

| Sample ID        | Result       | Std. Dev. | RSD   | Mode  | ALT   |
|------------------|--------------|-----------|-------|-------|-------|
| =====            | =====        | =====     | ===== | ===== | ===== |
| CCV              | 1094.3022    |           |       | TOC   |       |
| CCB              | 43.7643      |           |       | TOC   |       |
| LB97810BLS       | 9.3584       |           |       | TOC   |       |
| LB97810BLS.....  | 8.4196...    | ..        | ...   | TOC   | ..    |
| LB97810BSS       | 1094.1060    |           |       | TOC   |       |
| LB97810BSS       | 1047.7542    |           |       | TOC   |       |
| J4693-01.....    | 870.2658...  | ..        | ...   | TOC   | ..    |
| J4693-01         | 772.6414     |           |       | TOC   |       |
| J4693-01         | 904.4830     |           |       | TOC   |       |
| J4693-01.....    | 664.5988...  | ..        | ...   | TOC   | ..    |
| J4693-02         | 427.4748     |           |       | TOC   |       |
| J4693-02         | 332.6925     |           |       | TOC   |       |
| J4693-03.....    | 876.6715...  | ..        | ...   | TOC   | ..    |
| J4693-03         | 672.3448     |           |       | TOC   |       |
| J4693-04         | 1241.7430    |           |       | TOC   |       |
| J4693-04.....    | 1450.1455... | ..        | ...   | TOC   | ..    |
| J4693-05         | 169.7105     |           |       | TOC   |       |
| J4693-05         | 171.7948     |           |       | TOC   |       |
| J4693-06.....    | 412.4190...  | ..        | ...   | TOC   | ..    |
| J4693-06         | 414.9181     |           |       | TOC   |       |
| J4693-07         | 145.3398     |           |       | TOC   |       |
| J4693-07.....    | 178.1536...  | ..        | ...   | TOC   | ..    |
| J4693-08         | 970.6207     |           |       | TOC   |       |
| J4693-08         | 847.9578     |           |       | TOC   |       |
| CCV.....         | 1021.2875... | ..        | ...   | TOC   | ..    |
| CCB              | 35.2264      |           |       | TOC   |       |
| J4693-09         | 2498.5803    |           |       | TOC   |       |
| J4693-09.....    | 2109.0413... | ..        | ...   | TOC   | ..    |
| J4693-10         | 567.5161     |           |       | TOC   |       |
| J4693-10         | 737.2759     |           |       | TOC   |       |
| CCV.....         | 1035.4198... | ..        | ...   | TOC   | ..    |
| CCB              | 16.1769      |           |       | TOC   |       |
| CCV              | 1024.5630    |           |       | TOC   |       |
| CCB.....         | 8.3987...    | ..        | ...   | TOC   | ..    |
| LB97810BLS2      | 13.1034      |           |       | TOC   |       |
| LB97810BLS2      | 8.5638       |           |       | TOC   |       |
| LB97810BSS2..... | 1005.5715... | ..        | ...   | TOC   | ..    |
| LB97810BSS2      | 987.0534     |           |       | TOC   |       |
| J4693-10DUP      | 583.6124     |           |       | TOC   |       |
| J4693-10DUP..... | 673.1538...  | ..        | ...   | TOC   | ..    |
| J4693-11MS       | 1260.5243    |           |       | TOC   |       |
| J4693-11MS       | 1332.3051    |           |       | TOC   |       |
| J4693-12MSD..... | 1339.5211... | ..        | ...   | TOC   | ..    |
| J4693-12MSD      | 1322.8647    |           |       | TOC   |       |
| J4693-13         | 609.7795     |           |       | TOC   |       |
| J4693-13.....    | 510.7406...  | ..        | ...   | TOC   | ..    |
| J4693-14         | 2122.9539    |           |       | TOC   |       |
| J4693-14         | 2058.8379    |           |       | TOC   |       |
| J4693-15.....    | 451.0902...  | ..        | ...   | TOC   | ..    |
| J4693-15         | 543.7332     |           |       | TOC   |       |
| J4693-16         | 1422.5673    |           |       | TOC   |       |
| J4693-16.....    | 1113.4962... | ..        | ...   | TOC   | ..    |
| J4693-17         | 1727.5103    |           |       | TOC   |       |
| J4693-17         | 1568.0258    |           |       | TOC   |       |
| CCV.....         | 1038.5793... | ..        | ...   | TOC   | ..    |
| CCB              | 11.8454      |           |       | TOC   |       |
| J4693-18         | 433.4796     |           |       | TOC   |       |
| J4693-18.....    | 525.3235...  | ..        | ...   | TOC   | ..    |
| J4693-19         | 615.4494     |           |       | TOC   |       |
| J4693-19         | 636.0050     |           |       | TOC   |       |
| J4693-20.....    | 832.6261...  | ..        | ...   | TOC   | ..    |
| J4693-20         | 833.7772     |           |       | TOC   |       |
| J4693-21         | 552.8526     |           |       | TOC   |       |
| J4693-21.....    | 543.1323...  | ..        | ...   | TOC   | ..    |
| J4693-22         | 120.6922     |           |       | TOC   |       |
| J4693-22         | 110.6747     |           |       | TOC   |       |
| J4693-22DUP..... | 135.4104...  | ..        | ...   | TOC   | ..    |
| J4693-22DUP      | 122.0846     |           |       | TOC   |       |
| J4693-22MS       | 1138.2188    |           |       | TOC   |       |
| J4693-22MS.....  | 1102.5780... | ..        | ...   | TOC   | ..    |

|             |              |    |        |    |
|-------------|--------------|----|--------|----|
| J4693-22MSD | 1106.2987    |    | TOC    |    |
| J4693-22MSD | 1423.5703    |    | TOC    |    |
| CCV.....    | 1018.9628... | .. | ...TOC | .. |
| CCB         | 8.9109       |    | TOC    |    |

| Method ID |         | Sample Type |    | Vial Timestamp |       | Message             |
|-----------|---------|-------------|----|----------------|-------|---------------------|
| =====     |         |             |    |                |       |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 10:04 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 10:08 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 10:11 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 10:14 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 10:18 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 10:27 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 10:59 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 11:03 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 11:08 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 11:22 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 11:31 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 11:35 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 11:38 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 11:46 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 12:10 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 12:20 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 12:25 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 12:28 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 12:44 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 12:53 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 13:01 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 13:06 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 13:14 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 13:22 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 13:33 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 13:36 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 13:43 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 13:47 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 13:51 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 14:00 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/10   | 14:31 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/10     | 14:33 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 09:35 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 09:40 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 09:44 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 09:48 | Low Sample Detected |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 10:01 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 10:05 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 10:23 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 10:36 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 10:42 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 10:46 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 11:11 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 11:18 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 11:31 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 11:35 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 11:42 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 11:45 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 11:50 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 11:57 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 12:02 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 12:05 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 12:11 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 12:14 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 12:28 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 12:34 | Low Sample Detected |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 12:44 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 12:51 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 13:11 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 13:17 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 13:25 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 13:28 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 13:32 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 13:35 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 14:10 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 14:18 |                     |
| Boat      | Sampler | ...Sample   | .. | ..2018/09/11   | 14:31 | ..                  |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 14:38 |                     |
| Boat      | Sampler | Sample      |    | 2018/09/11     | 14:48 |                     |

|              |     |        |    |                    |                     |
|--------------|-----|--------|----|--------------------|---------------------|
| Boat Sampler | ... | Sample | .. | ..2018/09/11 14:59 | ..                  |
| Boat Sampler |     | Sample |    | 2018/09/11 15:03   |                     |
| Boat Sampler |     | Sample |    | 2018/09/11 15:07   |                     |
| Boat Sampler | ... | Sample | .. | ..2018/09/11 15:20 | ..                  |
| Boat Sampler |     | Sample |    | 2018/09/11 15:24   | Low Sample Detected |

```
=====
Sample ID:   CCV                               Mode:      TOC
Method:      Boat Sampler                     Filename:   09101001
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:04
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1094.3022 | 43.7721 | 7400311  | -0.430                | 0.570              | 141                 |

```
=====
```

```
Sample ID:   CCB                               Mode:      TOC
Method:      Boat Sampler                     Filename:   09101005
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:08
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 43.7643 | 1.7506 | 295960   | -0.648                | 0.347              | 84                  |

```
=====
```

```
Sample ID:   LB97810BLS                       Mode:      TOC
Method:      Boat Sampler                     Filename:   09101009
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:11
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 9.3584 | 0.3743 | 63287    | -0.745                | 0.253              | 65                  |

```
=====
```

```
Sample ID:   LB97810BLS                       Mode:      TOC
Method:      Boat Sampler                     Filename:   09101012
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:14
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 8.4196 | 0.3368 | 56938    | -0.560                | 0.436              | 65                  |

```
=====
```

```
Sample ID:   LB97810BSS                       Mode:      TOC
Method:      Boat Sampler                     Filename:   09101015
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:18
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1094.1060 | 43.7642 | 7398985  | -0.680                | 0.318              | 173                 |

```
=====
```

```
Sample ID:   LB97810BSS                       Mode:      TOC
Method:      Boat Sampler                     Filename:   09101024
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:27
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1047.7542 | 41.9102 | 7085527  | -0.492                | 0.504              | 150                 |

```
=====
```

```
Sample ID:   J4693-01                         Mode:      TOC
Method:      Boat Sampler                     Filename:   09101056
Cal. Curve:  TOC SOIL                         Timestamp: 2018/09/10 10:59
Operator ID: AP AK                           Sample Type: Sample
```

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 870.2658 | 7.2232 | 1221189  | 4.035                 | 5.028              | 55                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-01     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101100         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 11:03 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 772.6414 | 6.3357 | 1071136  | 3.913                 | 4.893              | 61                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-01     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101105         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 11:08 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 904.4830 | 7.0550 | 1192745  | 2.834                 | 3.832              | 54                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-01     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101118         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 11:22 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 664.5988 | 5.7155 | 966297   | 1.117                 | 2.115              | 48                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-02     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101128         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 11:31 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 427.4748 | 3.3343 | 563713   | 1.410                 | 2.406              | 58                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-02     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101132         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 11:35 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 332.6925 | 2.5617 | 433098   | 2.787                 | 3.778              | 49                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-03     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101136         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 11:38 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 876.6715 | 7.9777 | 1348749  | 2.159                 | 3.145              | 55                  |

|            |              |           |          |
|------------|--------------|-----------|----------|
| Sample ID: | J4693-03     | Mode:     | TOC      |
| Method:    | Boat Sampler | Filename: | 09101143 |

Timestamp: 2018/09/10 11:46  
Sample Type: Sample

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-04     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101207         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 12:10 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-04     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101218         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 12:20 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-05     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101222         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 12:25 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-05     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101225         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 12:28 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-06     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101242         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 12:44 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-06     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09101249         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/10 12:53 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

Sample ID: J4693-07 Mode: TOC  
Method: Boat Sampler Filename: 09101258  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:01  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 145.3398 | 1.4243 | 240804   | 2.697                 | 3.688              | 49                  |

Sample ID: J4693-07 Mode: TOC  
Method: Boat Sampler Filename: 09101303  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:06  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 178.1536 | 1.7459 | 295171   | 2.812                 | 3.798              | 49                  |

Sample ID: J4693-08 Mode: TOC  
Method: Boat Sampler Filename: 09101311  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:14  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 970.6207 | 9.5121 | 1608157  | 2.340                 | 3.329              | 54                  |

Sample ID: J4693-08 Mode: TOC  
Method: Boat Sampler Filename: 09101319  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:22  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 847.9578 | 8.0556 | 1361917  | 1.644                 | 2.622              | 62                  |

Sample ID: CCV Mode: TOC  
Method: Boat Sampler Filename: 09101329  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:33  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1021.2875 | 40.8515 | 6906544  | 0.191                 | 1.190              | 163                 |

Sample ID: CCB Mode: TOC  
Method: Boat Sampler Filename: 09101333  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:36  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 35.2264 | 1.4091 | 238222   | 0.004                 | 1.000              | 84                  |

Sample ID: J4693-09 Mode: TOC  
Method: Boat Sampler Filename: 09101339  
Cal. Curve: TOC SOIL Timestamp: 2018/09/10 13:43  
Operator ID: AP AK Sample Type: Sample

| Rep # | ppm C | ug C | Raw Data | Beginning | Ending | Integration |
|-------|-------|------|----------|-----------|--------|-------------|
|-------|-------|------|----------|-----------|--------|-------------|



| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2498.5803 | 24.4861 | 4139731  | 0.084                 | 1.084              | 91                  |

=====

Sample ID: J4693-09      Mode: TOC  
Method: Boat Sampler      Filename: 09101344  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/10 13:47  
Operator ID: AP AK      Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2109.0413 | 20.0359 | 3387361  | 4.373                 | 5.353              | 64                  |

=====

Sample ID: J4693-10      Mode: TOC  
Method: Boat Sampler      Filename: 09101347  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/10 13:51  
Operator ID: AP AK      Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 567.5161 | 4.5969 | 777170   | 3.127                 | 4.101              | 53                  |

=====

Sample ID: J4693-10      Mode: TOC  
Method: Boat Sampler      Filename: 09101354  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/10 14:00  
Operator ID: AP AK      Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 737.2759 | 6.2668 | 1059502  | 0.463                 | 1.461              | 231                 |

=====

Sample ID: CCV      Mode: TOC  
Method: Boat Sampler      Filename: 09101428  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/10 14:31  
Operator ID: AP AK      Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1035.4198 | 41.4168 | 7002114  | 1.238                 | 2.238              | 132                 |

=====

Sample ID: CCB      Mode: TOC  
Method: Boat Sampler      Filename: 09101432  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/10 14:33  
Operator ID: AP AK      Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 16.1769 | 0.6471 | 109397   | 0.946                 | 1.938              | 55                  |

=====

Sample ID: CCV      Mode: TOC  
Method: Boat Sampler      Filename: 09110932  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/11 09:35  
Operator ID: AP AK      Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1024.5630 | 40.9825 | 6928694  | 2.105                 | 3.105              | 140                 |

=====

Sample ID: CCB      Mode: TOC  
Method: Boat Sampler      Filename: 09110937  
Cal. Curve: TOC SOIL      Timestamp: 2018/09/11 09:40

Operator ID: AP AK

Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 8.3987 | 0.3359 | 56797    | 1.288                 | 2.286              | 80                  |

Sample ID: LB97810BLS2  
Method: Boat Sampler  
Cal. Curve: TOC SOIL  
Operator ID: AP AK

Mode: TOC  
Filename: 09110941  
Timestamp: 2018/09/11 09:44  
Sample Type: Sample

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 13.1034 | 0.5241 | 88613    | 1.073                 | 2.068              | 78                  |

Sample ID: LB97810BLS2  
Method: Boat Sampler  
Cal. Curve: TOC SOIL  
Operator ID: AP AK

Mode: TOC  
Filename: 09110945  
Timestamp: 2018/09/11 09:48  
Sample Type: Sample

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 8.5638 | 0.3426 | 57913    | 1.032                 | 1.235              | 120                 |

Last Message: Low Sample Detected

Sample ID: LB97810BSS2  
Method: Boat Sampler  
Cal. Curve: TOC SOIL  
Operator ID: AP AK

Mode: TOC  
Filename: 09110958  
Timestamp: 2018/09/11 10:01  
Sample Type: Sample

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1005.5715 | 40.2229 | 6800263  | 2.520                 | 3.516              | 132                 |

Sample ID: LB97810BSS2  
Method: Boat Sampler  
Cal. Curve: TOC SOIL  
Operator ID: AP AK

Mode: TOC  
Filename: 09111001  
Timestamp: 2018/09/11 10:05  
Sample Type: Sample

| Rep # | ppm C    | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 987.0534 | 39.4821 | 6675032  | 1.109                 | 2.107              | 175                 |

Sample ID: J4693-10DUP  
Method: Boat Sampler  
Cal. Curve: TOC SOIL  
Operator ID: AP AK

Mode: TOC  
Filename: 09111019  
Timestamp: 2018/09/11 10:23  
Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 583.6124 | 5.8945 | 996549   | 2.887                 | 3.876              | 54                  |

Sample ID: J4693-10DUP  
Method: Boat Sampler  
Cal. Curve: TOC SOIL  
Operator ID: AP AK

Mode: TOC  
Filename: 09111033  
Timestamp: 2018/09/11 10:36  
Sample Type: Sample

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 673.1538 | 5.3852 | 910452   | 2.591                 | 3.589              | 51                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-11MS   | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111038         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 10:42 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1260.5243 | 11.3447 | 1917991  | 3.133                 | 4.095              | 54                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-11MS   | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111043         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 10:46 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1332.3051 | 11.1914 | 1892064  | 4.075                 | 5.041              | 55                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-12MSD  | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111108         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:11 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1339.5211 | 12.5915 | 2128777  | 4.734                 | 5.683              | 58                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-12MSD  | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111115         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:18 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1322.8647 | 12.8318 | 2169402  | 3.066                 | 4.043              | 59                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-13     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111128         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:31 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 609.7795 | 5.4880 | 927829   | 1.530                 | 2.527              | 53                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-13     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111133         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:35 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 510.7406 | 4.8010 | 811673   | 1.242                 | 2.230              | 58                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-14     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111139         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:42 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2122.9539 | 18.8943 | 3194356  | 1.489                 | 2.473              | 69                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-14     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111142         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:45 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 2058.8379 | 18.3237 | 3097882  | 3.011                 | 3.985              | 64                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-15     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111147         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:50 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 451.0902 | 3.8794 | 655865   | 1.446                 | 2.443              | 57                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-15     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111154         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 11:57 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 543.7332 | 4.7305 | 799757   | 1.484                 | 2.484              | 55                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-16     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111159         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:02 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1422.5673 | 12.0918 | 2044299  | 1.468                 | 2.453              | 64                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-16     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111203         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:05 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 1113.4962 | 9.9101 | 1675450  | 1.448                 | 2.448              | 70                  |

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-17     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111209         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:11 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1727.5103 | 14.6838 | 2482517  | 1.291                 | 2.279              | 71                  |

|            |          |       |     |
|------------|----------|-------|-----|
| Sample ID: | J4693-17 | Mode: | TOC |
|------------|----------|-------|-----|

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Method:      | Boat Sampler | Filename:    | 09111211         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:14 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1568.0258 | 13.1714 | 2226820  | 1.535                 | 2.533              | 62                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | CCV          | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111224         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:28 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1038.5793 | 41.5432 | 7023481  | 0.437                 | 1.434              | 170                 |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | CCB          | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111232         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:34 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C   | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|---------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 11.8454 | 0.4738 | 80105    | 0.328                 | 0.530              | 120                 |

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Last Message: Low Sample Detected

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|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-18     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111241         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:44 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 433.4796 | 3.8580 | 652246   | 1.843                 | 2.822              | 51                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-18     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111249         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 12:51 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 525.3235 | 4.6228 | 781560   | 1.543                 | 2.528              | 47                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-19     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111309         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 13:11 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 615.4494 | 4.9851 | 842811   | 1.705                 | 2.700              | 53                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-19     | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111315         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 13:17 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
|-------|-------|------|----------|-----------------------|--------------------|---------------------|

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-22DUP  | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111428         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 14:31 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending | Integration |
|-------|----------|--------|----------|-----------------------|--------|-------------|
|       | Baseline | Time   |          |                       |        |             |
| 1     | 135.4104 | 0.9750 | 164830   | 3.002                 | 3.997  | 44          |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-22DUP  | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111436         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 14:38 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C    | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|----------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 122.0846 | 1.0011 | 169250   | 3.363                 | 4.353              | 42                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-22MS   | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111445         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 14:48 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1138.2188 | 10.8131 | 1828109  | 3.442                 | 4.415              | 56                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-22MS   | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111456         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 14:59 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1102.5780 | 10.9155 | 1845429  | 2.986                 | 3.964              | 53                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-22MSD  | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111500         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 15:03 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1106.2987 | 10.9524 | 1851656  | 2.743                 | 3.712              | 56                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | J4693-22MSD  | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111504         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 15:07 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1423.5703 | 13.0968 | 2214214  | 3.293                 | 4.289              | 61                  |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | CCV          | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111517         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 15:20 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1018.9628 | 40.7585 | 6890822  | -0.250                | 0.749              | 151                 |

=====

|              |              |              |                  |
|--------------|--------------|--------------|------------------|
| Sample ID:   | CCB          | Mode:        | TOC              |
| Method:      | Boat Sampler | Filename:    | 09111521         |
| Cal. Curve:  | TOC SOIL     | Timestamp:   | 2018/09/11 15:24 |
| Operator ID: | AP AK        | Sample Type: | Sample           |

| Rep # | ppm C  | ug C   | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|--------|--------|----------|-----------------------|--------------------|---------------------|
| 1     | 8.9109 | 0.3564 | 60261    | -0.271                | -0.152             | 120                 |

-----  
Last Message: Low Sample Detected  
=====



| CHEMTECH                  |             |               |                      |       |                                                                                             |
|---------------------------|-------------|---------------|----------------------|-------|---------------------------------------------------------------------------------------------|
| SOP ID: MLLOYD KAHN-TOC   |             |               | Analyst: AK          |       |                                                                                             |
| QA Control Code: A2040083 |             |               | Balance ID : WC SC-2 |       |                                                                                             |
| Sample ID                 | Weight (mg) | Results (PPM) | Age-Results (d)      | RSD   | STDEV                                                                                       |
| LB97810BLS                | 40.0        | 9.3           | 9                    | 7.19  |                                                                                             |
| LB97810BLS                | 40.0        | 8.4           |                      |       |                                                                                             |
| LB97810BSS                | 40.0        | 1094          | 1071                 | 3.10  |                                                                                             |
| LB97810BSS                | 40.0        | 1047          |                      |       |                                                                                             |
| J4693-01                  | 8.3         | 870           | 803                  | 13.45 | 107.97                                                                                      |
| J4693-01                  | 8.2         | 772           |                      |       | which is<br>less than<br>3X2874.86<br>=8624.58<br>* 2874.86 is<br>STDEV<br>for 15 replicate |
| J4693-01                  | 7.8         | 904           |                      |       |                                                                                             |
| J4693-01                  | 8.6         | 664           |                      |       |                                                                                             |
| J4693-02                  | 7.8         | 427           | 380                  | 17.70 |                                                                                             |
| J4693-02                  | 7.7         | 332           |                      |       |                                                                                             |
| J4693-03                  | 9.1         | 876           | 774                  | 18.64 |                                                                                             |
| J4693-03                  | 9.8         | 672           |                      |       |                                                                                             |
| J4693-04                  | 8.6         | 1241          | 1346                 | 10.98 |                                                                                             |
| J4693-04                  | 9.6         | 1450          |                      |       |                                                                                             |
| J4693-05                  | 8.3         | 169           | 170                  | 0.83  |                                                                                             |
| J4693-05                  | 9.2         | 171           |                      |       | I5026-02<br>SAMPLE<br>run on<br>9/8/2017                                                    |
| J4693-06                  | 8.0         | 412           | 413                  | 0.34  |                                                                                             |
| J4693-06                  | 7.7         | 414           |                      |       |                                                                                             |
| J4693-07                  | 9.8         | 145           | 162                  | 14.45 |                                                                                             |
| J4693-07                  | 9.8         | 178           |                      |       |                                                                                             |
| J4693-08                  | 9.8         | 970           | 909                  | 9.57  |                                                                                             |
| J4693-08                  | 9.5         | 847           |                      |       |                                                                                             |
| J4693-09                  | 9.8         | 2498          | 2304                 | 11.94 |                                                                                             |
| J4693-09                  | 9.5         | 2109          |                      |       |                                                                                             |
| J4693-10                  | 8.1         | 567           | 652                  | 18.44 |                                                                                             |
| J4693-10                  | 8.5         | 737           |                      |       |                                                                                             |
| LB97810BLS2               | 40.0        | 13            | 11                   | 33.67 |                                                                                             |
| LB97810BLS2               | 40.0        | 8             |                      |       |                                                                                             |
| LB97810BSS2               | 40.0        | 1005          | 996                  | 1.28  |                                                                                             |
| LB97810BSS2               | 40.0        | 987           |                      |       |                                                                                             |
| J4693-10DUP               | 10.0        | 583           | 628                  | 10.13 |                                                                                             |
| J4693-10DUP               | 8.0         | 673           |                      |       |                                                                                             |
| J4693-11MS                | 9.0         | 1260          | 1296                 | 3.93  |                                                                                             |
| J4693-11MS                | 8.4         | 1332          |                      |       |                                                                                             |
| J4693-12MSD               | 9.4         | 1339          | 1331                 | 0.90  |                                                                                             |
| J4693-12MSD               | 9.7         | 1322          |                      |       |                                                                                             |
| J4693-13                  | 9.0         | 609           | 560                  | 12.51 |                                                                                             |
| J4693-13                  | 9.4         | 510           |                      |       |                                                                                             |
| J4693-14                  | 8.9         | 2122          | 2090                 | 2.17  |                                                                                             |
| J4693-14                  | 8.9         | 2058          |                      |       |                                                                                             |
| J4693-15                  | 8.6         | 451           | 497                  | 13.09 |                                                                                             |
| J4693-15                  | 8.7         | 543           |                      |       |                                                                                             |
| J4693-16                  | 8.5         | 1422          | 1268                 | 17.24 |                                                                                             |
| J4693-16                  | 8.9         | 1113          |                      |       |                                                                                             |
| J4693-17                  | 8.5         | 1727          | 1648                 | 6.82  |                                                                                             |
| J4693-17                  | 8.4         | 1568          |                      |       |                                                                                             |
| J4693-18                  | 8.9         | 433           | 479                  | 13.58 |                                                                                             |

| Sample ID   | Weight (mg) | Results (PPM) | Age-Results (t) | RSD   | STDEV |
|-------------|-------------|---------------|-----------------|-------|-------|
| J4693-18    | 8.8         | 525           |                 |       |       |
| J4693-19    | 8.1         | 615           | 626             | 2.37  |       |
| J4693-19    | 9.0         | 636           |                 |       |       |
| J4693-20    | 8.9         | 832           | 833             | 0.08  |       |
| J4693-20    | 8.9         | 833           |                 |       |       |
| J4693-21    | 8.2         | 552           | 548             | 1.16  |       |
| J4693-21    | 8.8         | 543           |                 |       |       |
| J4693-22    | 8.3         | 120           | 115             | 6.15  |       |
| J4693-22    | 6.8         | 110           |                 |       |       |
| J4693-22DUP | 7.2         | 135           | 129             | 7.15  |       |
| J4693-22DUP | 8.2         | 122           |                 |       |       |
| J4693-22MS  | 9.5         | 1138          | 1120            | 2.27  |       |
| J4693-22MS  | 9.9         | 1102          |                 |       |       |
| J4693-22MSD | 9.9         | 1106          | 1265            | 17.73 |       |
| J4693-22MSD | 9.2         | 1423          |                 |       |       |

| Sample ID     | Result     | Std. Dev. | RSD | Mode | ALT |
|---------------|------------|-----------|-----|------|-----|
| =====         |            |           |     |      |     |
| BLANK         | 91962      |           |     | TOC  |     |
| 250mg/l       | 1870112    |           |     | TOC  |     |
| 500mg/l       | 3619252    |           |     | TOC  |     |
| 1000mg/l..... | 7140397... | ..        | ... | TOC  | ..  |
| 2000mg/l      | 13624163   |           |     | TOC  |     |
| ICV           | 1089.2725  |           |     | TOC  |     |
| ICB.....      | 14.3407... | ..        | ... | TOC  | ..  |

| Method ID    | Sample Type     | Vial | Timestamp          | Message |
|--------------|-----------------|------|--------------------|---------|
| Boat Sampler | TOC Standard    |      | 2018/08/14 09:28   |         |
| Boat Sampler | TOC Standard    |      | 2018/08/14 09:33   |         |
| Boat Sampler | TOC Standard    |      | 2018/08/14 09:44   |         |
| Boat Sampler | ...TOC Standard | ..   | ..2018/08/14 09:48 | ..      |
| Boat Sampler | TOC Standard    |      | 2018/08/14 09:55   |         |
| Boat Sampler | Sample          |      | 2018/08/14 10:01   |         |
| Boat Sampler | ...Sample       | ..   | ..2018/08/14 10:05 | ..      |

```
=====
Sample ID:   BLANK                      Mode:      TOC
Method:      Boat Sampler               Filename:   08140926
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 09:28
Operator ID: AP AK                     Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 91962    | 0.094                 | 1.091              | 85                  |

```
=====
```

```
Sample ID:   250mg/l                   Mode:      TOC
Method:      Boat Sampler               Filename:   08140930
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 09:33
Operator ID: AP AK                     Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 1870112  | 0.087                 | 1.085              | 115                 |

```
=====
```

```
Sample ID:   500mg/l                   Mode:      TOC
Method:      Boat Sampler               Filename:   08140940
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 09:44
Operator ID: AP AK                     Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 3619252  | 0.093                 | 1.091              | 120                 |

```
=====
```

```
Sample ID:   1000mg/l                  Mode:      TOC
Method:      Boat Sampler               Filename:   08140945
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 09:48
Operator ID: AP AK                     Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 7140397  | 0.257                 | 1.255              | 144                 |

```
=====
```

```
Sample ID:   2000mg/l                  Mode:      TOC
Method:      Boat Sampler               Filename:   08140950
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 09:55
Operator ID: AP AK                     Sample Type: TOC Standard
```

| Rep # | ppm C | ug C | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-------|------|----------|-----------------------|--------------------|---------------------|
| 1     |       |      | 13624163 | 0.124                 | 1.124              | 195                 |

```
=====
```

```
Sample ID:   ICV                       Mode:      TOC
Method:      Boat Sampler               Filename:   08140958
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 10:01
Operator ID: AP AK                     Sample Type: Sample
```

| Rep # | ppm C     | ug C    | Raw Data | Beginning<br>Baseline | Ending<br>Baseline | Integration<br>Time |
|-------|-----------|---------|----------|-----------------------|--------------------|---------------------|
| 1     | 1089.2725 | 43.5709 | 7366297  | 0.072                 | 1.070              | 177                 |

```
=====
```

```
Sample ID:   ICB                       Mode:      TOC
Method:      Boat Sampler               Filename:   08141002
Cal. Curve:  TOC SOIL                  Timestamp: 2018/08/14 10:05
Operator ID: AP AK                     Sample Type: Sample
```



Cal. Curve ID: TOC SOIL  
Created: 2018/08/14 09:57  
Calibration Factor (m): 1.691e+05  
Y Intercept (b): 197238  
r-squared: 0.99952

| Standard ID | Y<br>Raw Data | X Expected<br>ug C | Measured<br>ug C | Message | Date &<br>Time   |
|-------------|---------------|--------------------|------------------|---------|------------------|
| BLANK       | 91962         | 0.000              | -0.623           |         | 2018/08/14 09:28 |
| 250mg/l     | 1870112       | 10.000             | 9.895            |         | 2018/08/14 09:33 |
| 500mg/l     | 3619252       | 20.000             | 20.241           |         | 2018/08/14 09:44 |
| 1000mg/l    | 7140396       | 40.000             | 41.068           |         | 2018/08/14 09:48 |
| 2000mg/l    | 13624163      | 80.000             | 79.419           |         | 2018/08/14 09:55 |