calculated using toxic equivalency factor (TEFs) for mammals presented in Van den Berg et al. (2006). Dioxin TEQ totals were calculated for each sample by summing the TEQs for each dioxin and furan congener. Dioxin and furan individual congener TEQs for were calculated as the product of individual congener concentrations and congener-specific TEFs. If an individual congener was not detected, the TEF for that congener was multiplied by one-half the U flagged value (either detection limit or K flagged value) for that congener.