

# Limited Site Investigation

FEDERAL COMPLEX  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MISSOURI

November 5, 2010  
Terracon Project No. 15107073

**Prepared for:**  
General Services Administration  
Kansas City, Missouri

**Prepared by:**  
Terracon Consultants, Inc.  
St. Louis, Missouri

Offices Nationwide  
Employee-Owned

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**Terracon**

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities



November 5, 2010

General Services Administration  
Heartland Region  
Facilities Management Division  
1500 East Bannister Road, Room 2101  
Kansas City, MO 64131

Attn: Mr. Dave Hartshorn  
Safety & Environmental Team Leader  
P: [816] 823 2227  
E: david.hartshorn@gsa.gov

Re: Limited Subsurface Investigation  
Sewer Improvements Project  
Former St. Louis Ordnance Plant  
4300 Goodfellow Boulevard  
St. Louis, Missouri  
Project No. 15107073

Dear Mr. Hartshorn:

Terracon Consultants, Inc. (Terracon) has completed a Limited Site Investigation (LSI) at the above-referenced property. This investigation was performed in accordance with the LSI Scope of Work as outlined in Terracon Proposal No. P15100356 dated September 22, 2010, and subsequent email dated October 6, 2010.

Terracon appreciates the opportunity to be of continued service to General Services Administration. If you have any questions or comments pertaining to the material presented please contact the undersigned at [314] 692 8811.

Sincerely,

Terracon Consultants, Inc.

(b) (6)

Eric Schatz  
Staff Environmental Scientist

(b) (6)

Brian Porter, PE  
Environmental Services Manager

Terracon Consultants, Inc. 11600 Lilburn Park Road St. Louis, Missouri 63146  
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Geotechnical

Environmental

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**LIMITED SITE INVESTIGATION  
FEDERAL COMPLEX  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS, MISSOURI**

**Terracon Project No. 15107073  
November 5, 2010**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) has completed a Limited Site Investigation (LSI) on a portion of the Federal Office complex located at 4300 Goodfellow Boulevard in St. Louis, Missouri. The location of the site is illustrated on Exhibit 1 in Appendix A. The general layout of the site and sample locations are illustrated on Exhibit 2 in Appendix A. Tables summarizing the analytical results and the laboratory analytical reports are provided in Appendix B.

Terracon's LSI activities were completed in general accordance with Terracon Proposal No. P15100356, dated September 22, 2010, and subsequent email dated October 6, 2010. The purpose of the activities was to evaluate subsurface conditions in areas planned for excavation as part of storm sewer upgrades. Historical site investigation documents for the site indicate that metals and polycyclic aromatic hydrocarbons (PAHs) have been identified in nearby buildings and shallow soil.

### **1.1 Standard of Care**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These LSI services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-97.

### **1.2 Additional Scope Limitations**

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may

## Limited Site Investigation

Goodfellow Federal Complex ■ St. Louis, Missouri  
November 5, 2010 ■ Terracon Project No. 15107073



vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

## 2.0 SCOPE OF SERVICES

On October 18 and 19, 2010, Terracon mobilized to the site in order to sample areas planned for excavation as part of storm sewer upgrades. Based on the depth of construction provided by the General Services Administration (GSA), borings B-1 through B-28 were advanced at the site to depths of approximately 16 feet below ground surface (bgs). The soil boring locations are depicted on Exhibit 2 in Appendix A. Soil types encountered generally consisted of silt, gravel, and clay with bricks and wood fragments (fill) over silt and silty clays. Groundwater was not encountered.

Soil borings B-10, B-11, B-13, B-14, B-18, B-19, B-21, and B-23 through B-28 were advanced with direct-push drilling equipment on October 18, 2010. Soil borings B-1 through B-9, B-12, and B-15 through B-17, B-20, and B-22 were advanced on October 19, 2010. Soil samples were collected from the surface to 2 foot bgs, and from 2 to 16 feet bgs at each boring.

Probing equipment and other non-dedicated sampling equipment were cleaned using an Alconox®/water wash and scrubbing, followed by a potable water rinse.

The soil samples were submitted to Teklab, Inc.<sup>1</sup> (Teklab) in Collinsville, Illinois for analysis for Resource Conservation and Recovery Act (RCRA) metals by EPA Method 3050B 6010B, and PAHs by EPA Method 8270.

## 3.0 ANALYTICAL DATA

Table 1 in Appendix B summarizes the soil sample analytical results. The laboratory report is provided in Appendix C. The concentrations detected were compared to Missouri Default Target Levels (DTLs), which are the levels established by the Missouri Department of Natural Resources (MDNR) to quantify and protect receptors from all complete exposure pathways for unrestricted use.

Several PAHs were detected during laboratory analysis of the soil samples. Benzo(a)pyrene was detected above its DTL (0.62 milligrams per kilogram, or mg/kg) in samples from the following locations.

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<sup>1</sup> National Environmental Laboratory Accreditation Program laboratory #100226

## Limited Site Investigation

Goodfellow Federal Complex ■ St. Louis, Missouri

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**Table 3-1 Summary of Benzo(a)pyrene Concentrations**

Sample	Depth (feet)	Concentration (mg/kg)
B-7A	1	0.889
B-11A	1	11.6
B-13A	1	1.5
B-19A	1	0.971

The levels detected exceed risk-based concentrations established by the MDNR to protect occupants (residential and non-residential), but are below levels considered protective of construction workers. Therefore, the conditions do not appear to be a concern for workers engaged in the proposed activities. However, the potential exists for benzo(a)pyrene to be present above concentrations intended to protect occupants, and so excavated soil removed from the upper two feet in these areas of the site should be disposed of as a special waste.

In addition to benzo(a)pyrene, the concentrations of several other PAHs in the shallow sample from B-11 (B-11A) were above their DTLs. The results; however, below risk-based levels considered protective of construction workers.

Each soil sample had reported concentrations of several RCRA metals above the laboratory's detection limits. Reported arsenic concentrations above the DTL of 3.89 mg/kg ranged from 3.91 mg/kg to 16.9 mg/kg. However, since many metals are naturally-occurring, the MDNR allows for comparison to published background levels. In determining these levels, the MDNR routinely references United States Geological Survey Open-File Report 2004-1001. Current practice is to consider the average concentration plus two standard deviations representative of background conditions. Following this practice, arsenic concentrations below 14.182 mg/kg would be considered background. The concentrations at the site are below this level except for the concentration detected in the shallow soil sample from B-24 (B-24A). Arsenic concentrations in each of the samples were below the levels determined to be protective of construction workers, therefore, conditions do not appear to be a concern for workers.

Reported lead concentrations in the soil samples ranged from 7.7 mg/kg to 163 mg/kg, which exceed the DTL of 3.74 mg/kg. Following the practice previously described, lead concentrations below 98.565 mg/kg would be considered background. The concentration in the shallow soil samples from B-16 (B-16A) (163 mg/kg) and from B-19 (B-19A) (120 mg/kg) were above this level. Lead concentrations in the other samples were below the background level. The DTL for lead is based on the soil concentration necessary to protect potential potable use of groundwater. Levels established by the MDNR to protect the health of occupants (including residential) range from 260 to 660 mg/kg. Since the concentrations at the site are below occupant-based and construction worker health levels, the conditions do not appear to be a concern for workers engaged in the proposed activities. However, the potential exists for lead to

## Limited Site Investigation

Goodfellow Federal Complex ■ St. Louis, Missouri

November 5, 2010 ■ Terracon Project No. 15107073



be present above concentrations intended to protect the potable use of groundwater, and so excavated soil should be disposed of as a special waste.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

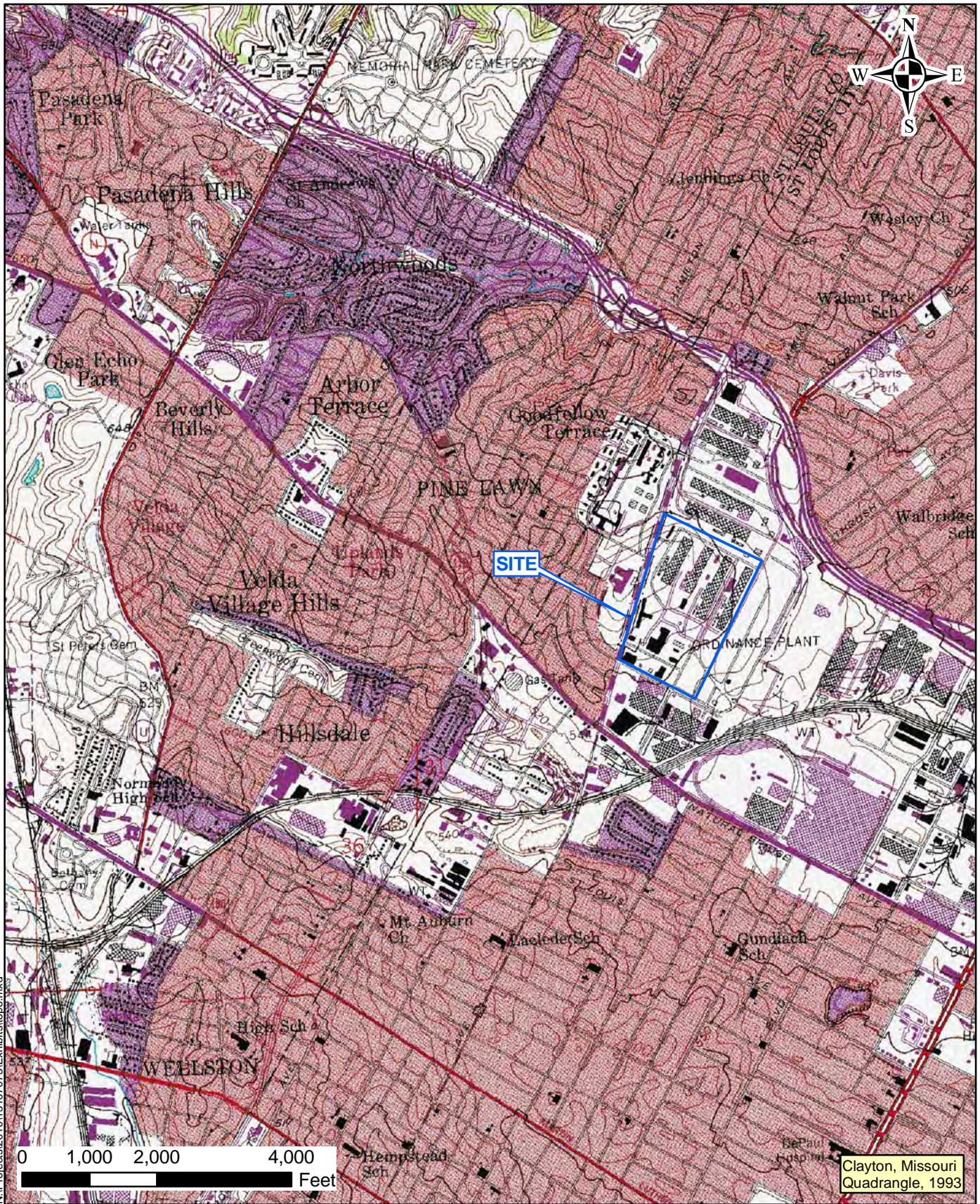
This investigation was performed in general accordance with Terracon Proposal No. P15100356 dated September 22, 2010, and subsequent email dated October 6, 2010. The purpose of the investigation was to evaluate subsurface conditions in areas planned for excavation as part of storm sewer upgrades.

The soil in the areas tested does not appear to be contaminated above levels protective of construction workers, and conditions do not appear to be a concern for workers engaged in the proposed activities. However, PAHs, arsenic, and/or lead are present in certain locations above background and/or concentrations intended to protect the health of occupants and/or the potable use of groundwater, particularly near the surface. As such, Terracon recommends that near-surface (e.g., upper 2 feet) of soil excavated from areas near B-7, B-11, B-13, B-16, B-19, and B-24 be disposed of as special waste in accordance with applicable regulations. Alternatively, excavated soil from these areas could be reused on-site.

The soil concentrations deeper than 2 feet and not in the vicinity of the previously mentioned areas were below the DTLs established by the MDNR to protect receptors from all complete exposure pathways for unrestricted use, and may be considered clean by the GSA.

Terracon recommends additional testing that if unexpected conditions are encountered during construction, such as obvious staining, odors, or other potential indicators of contamination.





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Clayton, Missouri  
Quadrangle, 1993

Project Mngr:	BRP
Drawn By:	HLE
Checked By:	EAS
Approved By:	BRP
Date:	11/03/2010

**Terracon**  
Consulting Engineers & Scientists

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**TOPOGRAPHIC MAP**  
SOILS CHARACTERIZATION  
GOODFELLOW SOILS CHARACTERIZATION  
4300 GOODFELLOW BOULEVARD  
ST. LOUIS MISSOURI

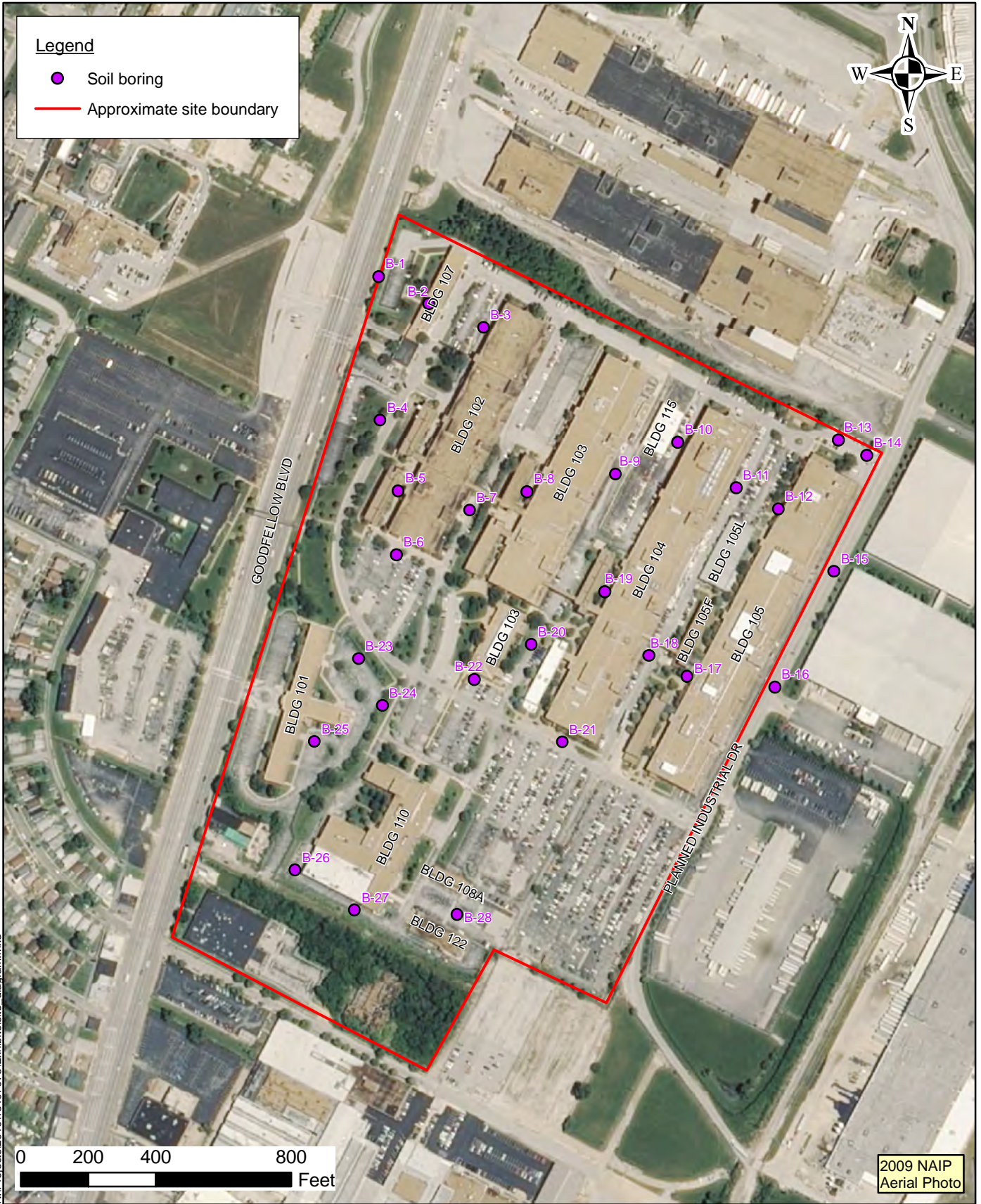
**EXHIBIT**  
**1**





**Legend**

- Soil boring
- Approximate site boundary



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Project Mngr:	BRP
Drawn By:	HLE
Checked By:	EAS
Approved By:	BRP
Date:	11/03/2010

11600 Lilburn Park Road St. Louis, MO 63146  
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**SITE DIAGRAM**  
**SOILS CHARACTERIZATION**  
**GOODFELLOW SOILS CHARACTERIZATION**  
**4300 GOODFELLOW BOULEVARD**

ST. LOUIS MISSOURI

**EXHIBIT**

**2**

## Table Notes

Default Target Levels from Table B-1, *Missouri Risk-Based Corrective Action Technical Guidance*, June 2006 with June 2008 Revisions.

mg/L = milligrams per liter, generally equivalent to parts per million (ppm)

mg/kg = milligrams per kilogram, generally equivalent to ppm

NA = Not Analyzed

ND = Not Detected

Table 1 - Soil Analytical Results  
 Federal Complex  
 4300 Goodfellow Boulevard  
 St. Louis, Missouri

Sample Location/Identification			B-1A	B-1B	B-2A	B2-B	B-3A	B-3B	B-4A	B-4B	B-5A	B-5B	B-6A	B-6B	B-7A	B-7B	B-8A
Sample Depth (feet)			0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2
Date Collected			10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/19/2010
CAS #	Compound	Units															
<b>Semi-Volatile Organic Compounds</b>																	
83-32-9	Acenaphthene	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.065	< 0.004	< 0.004	0.168	0.028	< 0.004
208-96-8	Acenaphthylene	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.028	0.026	< 0.004
120-12-7	Anthracene	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.121	< 0.004	< 0.004	0.529	0.112	< 0.004
56-55-3	Benzo(a)anthracene	mg/kg	< 0.004	< 0.004	0.009	< 0.004	0.006	< 0.004	0.003	0.004	0.012	0.293	< 0.004	0.004	1.04	0.478	0.013
50-32-8	Benzo(a)pyrene	mg/kg	< 0.004	< 0.004	0.006	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.007	0.253	< 0.004	< 0.004	<b>0.889</b>	0.487	0.009
205-99-2	Benzo(b)fluoranthene	mg/kg	< 0.004	< 0.004	0.011	< 0.004	0.005	< 0.004	< 0.004	0.013	0.341	< 0.004	< 0.004	1.32	0.716	0.014	
191-24-2	Benzo(g,h,i)perylene	mg/kg	< 0.004	< 0.004	0.005	< 0.004	< 0.004	< 0.004	< 0.004	0.009	0.181	< 0.004	< 0.004	0.622	0.355	0.009	
207-08-9	Benzo(k)fluoranthene	mg/kg	< 0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.005	0.105	< 0.004	< 0.004	0.449	0.269	0.005	
218-01-9	Chrysene	mg/kg	< 0.004	< 0.004	0.006	< 0.004	< 0.004	< 0.004	< 0.004	0.007	0.276	< 0.004	< 0.004	1.11	0.514	0.01	
53-70-3	Dibenz(a,h)anthracene	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.044	< 0.004	< 0.004	0.182	0.087	< 0.004	
206-44-0	Fluoranthene	mg/kg	< 0.004	< 0.004	0.014	< 0.004	0.009	< 0.004	0.005	0.008	0.022	0.869	< 0.004	< 0.004	4.17	1.7	0.032
86-73-7	Fluorene	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.061	< 0.004	< 0.004	0.144	< 0.022	< 0.004	
193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	< 0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006	0.162	< 0.004	< 0.004	0.631	0.3	0.005	
91-20-3	Naphthalene	mg/kg	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.023	< 0.004	< 0.004	0.02	< 0.022	< 0.004	
85-01-8	Phenanthrene	mg/kg	< 0.004	< 0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.006	0.709	< 0.004	< 0.004	2.48	0.723	0.016	
129-00-0	Pyrene	mg/kg	< 0.004	< 0.004	0.01	< 0.004	0.009	< 0.004	0.004	0.018	0.706	< 0.004	< 0.004	3.23	1.43	0.029	
<b>Metals</b>																	
7440-38-2	Arsenic	mg/kg	<b>4.84</b>	3.01	3.55	1.4	2.88	< 2.40	<b>3.99</b>	3.82	2.74	<b>3.92</b>	< 2.23	2.97	3.39	<b>5.07</b>	<b>5.41</b>
7440-39-3	Barium	mg/kg	161	96.1	104	64.5	167	21.4	94.6	134	115	108	87.5	118	114	161	155
7440-43-9	Cadmium	mg/kg	0.38	< 0.19	0.12	< 0.19	0.1	< 0.19	< 0.19	< 0.20	0.1	< 0.20	< 0.18	< 0.20	0.12	0.09	< 0.20
7440-47-3	Chromium	mg/kg	19.8	26.4	18.1	21.6	16.2	21.5	31.1	29.1	19.7	19.8	20.6	23.7	21.6	35	18.5
7439-92-1	Lead	mg/kg	<b>18.9</b>	<b>17.1</b>	<b>10.7</b>	<b>12.4</b>	<b>9.61</b>	<b>7.88</b>	<b>11.9</b>	<b>18.3</b>	<b>13.7</b>	<b>16</b>	<b>9.98</b>	<b>15</b>	<b>33.3</b>	<b>17.7</b>	<b>15.3</b>
7782-49-2	Selenium	mg/kg	< 3.92	< 3.77	< 4.0	< 3.85	< 3.77	< 3.85	< 3.77	< 4.0	< 3.92	< 4.00	< 3.57	< 3.92	< 3.70	< 3.64	< 4.00
7440-22-4	Silver	mg/kg	< 0.54	< 0.52	< 0.55	< 0.53	< 0.52	< 0.53	< 0.52	< 0.55	< 0.54	< 0.55	< 0.49	< 0.54	< 0.51	< 0.50	< 0.55
7439-97-6	Mercury	mg/kg	0.032	0.006	0.028	0.038	0.034	< 0.011	0.045	0.021	0.047	0.033	0.029	0.033	0.076	0.035	0.035



Table 1 - Soil Analytical Results  
 Federal Complex  
 4300 Goodfellow Boulevard  
 St. Louis, Missouri

Sample Location/Identification			B-8B	B-9A	B-9B	B-10A	B-10B	B-11A	B-11B	B-12A	B-12B	B-13A	B-13B	B-14A	B-14B	B-15A	B-15B
Sample Depth (feet)			16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16
Date Collected			10/19/2010	10/19/2010	10/19/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/19/2010	10/19/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/19/2010	10/19/2010
CAS #	Compound	Units															
<b>Semi-Volatile Organic Compounds</b>																	
83-32-9	Acenaphthene	mg/kg	< 0.004	0.01	< 0.021	< 0.004	< 0.004	4.51	< 0.021	0.008	< 0.004	0.041	0.314	< 0.004	< 0.004	0.005	< 0.004
208-96-8	Acenaphthylene	mg/kg	< 0.004	0.008	< 0.021	< 0.004	< 0.004	0.363	< 0.021	< 0.004	< 0.004	0.004	0.004	< 0.004	< 0.004	< 0.004	< 0.004
120-12-7	Anthracene	mg/kg	0.008	0.027	0.038	< 0.004	< 0.004	8.91	0.024	0.018	< 0.004	0.074	0.677	< 0.004	< 0.004	0.014	< 0.004
56-55-3	Benzo(a)anthracene	mg/kg	0.048	0.087	0.18	0.008	< 0.004	12	0.096	0.068	< 0.004	0.42	1.51	0.009	< 0.004	0.047	0.008
50-32-8	Benzo(a)pyrene	mg/kg	0.055	0.091	0.179	0.006	< 0.004	11.6	0.072	0.073	< 0.004	0.471	1.5	0.011	< 0.004	0.053	0.005
205-99-2	Benzo(b)fluoranthene	mg/kg	0.096	0.137	0.275	0.01	< 0.004	15.3	0.132	0.103	< 0.004	0.753	2.27	0.016	< 0.004	0.073	0.008
191-24-2	Benzo(g,h,i)perylene	mg/kg	0.04	0.063	0.08	< 0.004	< 0.004	4.92	0.028	0.037	< 0.004	0.213	0.692	0.016	< 0.004	0.028	< 0.004
207-08-9	Benzo(k)fluoranthene	mg/kg	0.029	0.043	0.088	< 0.004	< 0.004	5.23	0.044	0.035	< 0.004	0.263	0.687	0.005	< 0.004	0.023	< 0.004
218-01-9	Chrysene	mg/kg	0.062	0.115	0.232	0.007	< 0.004	12.6	0.136	0.084	< 0.004	0.568	1.64	0.008	< 0.004	0.061	0.006
53-70-3	Dibenz(a,h)anthracene	mg/kg	0.009	0.015	0.024	< 0.004	< 0.004	1.45	< 0.021	0.009	< 0.004	0.064	0.218	< 0.004	< 0.004	0.007	< 0.004
206-44-0	Fluoranthene	mg/kg	0.125	0.229	0.423	0.015	< 0.004	34.3	0.341	0.193	< 0.004	1.19	3.93	0.015	< 0.004	0.113	0.014
86-73-7	Fluorene	mg/kg	< 0.004	0.008	< 0.021	< 0.004	< 0.004	4.47	< 0.021	0.007	< 0.004	0.02	0.253	< 0.004	< 0.004	0.008	< 0.004
193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	0.033	0.05	0.08	< 0.004	< 0.004	4.62	0.029	0.034	< 0.004	0.203	0.727	0.006	< 0.004	0.024	< 0.004
91-20-3	Naphthalene	mg/kg	< 0.004	< 0.004	< 0.021	< 0.004	< 0.004	0.855	< 0.021	< 0.004	< 0.004	< 0.004	0.008	< 0.004	< 0.004	< 0.004	< 0.004
85-01-8	Phenanthrene	mg/kg	0.038	0.138	0.184	0.004	< 0.004	29.9	0.124	0.107	< 0.004	0.573	2.85	0.008	< 0.004	0.049	0.007
129-00-0	Pyrene	mg/kg	0.08	0.191	0.322	0.012	< 0.004	27.3	0.276	0.16	< 0.004	1.01	3.12	0.013	< 0.004	0.104	0.01
<b>Metals</b>																	
7440-38-2	Arsenic	mg/kg	4.41	5.04	4.47	3.76	2.71	10.2	2.98	5.03	2.87	4.83	5.49	6.91	4.93	9.71	6.4
7440-39-3	Barium	mg/kg	262	100	112	102	204	93.6	143	124	107	149	154	201	121	139	188
7440-43-9	Cadmium	mg/kg	< 0.20	< 0.19	0.11	< 0.18	0.24	0.16	< 0.20	< 0.19	< 0.19	0.24	0.1	< 0.20	< 0.19	< 0.20	< 0.19
7440-47-3	Chromium	mg/kg	38.4	18.1	19.4	28.9	34	15.1	20	16.5	22.5	23.3	17.8	18.6	29.7	18.9	22.6
7439-92-1	Lead	mg/kg	13.1	16.6	66	21.2	15.4	16.2	9.37	23.3	8.34	77.7	19	18.3	11	21.1	12.5
7782-49-2	Selenium	mg/kg	< 4.00	< 3.85	< 3.92	< 3.64	< 3.57	< 4.00	< 3.92	< 3.85	< 3.77	< 3.85	< 4.00	< 4.00	< 3.85	< 4.00	< 3.85
7440-22-4	Silver	mg/kg	< 0.55	< 0.53	< 0.54	< 0.50	< 0.49	< 0.55	< 0.54	< 0.53	< 0.52	< 0.53	< 0.55	< 0.55	< 0.53	< 0.55	< 0.53
7439-97-6	Mercury	mg/kg	0.027	0.029	0.031	0.022	0.015	0.084	0.038	0.054	0.039	0.12	0.043	0.039	0.03	0.03	0.034

Table 1 - Soil Analytical Results  
 Federal Complex  
 4300 Goodfellow Boulevard  
 St. Louis, Missouri

Sample Location/Identification			B-16A	B-16B	B-17A	B-17B	B-18A	B-18B	B-19A	B-19B	B-20A	B-20B	B-21A	B-21B	B-22A	B-22B	B-23A
Sample Depth (feet)			0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	0-2
Date Collected			10/19/2010	10/19/2010	10/19/2010	10/19/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/19/2010	10/19/2010	10/18/2010	10/18/2010	10/19/2010	10/19/2010	10/18/2010
CAS #	Compound	Units															
<b>Semi-Volatile Organic Compounds</b>																	
83-32-9	Acenaphthene	mg/kg	0.038	< 0.021	< 0.004	< 0.004	< 0.004	< 0.004	0.113	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.021	< 0.004
208-96-8	Acenaphthylene	mg/kg	0.018	< 0.021	< 0.004	< 0.004	< 0.004	< 0.004	0.045	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.021	< 0.004
120-12-7	Anthracene	mg/kg	0.082	< 0.021	< 0.004	< 0.004	< 0.004	< 0.004	0.294	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.021	< 0.004
56-55-3	Benzo(a)anthracene	mg/kg	0.468	0.023	< 0.004	0.009	< 0.004	< 0.004	0.916	0.007	< 0.004	< 0.004	< 0.004	0.01	< 0.004	0.018	< 0.004
50-32-8	Benzo(a)pyrene	mg/kg	0.505	< 0.021	< 0.004	0.006	< 0.004	< 0.004	0.971	0.004	< 0.004	< 0.004	< 0.004	0.008	< 0.004	< 0.021	< 0.004
205-99-2	Benzo(b)fluoranthene	mg/kg	0.84	0.021	< 0.004	0.012	< 0.004	< 0.004	1.31	0.007	< 0.004	< 0.004	< 0.004	0.014	< 0.004	< 0.021	< 0.004
191-24-2	Benzo(g,h,i)perylene	mg/kg	0.187	< 0.021	< 0.004	0.006	< 0.004	< 0.004	0.686	< 0.004	< 0.004	< 0.004	< 0.004	0.007	< 0.004	< 0.021	< 0.004
207-08-9	Benzo(k)fluoranthene	mg/kg	0.281	< 0.021	< 0.004	0.004	< 0.004	< 0.004	0.433	< 0.004	< 0.004	< 0.004	< 0.004	0.004	< 0.004	< 0.021	< 0.004
218-01-9	Chrysene	mg/kg	0.62	< 0.021	< 0.004	0.007	< 0.004	< 0.004	1.16	0.005	< 0.004	< 0.004	< 0.004	0.008	0.003	< 0.021	< 0.004
53-70-3	Dibenz(a,h)anthracene	mg/kg	0.061	< 0.021	< 0.004	< 0.004	< 0.004	< 0.004	0.166	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.021	< 0.004	
206-44-0	Fluoranthene	mg/kg	1.21	0.027	< 0.004	0.017	< 0.004	< 0.004	2.63	0.013	< 0.004	< 0.004	< 0.004	0.02	< 0.004	0.02	< 0.004
86-73-7	Fluorene	mg/kg	0.032	< 0.021	< 0.004	< 0.004	< 0.004	< 0.004	0.096	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.021	< 0.004	
193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	0.192	< 0.021	< 0.004	0.005	< 0.004	< 0.004	0.547	< 0.004	< 0.004	< 0.004	< 0.004	0.006	< 0.004	< 0.021	< 0.004
91-20-3	Naphthalene	mg/kg	0.003	< 0.021	< 0.004	< 0.004	< 0.004	< 0.004	0.04	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.021	< 0.004	
85-01-8	Phenanthrene	mg/kg	0.539	< 0.021	< 0.004	0.006	< 0.004	< 0.004	1.81	0.009	< 0.004	< 0.004	< 0.004	0.008	< 0.004	< 0.021	< 0.004
129-00-0	Pyrene	mg/kg	0.951	0.019	< 0.004	0.013	< 0.004	< 0.004	1.94	0.01	< 0.004	< 0.004	< 0.004	0.015	< 0.004	0.016	< 0.004
<b>Metals</b>																	
7440-38-2	Arsenic	mg/kg	9.2	4.47	4.59	3.91	11.5	2.2	4.93	4.32	3.49	3.93	4.59	3.3	4.27	4.63	4.65
7440-39-3	Barium	mg/kg	181	105	201	107	186	54.9	426	88.8	182	132	105	64.3	83.5	80.7	128
7440-43-9	Cadmium	mg/kg	0.39	< 0.18	< 0.18	< 0.18	< 0.19	< 0.19	< 0.20	< 0.19	0.17	< 0.20	< 0.20	< 0.19	< 0.19	< 0.20	< 0.19
7440-47-3	Chromium	mg/kg	26.4	26.3	34.9	21.4	27	18.5	22.8	34.9	22.3	25.7	19	22.1	37	28.9	23.8
7439-92-1	Lead	mg/kg	163	13.6	22	10.5	16.5	7.7	120	13.1	11.5	11.6	10.4	10.4	16	16	10.9
7782-49-2	Selenium	mg/kg	< 3.92	< 3.57	< 3.57	< 3.57	< 3.85	< 3.70	< 4.00	< 3.77	< 3.64	< 4.00	< 3.92	< 3.70	< 3.77	< 3.92	< 3.77
7440-22-4	Silver	mg/kg	< 0.54	< 0.49	< 0.49	< 0.49	< 0.53	< 0.51	< 0.55	< 0.52	< 0.50	< 0.55	< 0.54	< 0.51	< 0.52	< 0.54	< 0.52
7439-97-6	Mercury	mg/kg	0.09	0.048	0.033	0.031	0.035	0.035	0.121	0.039	0.026	0.031	0.023	0.029	0.008	0.007	0.031

Table 1 - Soil Analytical Results  
 Federal Complex  
 4300 Goodfellow Boulevard  
 St. Louis, Missouri

Sample Location/Identification			B-23B	B-24A	B-24B	B-25A	B-25B	B-26A	B-26B	B-27A	B-27B	B-28A	B-28B	Default Target Level
Sample Depth (feet)			16	0-2	16	0-2	16	0-2	16	0-2	16	0-2	16	
Date Collected			10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	10/18/2010	
CAS #	Compound	Units												
<b>Semi-Volatile Organic Compounds</b>														
83-32-9	Acenaphthene	mg/kg	< 0.004	< 0.040	< 0.004	< 0.004	< 0.004	< 0.043	< 0.004	< 0.037	< 0.004	< 0.519	< 0.042	174
208-96-8	Acenaphthylene	mg/kg	< 0.004	< 0.040	< 0.004	< 0.004	< 0.043	< 0.004	< 0.037	< 0.004	< 0.519	< 0.042	175	
120-12-7	Anthracene	mg/kg	< 0.004	< 0.040	< 0.004	0.007	< 0.043	< 0.004	< 0.037	< 0.004	< 0.519	< 0.042	3060	
56-55-3	Benzo(a)anthracene	mg/kg	< 0.004	0.099	< 0.004	0.035	0.007	0.123	0.004	< 0.037	< 0.004	< 2.08	0.043	6.12
50-32-8	Benzo(a)pyrene	mg/kg	< 0.004	0.064	< 0.004	0.03	0.003	0.1	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	0.62
205-99-2	Benzo(b)fluoranthene	mg/kg	< 0.004	0.09	< 0.004	0.057	0.006	0.142	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	6.19
191-24-2	Benzo(g,h,i)perylene	mg/kg	< 0.004	0.066	< 0.004	0.023	< 0.004	0.066	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	1720
207-08-9	Benzo(k)fluoranthene	mg/kg	< 0.004	0.031	< 0.004	0.016	< 0.004	0.04	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	62
218-01-9	Chrysene	mg/kg	< 0.004	0.079	< 0.004	0.038	0.003	0.1	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	599
53-70-3	Dibenz(a,h)anthracene	mg/kg	< 0.004	< 0.040	< 0.004	0.005	< 0.004	< 0.043	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	0.62
206-44-0	Fluoranthene	mg/kg	< 0.004	0.142	< 0.004	0.078	0.011	0.303	0.004	< 0.037	< 0.004	0.555	0.076	2280
86-73-7	Fluorene	mg/kg	< 0.004	< 0.040	< 0.004	< 0.004	< 0.004	< 0.043	< 0.004	< 0.037	< 0.004	< 0.519	< 0.042	211
193-39-5	Indeno(1,2,3-cd)pyrene	mg/kg	< 0.004	0.053	< 0.004	0.02	< 0.004	0.057	< 0.004	< 0.037	< 0.004	< 2.08	< 0.042	3.77
91-20-3	Naphthalene	mg/kg	< 0.004	< 0.040	< 0.004	< 0.004	< 0.004	< 0.043	< 0.004	< 0.037	< 0.004	< 0.519	< 0.042	0.325
85-01-8	Phenanthrene	mg/kg	< 0.004	0.061	< 0.004	0.04	< 0.004	0.074	< 0.004	< 0.037	< 0.004	< 0.519	0.041	158
129-00-0	Pyrene	mg/kg	< 0.004	0.134	< 0.004	0.072	0.009	0.264	< 0.004	< 0.037	< 0.004	< 0.519	0.06	1500
<b>Metals</b>														
7440-38-2	Arsenic	mg/kg	6.85	16.9	4.04	8.75	7.04	5.57	3.06	4.52	3.33	7.48	7.81	3.89
7440-39-3	Barium	mg/kg	195	140	71.7	234	151	166	82.8	6.55	121	141	96.6	2040
7440-43-9	Cadmium	mg/kg	< 0.19	0.18	< 0.19	0.51	< 0.18	< 0.20	< 0.19	0.16	< 0.19	< 0.20	< 0.20	9.31
7440-47-3	Chromium	mg/kg	39.9	21.7	30.4	32.9	23.2	19.9	22.9	4.48	22	18.2	17.2	74600
7439-92-1	Lead	mg/kg	35.7	49	14.8	77.9	15.3	19.4	11.7	< 3.64	12.5	29.8	27	3.74
7782-49-2	Selenium	mg/kg	< 3.77	< 3.77	< 3.85	< 3.92	< 3.57	< 3.92	< 3.77	2.3	< 3.77	< 3.92	< 3.92	6.27
7440-22-4	Silver	mg/kg	< 0.52	< 0.52	< 0.53	< 0.54	< 0.49	< 0.54	< 0.52	< 0.50	< 0.52	< 0.54	0.87	16.2
7439-97-6	Mercury	mg/kg	0.009	0.06	< 0.012	0.074	0.031	0.021	0.017	0.005	0.033	0.022	0.017	2.19

October 28, 2010

Eric Schatz  
Terracon  
11600 Lilburn Park Rd.  
St. Louis, MO 63146  
TEL: (314) 692-8811  
FAX: (314) 692-8810



**RE:** 15107073

**WorkOrder:** 10100817

Dear Eric Schatz:

TEKLAB, INC received 56 samples on 10/20/2010 12:55:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

(b) (6)

Richard H. Mannz  
Project Manager  
(618)344-1004 ex 38



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

**Client:** Terracon

**Project:** 15107073

**LabOrder:** 10100817

**Report Date:** 28-Oct-10

## CASE NARRATIVE

**Cooler Receipt Temp:** 6.2 °C

**State accreditations:**

KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

### Qualifiers

**DF** - Dilution Factor

**RL** - Reporting Limit

**ND** - Not Detected at the Reporting Limit

**Surr** - Surrogate Standard added by lab

**TNTC** - Too numerous to count (> 200 CFU)

**Q** - QC criteria failed or noncompliant CCV

**NELAP** - IL ELAP and NELAP Accredited Field of Testing

**B** - Analyte detected in the associated Method Blank

**J** - Analyte detected below reporting limits

**R** - RPD outside accepted recovery limits

**S** - Spike Recovery outside accepted recovery limits

**X** - Value exceeds Maximum Contaminant Level

**#** - Unknown hydrocarbon

**IDPH** - IL Dept. of Public Health

**C** - Client requested RL below PQL

**D** - Diluted out of sample

**E** - Value above quantitation range

**H** - Holding time exceeded

**MI** - Matrix interference

**DNI** - Did not ignite

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-001  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-1A 0-2  
**Collection Date:** 10/19/2010 8:25:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.1	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.9	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		4.84	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
Barium	NELAP	0.49		161	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
Cadmium	NELAP	0.20		0.38	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
Chromium	NELAP	0.98		19.8	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
Lead	NELAP	3.92		18.9	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 1:07:56 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 12:19:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		75.8	%REC	1	10/26/2010 12:19:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		74.1	%REC	1	10/26/2010 12:19:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		89.6	%REC	1	10/26/2010 12:19:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.032	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-002  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-1B 16  
**Collection Date:** 10/19/2010 8:30:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		3.01	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
Barium	NELAP	0.47		96.1	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
Chromium	NELAP	0.94		26.4	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
Lead	NELAP	3.77		17.1	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 1:13:24 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:51:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		63.3	%REC	1	10/23/2010 1:51:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		59.9	%REC	1	10/23/2010 1:51:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		68.8	%REC	1	10/23/2010 1:51:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013	J	0.006	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-003  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-2A 0-2  
**Collection Date:** 10/19/2010 8:55:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		17.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		82.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		3.55	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
Barium	NELAP	0.50		104	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
Cadmium	NELAP	0.20	J	0.12	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
Chromium	NELAP	1.00		18.1	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
Lead	NELAP	4.00		10.7	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 1:19:17 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.005	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Chrysene	NELAP	0.004		0.006	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Fluoranthene	NELAP	0.004		0.014	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Phenanthrene	NELAP	0.004		0.004	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Pyrene	NELAP	0.004		0.010	mg/Kg-dry	1	10/23/2010 2:27:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		74.9	%REC	1	10/23/2010 2:27:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		72.6	%REC	1	10/23/2010 2:27:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		83.9	%REC	1	10/23/2010 2:27:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.028	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-004  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-2B 16  
**Collection Date:** 10/19/2010 9:05:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		15.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		84.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40	J	1.4	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
Barium	NELAP	0.48		64.5	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
Chromium	NELAP	0.96		21.6	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
Lead	NELAP	3.85		12.4	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 1:24:44 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 4:35:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		67.6	%REC	1	10/23/2010 4:35:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		67.5	%REC	1	10/23/2010 4:35:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		89.5	%REC	1	10/23/2010 4:35:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011		0.038	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-005  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-3A 0-2  
**Collection Date:** 10/19/2010 9:25:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		2.88	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
Barium	NELAP	0.47		167	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
Cadmium	NELAP	0.19	J	0.10	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
Chromium	NELAP	0.94		16.2	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
Lead	NELAP	3.77		9.61	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 1:40:47 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.006	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Fluoranthene	NELAP	0.004		0.009	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	10/24/2010 8:21:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		57.9	%REC	1	10/24/2010 8:21:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		60.9	%REC	1	10/24/2010 8:21:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		78.3	%REC	1	10/24/2010 8:21:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013		0.034	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-006  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-3B 16  
**Collection Date:** 10/19/2010 9:35:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		10.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		89.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		< 2.40	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
Barium	NELAP	0.48		21.4	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
Chromium	NELAP	0.96		21.5	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
Lead	NELAP	3.85		7.88	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 1:46:16 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:00:00 PM	MAM
Surr: 2-Fluorobiphenyl		10-131		72.1	%REC	1	10/24/2010 9:00:00 PM	MAM
Surr: Nitrobenzene-d5		10-132		94.4	%REC	1	10/24/2010 9:00:00 PM	MAM
Surr: p-Terphenyl-d14		30.6-131		74.1	%REC	1	10/24/2010 9:00:00 PM	MAM
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011		< 0.011	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-007  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-4A 0-2  
**Collection Date:** 10/19/2010 10:10:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		11.9	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		88.1	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		3.99	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
Barium	NELAP	0.47		94.6	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
Chromium	NELAP	0.94		31.1	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
Lead	NELAP	3.77		11.9	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 1:52:10 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004	J	0.003	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Pyrene	NELAP	0.004		0.004	mg/Kg-dry	1	10/22/2010 7:07:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		66.0	%REC	1	10/22/2010 7:07:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		74.4	%REC	1	10/22/2010 7:07:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		89.6	%REC	1	10/22/2010 7:07:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011		0.045	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-008  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-4B 16  
**Collection Date:** 10/19/2010 10:20:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		3.82	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
Barium	NELAP	0.50		134	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
Chromium	NELAP	1.00		29.1	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
Lead	NELAP	4.00		18.3	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 1:57:39 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Fluoranthene	NELAP	0.004		0.008	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	10/22/2010 7:45:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		66.9	%REC	1	10/22/2010 7:45:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		70.2	%REC	1	10/22/2010 7:45:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		101.7	%REC	1	10/22/2010 7:45:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.021	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-009  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-5A 0-2  
**Collection Date:** 10/19/2010 10:25:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		23.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		77.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		2.74	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
Barium	NELAP	0.49		115	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
Cadmium	NELAP	0.20	J	0.10	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
Chromium	NELAP	0.98		19.7	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
Lead	NELAP	3.92		13.7	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 2:03:20 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		0.012	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		0.007	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.013	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.009	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Chrysene	NELAP	0.004		0.007	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Fluoranthene	NELAP	0.004		0.022	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Phenanthrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Pyrene	NELAP	0.004		0.018	mg/Kg-dry	1	10/23/2010 12:49:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		65.6	%REC	1	10/23/2010 12:49:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		55.2	%REC	1	10/23/2010 12:49:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		105.0	%REC	1	10/23/2010 12:49:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013		0.047	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-010  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-5B 16  
**Collection Date:** 10/19/2010 10:35:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		3.92	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
Barium	NELAP	0.50		108	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
Chromium	NELAP	1.00		19.8	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
Lead	NELAP	4.00		16.0	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 2:08:46 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.065	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Anthracene	NELAP	0.004		0.121	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.293	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.253	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.341	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.181	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.105	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Chrysene	NELAP	0.004		0.276	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.044	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Fluoranthene	NELAP	0.004		0.869	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Fluorene	NELAP	0.004		0.061	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.162	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Naphthalene	NELAP	0.004		0.023	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Phenanthrene	NELAP	0.004		0.709	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Pyrene	NELAP	0.004		0.706	mg/Kg-dry	1	10/24/2010 9:38:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		72.8	%REC	1	10/24/2010 9:38:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		94.0	%REC	1	10/24/2010 9:38:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		80.0	%REC	1	10/24/2010 9:38:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.033	mg/Kg-dry	1	10/21/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-011  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-6A 0-2  
**Collection Date:** 10/19/2010 10:45:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		20.1	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		79.9	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.23		< 2.23	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
Barium	NELAP	0.45		87.5	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
Cadmium	NELAP	0.18		< 0.18	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
Chromium	NELAP	0.89		20.6	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
Lead	NELAP	3.57		9.98	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
Selenium	NELAP	3.57		< 3.57	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
Silver	NELAP	0.49		< 0.49	mg/Kg-dry	1	10/25/2010 2:14:13 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:18:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		46.1	%REC	1	10/24/2010 10:18:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		58.0	%REC	1	10/24/2010 10:18:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		108.1	%REC	1	10/24/2010 10:18:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.029	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-012  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-6B 16  
**Collection Date:** 10/19/2010 11:00:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		82.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		2.97	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
Barium	NELAP	0.49		118	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
Chromium	NELAP	0.98		23.7	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
Lead	NELAP	3.92		15.0	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 2:19:39 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 10:56:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		58.5	%REC	1	10/24/2010 10:56:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		84.1	%REC	1	10/24/2010 10:56:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		79.7	%REC	1	10/24/2010 10:56:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.033	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-013  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-7A 0-2  
**Collection Date:** 10/19/2010 11:50:00 AM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.31		3.39	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
Barium	NELAP	0.46		114	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
Cadmium	NELAP	0.19	J	0.12	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
Chromium	NELAP	0.93		21.6	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
Lead	NELAP	3.70		33.3	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
Selenium	NELAP	3.70		< 3.70	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
Silver	NELAP	0.51		< 0.51	mg/Kg-dry	1	10/25/2010 2:25:07 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.021		0.168	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Acenaphthylene	NELAP	0.021		0.028	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Anthracene	NELAP	0.021		0.529	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Benzo(a)anthracene	NELAP	0.021		1.04	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Benzo(a)pyrene	NELAP	0.021		0.889	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.021		1.32	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.021		0.622	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.021		0.449	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Chrysene	NELAP	0.021		1.11	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.021		0.182	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Fluoranthene	NELAP	0.021		4.17	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Fluorene	NELAP	0.021		0.144	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.021		0.631	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Naphthalene	NELAP	0.021	J	0.020	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Phenanthrene	NELAP	0.021		2.48	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Pyrene	NELAP	0.021		3.23	mg/Kg-dry	5	10/24/2010 11:35:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		63.1	%REC	5	10/24/2010 11:35:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		65.5	%REC	5	10/24/2010 11:35:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		89.3	%REC	5	10/24/2010 11:35:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.076	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-014  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-7B 16  
**Collection Date:** 10/19/2010 12:00:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		23.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		76.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.27		5.07	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
Barium	NELAP	0.45		161	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
Cadmium	NELAP	0.18	J	0.09	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
Chromium	NELAP	0.91		35.0	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
Lead	NELAP	3.64		17.7	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
Selenium	NELAP	3.64		< 3.64	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
Silver	NELAP	0.50		< 0.50	mg/Kg-dry	1	10/25/2010 2:30:35 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.022		0.028	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Acenaphthylene	NELAP	0.022		0.026	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Anthracene	NELAP	0.022		0.112	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Benzo(a)anthracene	NELAP	0.022		0.478	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Benzo(a)pyrene	NELAP	0.022		0.487	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.022		0.716	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.022		0.355	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.022		0.269	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Chrysene	NELAP	0.022		0.514	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.022		0.087	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Fluoranthene	NELAP	0.022		1.70	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Fluorene	NELAP	0.022		ND	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.022		0.300	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Naphthalene	NELAP	0.022		ND	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Phenanthrene	NELAP	0.022		0.723	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Pyrene	NELAP	0.022		1.43	mg/Kg-dry	5	10/25/2010 12:14:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		52.5	%REC	5	10/25/2010 12:14:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		75.0	%REC	5	10/25/2010 12:14:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		101.1	%REC	5	10/25/2010 12:14:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.035	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-015  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-8A 0-2  
**Collection Date:** 10/19/2010 12:15:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		5.41	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
Barium	NELAP	0.50		155	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
Chromium	NELAP	1.00		18.5	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
Lead	NELAP	4.00		15.3	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 2:47:12 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		0.013	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.014	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.009	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Chrysene	NELAP	0.004		0.010	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Fluoranthene	NELAP	0.004		0.032	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Phenanthrene	NELAP	0.004		0.016	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Pyrene	NELAP	0.004		0.029	mg/Kg-dry	1	10/23/2010 1:27:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		56.2	%REC	1	10/23/2010 1:27:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		49.2	%REC	1	10/23/2010 1:27:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		99.5	%REC	1	10/23/2010 1:27:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.035	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-016  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-8B 16  
**Collection Date:** 10/19/2010 12:25:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		4.41	mg/Kg-dry	1	10/25/2010 2:07:55 PM	JMW
Barium	NELAP	0.50		262	mg/Kg-dry	1	10/25/2010 3:26:08 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 3:26:08 AM	LAL
Chromium	NELAP	1.00		38.4	mg/Kg-dry	1	10/25/2010 3:26:08 AM	LAL
Lead	NELAP	4.00		13.1	mg/Kg-dry	1	10/25/2010 3:26:08 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 3:26:08 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 3:26:08 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Anthracene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		0.048	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		0.055	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.096	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.040	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.029	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Chrysene	NELAP	0.004		0.062	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Fluoranthene	NELAP	0.004		0.125	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.033	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Phenanthrene	NELAP	0.004		0.038	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Pyrene	NELAP	0.004		0.080	mg/Kg-dry	1	10/25/2010 12:54:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		81.2	%REC	1	10/25/2010 12:54:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		66.0	%REC	1	10/25/2010 12:54:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		61.0	%REC	1	10/25/2010 12:54:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.027	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-017  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-9A 0-2  
**Collection Date:** 10/19/2010 1:55:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		17.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		82.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		5.04	mg/Kg-dry	1	10/25/2010 2:13:45 PM	JMW
Barium	NELAP	0.48		100	mg/Kg-dry	1	10/25/2010 3:31:59 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 3:31:59 AM	LAL
Chromium	NELAP	0.96		18.1	mg/Kg-dry	1	10/25/2010 3:31:59 AM	LAL
Lead	NELAP	3.85		16.6	mg/Kg-dry	1	10/25/2010 3:31:59 AM	LAL
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 3:31:59 AM	LAL
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 3:31:59 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.010	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.008	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Anthracene	NELAP	0.004		0.027	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.087	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.091	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.137	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.063	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.043	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Chrysene	NELAP	0.004		0.115	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.015	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Fluoranthene	NELAP	0.004		0.229	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Fluorene	NELAP	0.004		0.008	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.050	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Phenanthrene	NELAP	0.004		0.138	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Pyrene	NELAP	0.004		0.191	mg/Kg-dry	1	10/24/2010 7:40:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		69.4	%REC	1	10/24/2010 7:40:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		64.9	%REC	1	10/24/2010 7:40:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		77.9	%REC	1	10/24/2010 7:40:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.029	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-018  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-9B 16  
**Collection Date:** 10/19/2010 2:00:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		82.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		4.47	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
Barium	NELAP	0.49		112	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
Cadmium	NELAP	0.20	J	0.11	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
Chromium	NELAP	0.98		19.4	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
Lead	NELAP	3.92		66.0	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 3:58:49 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Acenaphthylene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Anthracene	NELAP	0.021		0.038	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Benzo(a)anthracene	NELAP	0.021		0.180	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Benzo(a)pyrene	NELAP	0.021		0.179	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.021		0.275	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.021		0.080	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.021		0.088	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Chrysene	NELAP	0.021		0.232	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.021		0.024	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Fluoranthene	NELAP	0.021		0.423	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Fluorene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.021		0.080	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Naphthalene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Phenanthrene	NELAP	0.021		0.184	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Pyrene	NELAP	0.021		0.322	mg/Kg-dry	5	10/24/2010 8:19:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		66.6	%REC	5	10/24/2010 8:19:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		62.6	%REC	5	10/24/2010 8:19:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		76.9	%REC	5	10/24/2010 8:19:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.031	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-019  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-10A 0-2  
**Collection Date:** 10/18/2010 4:25:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		20.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		79.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.27		3.76	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
Barium	NELAP	0.45		102	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
Cadmium	NELAP	0.18		< 0.18	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
Chromium	NELAP	0.91		28.9	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
Lead	NELAP	3.64		21.2	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
Selenium	NELAP	3.64		< 3.64	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
Silver	NELAP	0.50		< 0.50	mg/Kg-dry	1	10/25/2010 4:04:15 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.008	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.010	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Chrysene	NELAP	0.004		0.007	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Phenanthrene	NELAP	0.004		0.004	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Pyrene	NELAP	0.004		0.012	mg/Kg-dry	1	10/24/2010 8:57:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		56.6	%REC	1	10/24/2010 8:57:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		65.8	%REC	1	10/24/2010 8:57:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		78.2	%REC	1	10/24/2010 8:57:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.022	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-020  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-10B 16  
**Collection Date:** 10/18/2010 4:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.23		2.71	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
Barium	NELAP	0.45		204	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
Cadmium	NELAP	0.18		0.24	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
Chromium	NELAP	0.89		34.0	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
Lead	NELAP	3.57		15.4	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
Selenium	NELAP	3.57		< 3.57	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
Silver	NELAP	0.49		< 0.49	mg/Kg-dry	1	10/25/2010 4:09:55 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/24/2010 9:35:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		62.3	%REC	1	10/24/2010 9:35:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		59.7	%REC	1	10/24/2010 9:35:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		78.6	%REC	1	10/24/2010 9:35:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.015	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-021  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-11A 0-2  
**Collection Date:** 10/18/2010 5:10:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		22.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		77.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		10.2	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
Barium	NELAP	0.50		93.6	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
Cadmium	NELAP	0.20	J	0.16	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
Chromium	NELAP	1.00		15.1	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
Lead	NELAP	4.00		16.2	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 4:15:46 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.215		4.51	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Acenaphthylene	NELAP	0.215		0.363	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Anthracene	NELAP	0.215		8.91	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Benzo(a)anthracene	NELAP	0.215		12.0	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Benzo(a)pyrene	NELAP	0.215		11.6	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.215		15.3	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.215		4.92	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.215		5.23	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Chrysene	NELAP	0.215		12.6	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.215		1.45	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Fluoranthene	NELAP	0.215		34.3	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Fluorene	NELAP	0.215		4.47	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.215		4.62	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Naphthalene	NELAP	0.215		0.855	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Phenanthrene	NELAP	0.215		29.9	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Pyrene	NELAP	0.215		27.3	mg/Kg-dry	50	10/24/2010 10:14:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		65.9	%REC	50	10/24/2010 10:14:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		62.9	%REC	50	10/24/2010 10:14:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		95.8	%REC	50	10/24/2010 10:14:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.084	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-022  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-11B 16  
**Collection Date:** 10/18/2010 5:20:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		2.98	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
Barium	NELAP	0.49		143	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
Chromium	NELAP	0.98		20.0	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
Lead	NELAP	3.92		9.37	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 4:21:22 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Acenaphthylene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Anthracene	NELAP	0.021		0.024	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Benzo(a)anthracene	NELAP	0.021		0.096	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Benzo(a)pyrene	NELAP	0.021		0.072	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.021		0.132	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.021		0.028	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.021		0.044	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Chrysene	NELAP	0.021		0.136	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Fluoranthene	NELAP	0.021		0.341	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Fluorene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.021		0.029	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Naphthalene	NELAP	0.021		ND	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Phenanthrene	NELAP	0.021		0.124	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Pyrene	NELAP	0.021		0.276	mg/Kg-dry	5	10/24/2010 10:52:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		57.1	%REC	5	10/24/2010 10:52:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		51.7	%REC	5	10/24/2010 10:52:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		79.4	%REC	5	10/24/2010 10:52:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.038	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-023  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-12A 0-2  
**Collection Date:** 10/19/2010 3:10:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		16.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		84.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		5.03	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
Barium	NELAP	0.48		124	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
Chromium	NELAP	0.96		16.5	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
Lead	NELAP	3.85		23.3	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 4:26:49 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Anthracene	NELAP	0.004		0.018	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		0.068	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		0.073	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.103	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.037	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.035	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Chrysene	NELAP	0.004		0.084	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Fluoranthene	NELAP	0.004		0.193	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Fluorene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.034	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Phenanthrene	NELAP	0.004		0.107	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Pyrene	NELAP	0.004		0.160	mg/Kg-dry	1	10/25/2010 12:09:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		48.8	%REC	1	10/25/2010 12:09:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		57.1	%REC	1	10/25/2010 12:09:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		74.3	%REC	1	10/25/2010 12:09:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.054	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-024  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-12B 16  
**Collection Date:** 10/19/2010 3:20:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		2.87	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
Barium	NELAP	0.47		107	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
Chromium	NELAP	0.94		22.5	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
Lead	NELAP	3.77		8.34	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 4:32:26 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/22/2010 8:23:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		37.2	%REC	1	10/22/2010 8:23:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		55.8	%REC	1	10/22/2010 8:23:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		78.9	%REC	1	10/22/2010 8:23:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.039	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-025  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-13A 0-2  
**Collection Date:** 10/18/2010 6:05:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		17.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		82.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		4.83	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
Barium	NELAP	0.48		149	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
Cadmium	NELAP	0.19		0.24	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
Chromium	NELAP	0.96		23.3	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
Lead	NELAP	3.85		77.7	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 4:37:53 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.041	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Acenaphthylene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Anthracene	NELAP	0.004		0.074	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		0.420	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		0.471	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.753	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.213	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.263	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Chrysene	NELAP	0.004		0.568	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.064	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Fluoranthene	NELAP	0.004		1.19	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Fluorene	NELAP	0.004		0.020	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.203	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Phenanthrene	NELAP	0.004		0.573	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Pyrene	NELAP	0.004		1.01	mg/Kg-dry	1	10/25/2010 12:48:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		49.5	%REC	1	10/25/2010 12:48:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		53.9	%REC	1	10/25/2010 12:48:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		72.8	%REC	1	10/25/2010 12:48:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.120	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-026  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-13B 16  
**Collection Date:** 10/18/2010 6:10:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		5.49	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
Barium	NELAP	0.50		154	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
Cadmium	NELAP	0.20	J	0.10	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
Chromium	NELAP	1.00		17.8	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
Lead	NELAP	4.00		19.0	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 4:43:19 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.314	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Acenaphthylene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Anthracene	NELAP	0.004		0.677	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		1.51	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		1.50	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.041		2.27	mg/Kg-dry	10	10/27/2010 9:54:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.692	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.687	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Chrysene	NELAP	0.004		1.64	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.218	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Fluoranthene	NELAP	0.041		3.93	mg/Kg-dry	10	10/27/2010 9:54:00 AM	MAV
Fluorene	NELAP	0.004		0.253	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.727	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Naphthalene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 12:59:00 PM	MAV
Phenanthrene	NELAP	0.041		2.85	mg/Kg-dry	10	10/27/2010 9:54:00 AM	MAV
Pyrene	NELAP	0.041		3.12	mg/Kg-dry	10	10/27/2010 9:54:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		56.6	%REC	1	10/25/2010 12:59:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		59.3	%REC	1	10/25/2010 12:59:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		73.4	%REC	1	10/25/2010 12:59:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.043	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-027  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-14A 0-2  
**Collection Date:** 10/18/2010 6:20:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		6.91	mg/Kg-dry	1	10/25/2010 2:47:58 PM	JMW
Barium	NELAP	0.50		201	mg/Kg-dry	1	10/25/2010 2:47:58 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 4:59:23 AM	LAL
Chromium	NELAP	1.00		18.6	mg/Kg-dry	1	10/25/2010 2:47:58 PM	JMW
Lead	NELAP	4.00		18.3	mg/Kg-dry	1	10/25/2010 2:47:58 PM	JMW
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 2:47:58 PM	JMW
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 4:59:23 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.011	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.016	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.016	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.005	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Chrysene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Fluoranthene	NELAP	0.004		0.015	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Phenanthrene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Pyrene	NELAP	0.004		0.013	mg/Kg-dry	1	10/25/2010 1:35:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		60.8	%REC	1	10/25/2010 1:35:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		59.3	%REC	1	10/25/2010 1:35:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		70.3	%REC	1	10/25/2010 1:35:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.039	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-028  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-14B 16  
**Collection Date:** 10/18/2010 6:30:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		4.93	mg/Kg-dry	1	10/25/2010 2:53:24 PM	JMW
Barium	NELAP	0.48		121	mg/Kg-dry	1	10/25/2010 2:53:24 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 5:04:50 AM	LAL
Chromium	NELAP	0.96		29.7	mg/Kg-dry	1	10/25/2010 2:53:24 PM	JMW
Lead	NELAP	3.85		11.0	mg/Kg-dry	1	10/25/2010 2:53:24 PM	JMW
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 2:53:24 PM	JMW
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 5:04:50 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:11:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		44.6	%REC	1	10/25/2010 2:11:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		55.5	%REC	1	10/25/2010 2:11:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		66.4	%REC	1	10/25/2010 2:11:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013		0.030	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-029  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-15A 0-2  
**Collection Date:** 10/19/2010 2:55:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.1	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.9	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		9.71	mg/Kg-dry	1	10/25/2010 2:59:01 PM	JMW
Barium	NELAP	0.50		139	mg/Kg-dry	1	10/25/2010 2:59:01 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 5:10:28 AM	LAL
Chromium	NELAP	1.00		18.9	mg/Kg-dry	1	10/25/2010 2:59:01 PM	JMW
Lead	NELAP	4.00		21.1	mg/Kg-dry	1	10/25/2010 2:59:01 PM	JMW
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 2:59:01 PM	JMW
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 5:10:28 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.005	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Anthracene	NELAP	0.004		0.014	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.047	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.053	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.073	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.028	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.023	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Chrysene	NELAP	0.004		0.061	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Fluoranthene	NELAP	0.004		0.113	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Fluorene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.024	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Phenanthrene	NELAP	0.004		0.049	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Pyrene	NELAP	0.004		0.104	mg/Kg-dry	1	10/25/2010 2:47:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		56.5	%REC	1	10/25/2010 2:47:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		59.1	%REC	1	10/25/2010 2:47:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		75.7	%REC	1	10/25/2010 2:47:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011		0.030	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-030  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-15B 16  
**Collection Date:** 10/19/2010 3:05:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		20.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		79.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		6.40	mg/Kg-dry	1	10/25/2010 3:04:34 PM	JMW
Barium	NELAP	0.48		188	mg/Kg-dry	1	10/25/2010 3:04:34 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 5:15:50 AM	LAL
Chromium	NELAP	0.96		22.6	mg/Kg-dry	1	10/25/2010 3:04:34 PM	JMW
Lead	NELAP	3.85		12.5	mg/Kg-dry	1	10/25/2010 3:04:34 PM	JMW
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 3:04:34 PM	JMW
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 5:15:50 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Chrysene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Fluoranthene	NELAP	0.004		0.014	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Phenanthrene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Pyrene	NELAP	0.004		0.010	mg/Kg-dry	1	10/25/2010 3:23:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		41.7	%REC	1	10/25/2010 3:23:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.5	%REC	1	10/25/2010 3:23:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		66.1	%REC	1	10/25/2010 3:23:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013		0.034	mg/Kg-dry	1	10/22/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-031  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-16A 0-2  
**Collection Date:** 10/19/2010 2:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		13.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		86.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		9.20	mg/Kg-dry	1	10/25/2010 3:10:11 PM	JMW
Barium	NELAP	0.49		181	mg/Kg-dry	1	10/25/2010 3:10:11 PM	JMW
Cadmium	NELAP	0.20		0.39	mg/Kg-dry	1	10/25/2010 5:21:16 AM	LAL
Chromium	NELAP	0.98		26.4	mg/Kg-dry	1	10/25/2010 3:10:11 PM	JMW
Lead	NELAP	3.92		163	mg/Kg-dry	1	10/25/2010 3:10:11 PM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 3:10:11 PM	JMW
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 5:21:16 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		0.038	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Acenaphthylene	NELAP	0.004		0.018	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Anthracene	NELAP	0.004		0.082	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.468	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.505	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.840	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.187	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.281	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Chrysene	NELAP	0.004		0.620	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.061	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Fluoranthene	NELAP	0.004		1.21	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Fluorene	NELAP	0.004		0.032	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.192	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Naphthalene	NELAP	0.004	J	0.003	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Phenanthrene	NELAP	0.004		0.539	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Pyrene	NELAP	0.004		0.951	mg/Kg-dry	1	10/25/2010 3:58:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		58.7	%REC	1	10/25/2010 3:58:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		56.9	%REC	1	10/25/2010 3:58:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		72.3	%REC	1	10/25/2010 3:58:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011		0.090	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-032  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-16B 16  
**Collection Date:** 10/19/2010 2:45:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.23		4.47	mg/Kg-dry	1	10/25/2010 3:15:47 PM	JMW
Barium	NELAP	0.45		105	mg/Kg-dry	1	10/25/2010 3:15:47 PM	JMW
Cadmium	NELAP	0.18		< 0.18	mg/Kg-dry	1	10/25/2010 5:26:54 AM	LAL
Chromium	NELAP	0.89		26.3	mg/Kg-dry	1	10/25/2010 3:15:47 PM	JMW
Lead	NELAP	3.57		13.6	mg/Kg-dry	1	10/25/2010 3:15:47 PM	JMW
Selenium	NELAP	3.57		< 3.57	mg/Kg-dry	1	10/25/2010 3:15:47 PM	JMW
Silver	NELAP	0.49		< 0.49	mg/Kg-dry	1	10/25/2010 5:26:54 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Acenaphthylene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Anthracene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Benzo(a)anthracene	NELAP	0.021		0.023	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Benzo(a)pyrene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.021	J	0.021	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Chrysene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Fluoranthene	NELAP	0.021		0.027	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Fluorene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Naphthalene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Phenanthrene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Pyrene	NELAP	0.021	J	0.019	mg/Kg-dry	5	10/25/2010 3:59:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		53.1	%REC	5	10/25/2010 3:59:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.8	%REC	5	10/25/2010 3:59:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		91.5	%REC	5	10/25/2010 3:59:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.048	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Elevated reporting limit due to sample composition.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-033  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-17A 0-2  
**Collection Date:** 10/19/2010 3:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.23		4.59	mg/Kg-dry	1	10/25/2010 3:21:13 PM	JMW
Barium	NELAP	0.45		201	mg/Kg-dry	1	10/25/2010 3:21:13 PM	JMW
Cadmium	NELAP	0.18		< 0.18	mg/Kg-dry	1	10/25/2010 5:32:21 AM	LAL
Chromium	NELAP	0.89		34.9	mg/Kg-dry	1	10/25/2010 3:21:13 PM	JMW
Lead	NELAP	3.57		22.0	mg/Kg-dry	1	10/25/2010 3:21:13 PM	JMW
Selenium	NELAP	3.57		< 3.57	mg/Kg-dry	1	10/25/2010 3:21:13 PM	JMW
Silver	NELAP	0.49		< 0.49	mg/Kg-dry	1	10/25/2010 5:32:21 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:07:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		49.0	%REC	1	10/25/2010 6:07:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		50.6	%REC	1	10/25/2010 6:07:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		72.5	%REC	1	10/25/2010 6:07:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.033	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-034  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-17B 16  
**Collection Date:** 10/19/2010 3:45:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.23		3.91	mg/Kg-dry	1	10/25/2010 3:38:58 PM	JMW
Barium	NELAP	0.45		107	mg/Kg-dry	1	10/25/2010 3:38:58 PM	JMW
Cadmium	NELAP	0.18		< 0.18	mg/Kg-dry	1	10/25/2010 5:38:12 AM	LAL
Chromium	NELAP	0.89		21.4	mg/Kg-dry	1	10/25/2010 3:38:58 PM	JMW
Lead	NELAP	3.57		10.5	mg/Kg-dry	1	10/25/2010 3:38:58 PM	JMW
Selenium	NELAP	3.57		< 3.57	mg/Kg-dry	1	10/25/2010 3:38:58 PM	JMW
Silver	NELAP	0.49		< 0.49	mg/Kg-dry	1	10/25/2010 5:38:12 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.009	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.012	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Chrysene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Fluoranthene	NELAP	0.004		0.017	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.005	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Phenanthrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Pyrene	NELAP	0.004		0.013	mg/Kg-dry	1	10/25/2010 6:44:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		46.1	%REC	1	10/25/2010 6:44:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		55.3	%REC	1	10/25/2010 6:44:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		77.5	%REC	1	10/25/2010 6:44:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.031	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-035  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-18A 0-2  
**Collection Date:** 10/18/2010 5:35:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		11.5	mg/Kg-dry	1	10/25/2010 4:00:39 PM	JMW
Barium	NELAP	0.48		186	mg/Kg-dry	1	10/25/2010 4:00:39 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 4:00:39 PM	JMW
Chromium	NELAP	0.96		27.0	mg/Kg-dry	1	10/25/2010 4:00:39 PM	JMW
Lead	NELAP	3.85		16.5	mg/Kg-dry	1	10/25/2010 4:00:39 PM	JMW
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 4:00:39 PM	JMW
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 6:10:37 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:21:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		39.2	%REC	1	10/25/2010 7:21:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		50.7	%REC	1	10/25/2010 7:21:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		72.9	%REC	1	10/25/2010 7:21:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013		0.035	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-036  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-18B 16  
**Collection Date:** 10/18/2010 5:50:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.31	J	2.2	mg/Kg-dry	1	10/25/2010 4:18:39 PM	JMW
Barium	NELAP	0.46		54.9	mg/Kg-dry	1	10/25/2010 4:18:39 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 4:18:39 PM	JMW
Chromium	NELAP	0.93		18.5	mg/Kg-dry	1	10/25/2010 4:18:39 PM	JMW
Lead	NELAP	3.70		7.70	mg/Kg-dry	1	10/25/2010 4:18:39 PM	JMW
Selenium	NELAP	3.70		< 3.70	mg/Kg-dry	1	10/25/2010 4:18:39 PM	JMW
Silver	NELAP	0.51		< 0.51	mg/Kg-dry	1	10/25/2010 6:28:27 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:58:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		38.2	%REC	1	10/25/2010 7:58:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		48.4	%REC	1	10/25/2010 7:58:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		69.7	%REC	1	10/25/2010 7:58:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.035	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-037  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-19A 0-2  
**Collection Date:** 10/18/2010 4:00:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		7.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		92.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		4.93	mg/Kg-dry	1	10/25/2010 4:24:06 PM	JMW
Barium	NELAP	0.50		426	mg/Kg-dry	1	10/25/2010 4:24:06 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 6:33:55 AM	LAL
Chromium	NELAP	1.00		22.8	mg/Kg-dry	1	10/25/2010 4:24:06 PM	JMW
Lead	NELAP	4.00		120	mg/Kg-dry	1	10/25/2010 4:24:06 PM	JMW
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 4:24:06 PM	JMW
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 6:33:55 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.037		0.113	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Acenaphthylene	NELAP	0.037		0.045	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Anthracene	NELAP	0.037		0.294	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Benzo(a)anthracene	NELAP	0.037		0.916	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Benzo(a)pyrene	NELAP	0.037		0.971	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.037		1.31	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.037		0.686	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.037		0.433	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Chrysene	NELAP	0.037		1.16	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.037		0.166	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Fluoranthene	NELAP	0.037		2.63	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Fluorene	NELAP	0.037		0.096	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.037		0.547	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Naphthalene	NELAP	0.037		0.040	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Phenanthrene	NELAP	0.037		1.81	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Pyrene	NELAP	0.037		1.94	mg/Kg-dry	10	10/25/2010 8:35:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		58.9	%REC	10	10/25/2010 8:35:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		49.9	%REC	10	10/25/2010 8:35:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		77.2	%REC	10	10/25/2010 8:35:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011		0.121	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to high levels of target and/or non-target analytes.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-038  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-19B 16  
**Collection Date:** 10/18/2010 4:10:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		4.32	mg/Kg-dry	1	10/25/2010 4:29:32 PM	JMW
Barium	NELAP	0.47		88.8	mg/Kg-dry	1	10/25/2010 4:29:32 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 6:39:22 AM	LAL
Chromium	NELAP	0.94		34.9	mg/Kg-dry	1	10/25/2010 4:29:32 PM	JMW
Lead	NELAP	3.77		13.1	mg/Kg-dry	1	10/25/2010 4:29:32 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 4:29:32 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 6:39:22 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Chrysene	NELAP	0.004		0.005	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Fluoranthene	NELAP	0.004		0.013	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Phenanthrene	NELAP	0.004		0.009	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Pyrene	NELAP	0.004		0.010	mg/Kg-dry	1	10/25/2010 9:12:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		40.2	%REC	1	10/25/2010 9:12:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		47.3	%REC	1	10/25/2010 9:12:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		76.1	%REC	1	10/25/2010 9:12:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.039	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-039  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-20A 0-2  
**Collection Date:** 10/19/2010 1:20:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		20.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		79.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.27		3.49	mg/Kg-dry	1	10/25/2010 4:45:30 PM	JMW
Barium	NELAP	0.45		182	mg/Kg-dry	1	10/25/2010 4:45:30 PM	JMW
Cadmium	NELAP	0.18	J	0.17	mg/Kg-dry	1	10/25/2010 6:44:50 AM	LAL
Chromium	NELAP	0.91		22.3	mg/Kg-dry	1	10/25/2010 4:45:30 PM	JMW
Lead	NELAP	3.64		11.5	mg/Kg-dry	1	10/25/2010 4:45:30 PM	JMW
Selenium	NELAP	3.64		< 3.64	mg/Kg-dry	1	10/25/2010 4:45:30 PM	JMW
Silver	NELAP	0.50		< 0.50	mg/Kg-dry	1	10/25/2010 6:44:50 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:49:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		39.4	%REC	1	10/25/2010 9:49:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		42.4	%REC	1	10/25/2010 9:49:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		69.1	%REC	1	10/25/2010 9:49:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.026	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-040  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-20B 16  
**Collection Date:** 10/19/2010 1:30:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.50		3.93	mg/Kg-dry	1	10/25/2010 4:51:22 PM	JMW
Barium	NELAP	0.50		132	mg/Kg-dry	1	10/25/2010 4:51:22 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 4:51:22 PM	JMW
Chromium	NELAP	1.00		25.7	mg/Kg-dry	1	10/25/2010 4:51:22 PM	JMW
Lead	NELAP	4.00		11.6	mg/Kg-dry	1	10/25/2010 4:51:22 PM	JMW
Selenium	NELAP	4.00		< 4.00	mg/Kg-dry	1	10/25/2010 4:51:22 PM	JMW
Silver	NELAP	0.55		< 0.55	mg/Kg-dry	1	10/25/2010 6:50:42 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:27:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		37.6	%REC	1	10/25/2010 10:27:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		46.8	%REC	1	10/25/2010 10:27:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		73.8	%REC	1	10/25/2010 10:27:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.031	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-041  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-21A 0-2  
**Collection Date:** 10/18/2010 3:15:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		4.59	mg/Kg-dry	1	10/25/2010 4:56:50 PM	JMW
Barium	NELAP	0.49		105	mg/Kg-dry	1	10/25/2010 4:56:50 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 6:56:09 AM	LAL
Chromium	NELAP	0.98		19.0	mg/Kg-dry	1	10/25/2010 4:56:50 PM	JMW
Lead	NELAP	3.92		10.4	mg/Kg-dry	1	10/25/2010 4:56:50 PM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 4:56:50 PM	JMW
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 6:56:09 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:04:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		27.8	%REC	1	10/25/2010 11:04:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		42.4	%REC	1	10/25/2010 11:04:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		72.6	%REC	1	10/25/2010 11:04:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.023	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-042  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-21B 16  
**Collection Date:** 10/18/2010 3:30:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.9	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.1	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.31		3.30	mg/Kg-dry	1	10/25/2010 5:02:18 PM	JMW
Barium	NELAP	0.46		64.3	mg/Kg-dry	1	10/25/2010 5:02:18 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 5:02:18 PM	JMW
Chromium	NELAP	0.93		22.1	mg/Kg-dry	1	10/25/2010 5:02:18 PM	JMW
Lead	NELAP	3.70		10.4	mg/Kg-dry	1	10/25/2010 5:02:18 PM	JMW
Selenium	NELAP	3.70		< 3.70	mg/Kg-dry	1	10/25/2010 5:02:18 PM	JMW
Silver	NELAP	0.51		< 0.51	mg/Kg-dry	1	10/25/2010 7:12:17 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.010	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.014	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Chrysene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Fluoranthene	NELAP	0.004		0.020	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Phenanthrene	NELAP	0.004		0.008	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Pyrene	NELAP	0.004		0.015	mg/Kg-dry	1	10/25/2010 11:42:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		40.5	%REC	1	10/25/2010 11:42:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		47.3	%REC	1	10/25/2010 11:42:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		73.1	%REC	1	10/25/2010 11:42:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.029	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-043  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-22A 0-2  
**Collection Date:** 10/19/2010 12:55:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		4.27	mg/Kg-dry	1	10/25/2010 5:07:47 PM	JMW
Barium	NELAP	0.47		83.5	mg/Kg-dry	1	10/25/2010 5:07:47 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 5:07:47 PM	JMW
Chromium	NELAP	0.94		37.0	mg/Kg-dry	1	10/25/2010 5:07:47 PM	JMW
Lead	NELAP	3.77		16.0	mg/Kg-dry	1	10/25/2010 5:07:47 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 5:07:47 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 7:17:45 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Chrysene	NELAP	0.004	J	0.003	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 6:09:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		64.6	%REC	1	10/25/2010 6:09:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		47.5	%REC	1	10/25/2010 6:09:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		71.8	%REC	1	10/25/2010 6:09:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012	J	0.008	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-044  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-22B 16  
**Collection Date:** 10/19/2010 1:05:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		4.63	mg/Kg-dry	1	10/25/2010 5:13:39 PM	JMW
Barium	NELAP	0.49		80.7	mg/Kg-dry	1	10/25/2010 5:13:39 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 5:13:39 PM	JMW
Chromium	NELAP	0.98		28.9	mg/Kg-dry	1	10/25/2010 5:13:39 PM	JMW
Lead	NELAP	3.92		16.0	mg/Kg-dry	1	10/25/2010 5:13:39 PM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 5:13:39 PM	JMW
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 7:23:37 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Acenaphthylene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Anthracene	NELAP	0.021		ND	mg/Kg-dry	5	10/27/2010 4:55:00 AM	MAV
Benzo(a)anthracene	NELAP	0.021	J	0.018	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Benzo(a)pyrene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Chrysene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Fluoranthene	NELAP	0.021	J	0.020	mg/Kg-dry	5	10/27/2010 4:55:00 AM	MAV
Fluorene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Naphthalene	NELAP	0.021		ND	mg/Kg-dry	5	10/25/2010 6:47:00 PM	MAV
Phenanthrene	NELAP	0.021		ND	mg/Kg-dry	5	10/27/2010 4:55:00 AM	MAV
Pyrene	NELAP	0.021	J	0.016	mg/Kg-dry	5	10/27/2010 4:55:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		63.4	%REC	5	10/25/2010 6:47:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		87.4	%REC	5	10/25/2010 6:47:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		86.9	%REC	5	10/27/2010 4:55:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012	J	0.007	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Elevated reporting limit due to sample composition.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-045  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-23A 0-2  
**Collection Date:** 10/18/2010 12:00:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		4.65	mg/Kg-dry	1	10/25/2010 5:19:21 PM	JMW
Barium	NELAP	0.47		128	mg/Kg-dry	1	10/25/2010 5:19:21 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 7:29:19 AM	LAL
Chromium	NELAP	0.94		23.8	mg/Kg-dry	1	10/25/2010 5:19:21 PM	JMW
Lead	NELAP	3.77		10.9	mg/Kg-dry	1	10/25/2010 5:19:21 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 5:19:21 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 7:29:19 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 7:25:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		64.4	%REC	1	10/25/2010 7:25:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		56.9	%REC	1	10/25/2010 7:25:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		78.9	%REC	1	10/25/2010 7:25:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.031	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-046  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-23B 16  
**Collection Date:** 10/18/2010 12:15:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		9.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		90.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		6.85	mg/Kg-dry	1	10/25/2010 5:25:01 PM	JMW
Barium	NELAP	0.47		195	mg/Kg-dry	1	10/25/2010 5:25:01 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 5:25:01 PM	JMW
Chromium	NELAP	0.94		39.9	mg/Kg-dry	1	10/25/2010 5:25:01 PM	JMW
Lead	NELAP	3.77		35.7	mg/Kg-dry	1	10/25/2010 5:25:01 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 5:25:01 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 7:34:58 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 8:03:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		62.6	%REC	1	10/25/2010 8:03:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		55.1	%REC	1	10/25/2010 8:03:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		79.1	%REC	1	10/25/2010 8:03:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.011	J	0.009	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-047  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-24A 0-2  
**Collection Date:** 10/18/2010 12:57:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		14.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		86.0	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		16.9	mg/Kg-dry	1	10/25/2010 5:30:55 PM	JMW
Barium	NELAP	0.47		140	mg/Kg-dry	1	10/25/2010 5:30:55 PM	JMW
Cadmium	NELAP	0.19	J	0.18	mg/Kg-dry	1	10/25/2010 7:40:51 AM	LAL
Chromium	NELAP	0.94		21.7	mg/Kg-dry	1	10/25/2010 5:30:55 PM	JMW
Lead	NELAP	3.77		49.0	mg/Kg-dry	1	10/25/2010 5:30:55 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 5:30:55 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 7:40:51 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.040		ND	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Acenaphthylene	NELAP	0.040		ND	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Anthracene	NELAP	0.040		ND	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Benzo(a)anthracene	NELAP	0.040		0.099	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Benzo(a)pyrene	NELAP	0.040		0.064	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.040		0.090	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.040		0.066	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.040	J	0.031	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Chrysene	NELAP	0.040		0.079	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.040		ND	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Fluoranthene	NELAP	0.040		0.142	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Fluorene	NELAP	0.040		ND	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.040		0.053	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Naphthalene	NELAP	0.040		ND	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Phenanthrene	NELAP	0.040		0.061	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Pyrene	NELAP	0.040		0.134	mg/Kg-dry	10	10/25/2010 8:42:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		66.0	%REC	10	10/25/2010 8:42:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		52.2	%REC	10	10/25/2010 8:42:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		70.1	%REC	10	10/25/2010 8:42:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.060	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS

Elevated reporting limit due to sample composition.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-048  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-24B 16  
**Collection Date:** 10/18/2010 1:10:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		19.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		80.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.40		4.04	mg/Kg-dry	1	10/25/2010 5:36:34 PM	JMW
Barium	NELAP	0.48		71.7	mg/Kg-dry	1	10/25/2010 5:36:34 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 5:36:34 PM	JMW
Chromium	NELAP	0.96		30.4	mg/Kg-dry	1	10/25/2010 5:36:34 PM	JMW
Lead	NELAP	3.85		14.8	mg/Kg-dry	1	10/25/2010 5:36:34 PM	JMW
Selenium	NELAP	3.85		< 3.85	mg/Kg-dry	1	10/25/2010 5:36:34 PM	JMW
Silver	NELAP	0.53		< 0.53	mg/Kg-dry	1	10/25/2010 7:46:25 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:20:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		70.6	%REC	1	10/25/2010 9:20:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		64.0	%REC	1	10/25/2010 9:20:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		103.9	%REC	1	10/25/2010 9:20:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		< 0.012	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-049  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-25A 0-2  
**Collection Date:** 10/18/2010 12:30:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		18.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		81.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		8.75	mg/Kg-dry	1	10/25/2010 5:52:48 PM	JMW
Barium	NELAP	0.49		234	mg/Kg-dry	1	10/25/2010 5:52:48 PM	JMW
Cadmium	NELAP	0.20		0.51	mg/Kg-dry	1	10/25/2010 7:52:06 AM	LAL
Chromium	NELAP	0.98		32.9	mg/Kg-dry	1	10/25/2010 5:52:48 PM	JMW
Lead	NELAP	3.92		77.9	mg/Kg-dry	1	10/25/2010 5:52:48 PM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 5:52:48 PM	JMW
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 7:52:06 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.035	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		0.030	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.057	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		0.023	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		0.016	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Chrysene	NELAP	0.004		0.038	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		0.005	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Fluoranthene	NELAP	0.004		0.078	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		0.020	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Phenanthrene	NELAP	0.004		0.040	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Pyrene	NELAP	0.004		0.072	mg/Kg-dry	1	10/25/2010 9:58:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		75.1	%REC	1	10/25/2010 9:58:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		64.3	%REC	1	10/25/2010 9:58:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		86.4	%REC	1	10/25/2010 9:58:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.074	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-050  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-25B 16  
**Collection Date:** 10/18/2010 12:40:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.23		7.04	mg/Kg-dry	1	10/25/2010 5:58:14 PM	JMW
Barium	NELAP	0.45		151	mg/Kg-dry	1	10/25/2010 5:58:14 PM	JMW
Cadmium	NELAP	0.18		< 0.18	mg/Kg-dry	1	10/25/2010 7:57:34 AM	LAL
Chromium	NELAP	0.89		23.2	mg/Kg-dry	1	10/25/2010 5:58:14 PM	JMW
Lead	NELAP	3.57		15.3	mg/Kg-dry	1	10/25/2010 5:58:14 PM	JMW
Selenium	NELAP	3.57		< 3.57	mg/Kg-dry	1	10/25/2010 5:58:14 PM	JMW
Silver	NELAP	0.49		< 0.49	mg/Kg-dry	1	10/25/2010 7:57:34 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004		0.007	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004	J	0.003	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		0.006	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Chrysene	NELAP	0.004	J	0.003	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Fluoranthene	NELAP	0.004		0.011	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Pyrene	NELAP	0.004		0.009	mg/Kg-dry	1	10/25/2010 10:36:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		76.0	%REC	1	10/25/2010 10:36:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		63.7	%REC	1	10/25/2010 10:36:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		104.8	%REC	1	10/25/2010 10:36:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.031	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-051  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-26A 0-2  
**Collection Date:** 10/18/2010 1:42:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		22.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		77.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		5.57	mg/Kg-dry	1	10/25/2010 6:04:05 PM	JMW
Barium	NELAP	0.49		166	mg/Kg-dry	1	10/25/2010 6:04:05 PM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/25/2010 8:03:27 AM	LAL
Chromium	NELAP	0.98		19.9	mg/Kg-dry	1	10/25/2010 6:04:05 PM	JMW
Lead	NELAP	3.92		19.4	mg/Kg-dry	1	10/25/2010 6:04:05 PM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/25/2010 6:04:05 PM	JMW
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/25/2010 8:03:27 AM	LAL
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.043		ND	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Acenaphthylene	NELAP	0.043		ND	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Anthracene	NELAP	0.043		ND	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Benzo(a)anthracene	NELAP	0.043		0.123	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Benzo(a)pyrene	NELAP	0.043		0.100	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.043		0.142	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.043		0.066	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.043	J	0.040	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Chrysene	NELAP	0.043		0.100	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.043		ND	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Fluoranthene	NELAP	0.043		0.303	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Fluorene	NELAP	0.043		ND	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.043		0.057	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Naphthalene	NELAP	0.043		ND	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Phenanthrene	NELAP	0.043		0.074	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Pyrene	NELAP	0.043		0.264	mg/Kg-dry	10	10/25/2010 11:14:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		63.5	%REC	10	10/25/2010 11:14:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		64.7	%REC	10	10/25/2010 11:14:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		91.7	%REC	10	10/25/2010 11:14:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.021	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Elevated reporting limit due to sample composition.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-052  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-26B 16  
**Collection Date:** 10/18/2010 1:53:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.5	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		3.06	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
Barium	NELAP	0.47		82.8	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
Chromium	NELAP	0.94		22.9	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
Lead	NELAP	3.77		11.7	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 6:09:33 PM	JMW
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Benzo(a)anthracene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Fluoranthene	NELAP	0.004	J	0.004	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/25/2010 11:53:00 PM	MAV
Surr: 2-Fluorobiphenyl		10-131		74.0	%REC	1	10/25/2010 11:53:00 PM	MAV
Surr: Nitrobenzene-d5		10-132		83.7	%REC	1	10/25/2010 11:53:00 PM	MAV
Surr: p-Terphenyl-d14		30.6-131		108.7	%REC	1	10/25/2010 11:53:00 PM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.017	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-053  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-27A 0-2  
**Collection Date:** 10/18/2010 2:02:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		9.6	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		90.4	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.27		4.52	mg/Kg-dry	1	10/25/2010 6:15:00 PM	JMW
Barium	NELAP	0.45		6.55	mg/Kg-dry	1	10/25/2010 6:15:00 PM	JMW
Cadmium	NELAP	0.18	J	0.16	mg/Kg-dry	1	10/25/2010 6:15:00 PM	JMW
Chromium	NELAP	0.91		4.48	mg/Kg-dry	1	10/25/2010 6:15:00 PM	JMW
Lead	NELAP	3.64		< 3.64	mg/Kg-dry	1	10/25/2010 6:15:00 PM	JMW
Selenium	NELAP	3.64	J	2.3	mg/Kg-dry	1	10/26/2010 12:05:01 PM	JMW
Silver	NELAP	0.50		< 0.50	mg/Kg-dry	1	10/25/2010 6:15:00 PM	JMW
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Acenaphthylene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Anthracene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Benzo(a)anthracene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Benzo(a)pyrene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Chrysene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Fluoranthene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Fluorene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Naphthalene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Phenanthrene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Pyrene	NELAP	0.037		ND	mg/Kg-dry	10	10/26/2010 12:31:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		64.6	%REC	10	10/26/2010 12:31:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		70.8	%REC	10	10/26/2010 12:31:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		104.3	%REC	10	10/26/2010 12:31:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.010	J	0.005	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Elevated reporting limit due to sample composition.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-054  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-27B 16  
**Collection Date:** 10/18/2010 2:15:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		21.7	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		78.3	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.36		3.33	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
Barium	NELAP	0.47		121	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
Cadmium	NELAP	0.19		< 0.19	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
Chromium	NELAP	0.94		22.0	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
Lead	NELAP	3.77		12.5	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
Selenium	NELAP	3.77		< 3.77	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
Silver	NELAP	0.52		< 0.52	mg/Kg-dry	1	10/25/2010 6:20:33 PM	JMW
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Acenaphthylene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Benzo(a)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Benzo(a)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Chrysene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Fluoranthene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Fluorene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Naphthalene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Phenanthrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Pyrene	NELAP	0.004		ND	mg/Kg-dry	1	10/26/2010 1:09:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		80.3	%REC	1	10/26/2010 1:09:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		77.7	%REC	1	10/26/2010 1:09:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		91.0	%REC	1	10/26/2010 1:09:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.013		0.033	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-055  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-28A 0-2  
**Collection Date:** 10/18/2010 2:45:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		2.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		97.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		7.48	mg/Kg-dry	1	10/26/2010 1:35:27 AM	JMW
Barium	NELAP	0.49		141	mg/Kg-dry	1	10/26/2010 1:35:27 AM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/26/2010 1:35:27 AM	JMW
Chromium	NELAP	0.98		18.2	mg/Kg-dry	1	10/26/2010 1:35:27 AM	JMW
Lead	NELAP	3.92		29.8	mg/Kg-dry	1	10/26/2010 11:10:20 AM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/26/2010 1:35:27 AM	JMW
Silver	NELAP	0.54		< 0.54	mg/Kg-dry	1	10/26/2010 1:35:27 AM	JMW
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.519		ND	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Acenaphthylene	NELAP	0.519		ND	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Anthracene	NELAP	0.519		ND	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Benzo(a)anthracene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Benzo(a)pyrene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Benzo(b)fluoranthene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Benzo(k)fluoranthene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Chrysene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Fluoranthene	NELAP	0.519		0.555	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Fluorene	NELAP	0.519		ND	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	2.08		ND	mg/Kg-dry	100	10/27/2010 5:33:00 AM	MAV
Naphthalene	NELAP	0.519		ND	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Phenanthrene	NELAP	0.519		ND	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Pyrene	NELAP	0.519	J	0.44	mg/Kg-dry	25	10/26/2010 1:47:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		67.9	%REC	25	10/26/2010 1:47:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		87.8	%REC	25	10/26/2010 1:47:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		89.3	%REC	25	10/26/2010 1:47:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.010		0.022	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Elevated reporting limit due to sample composition.



ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004  
FAX: 618-344-1005

## LABORATORY RESULTS

**Client:** Terracon  
**WorkOrder:** 10100817  
**Lab ID:** 10100817-056  
**Report Date:** 28-Oct-10

**Client Project:** 15107073  
**Client Sample ID:** B-28B 16  
**Collection Date:** 10/18/2010 3:00:00 PM  
**Matrix:** SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
<b><u>EPA SW846 3550C, 5035A, ASTM D2974</u></b>								
Percent Moisture		0.1		20.2	%	1	10/20/2010 2:30:00 PM	RS
<b><u>STANDARD METHODS 18TH ED. 2540 G</u></b>								
Total Solids		0.1		79.8	%	1	10/20/2010 2:30:00 PM	RS
<b><u>SW-846 3050B, 6010B, METALS BY ICP</u></b>								
Arsenic	NELAP	2.45		7.81	mg/Kg-dry	1	10/26/2010 1:41:03 AM	JMW
Barium	NELAP	0.49		96.6	mg/Kg-dry	1	10/26/2010 1:41:03 AM	JMW
Cadmium	NELAP	0.20		< 0.20	mg/Kg-dry	1	10/26/2010 1:41:03 AM	JMW
Chromium	NELAP	0.98		17.2	mg/Kg-dry	1	10/26/2010 1:41:03 AM	JMW
Lead	NELAP	3.92		27.0	mg/Kg-dry	1	10/26/2010 11:12:40 AM	JMW
Selenium	NELAP	3.92		< 3.92	mg/Kg-dry	1	10/26/2010 1:41:03 AM	JMW
Silver	NELAP	0.54		0.87	mg/Kg-dry	1	10/26/2010 1:41:03 AM	JMW
<b><u>SW-846 3550B, 8270C SIMS, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS</u></b>								
Acenaphthene	NELAP	0.042		ND	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Acenaphthylene	NELAP	0.042		ND	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Anthracene	NELAP	0.042		ND	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Benzo(a)anthracene	NELAP	0.042		0.043	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Benzo(a)pyrene	NELAP	0.042		ND	mg/Kg-dry	10	10/27/2010 6:10:00 AM	MAV
Benzo(b)fluoranthene	NELAP	0.042		ND	mg/Kg-dry	10	10/27/2010 6:10:00 AM	MAV
Benzo(g,h,i)perylene	NELAP	0.042		ND	mg/Kg-dry	10	10/27/2010 6:10:00 AM	MAV
Benzo(k)fluoranthene	NELAP	0.042		ND	mg/Kg-dry	10	10/27/2010 6:10:00 AM	MAV
Chrysene	NELAP	0.042		ND	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Dibenzo(a,h)anthracene	NELAP	0.042		ND	mg/Kg-dry	10	10/27/2010 6:10:00 AM	MAV
Fluoranthene	NELAP	0.042		0.076	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Fluorene	NELAP	0.042		ND	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Indeno(1,2,3-cd)pyrene	NELAP	0.042		ND	mg/Kg-dry	10	10/27/2010 6:10:00 AM	MAV
Naphthalene	NELAP	0.042		ND	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Phenanthrene	NELAP	0.042	J	0.041	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Pyrene	NELAP	0.042		0.060	mg/Kg-dry	10	10/26/2010 2:25:00 AM	MAV
Surr: 2-Fluorobiphenyl		10-131		71.7	%REC	10	10/26/2010 2:25:00 AM	MAV
Surr: Nitrobenzene-d5		10-132		100.0	%REC	10	10/26/2010 2:25:00 AM	MAV
Surr: p-Terphenyl-d14		30.6-131		102.2	%REC	10	10/26/2010 2:25:00 AM	MAV
<b><u>SW-846 7471A</u></b>								
Mercury	NELAP	0.012		0.017	mg/Kg-dry	1	10/25/2010	MEK

### Sample Narrative

SW-846 3550B, 8270C SIMS, Semi-Volatile Organic Compounds by GC/MS  
Elevated reporting limit due to sample composition.

**ANALYTICAL QC SUMMARY REPORT**

**Key QC concepts:**

- CCV** Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.
- DF** Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.
- DUP** Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot. (NELAC)
- ICV** Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.
- LCS** Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (NELAC) The acceptable recovery range is listed in this report.
- LCS D** Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MS** Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in this report.
- MSD** Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in this report.
- MDL** Method detection limit or limit of detection (LOD) means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.
- MB/LCB** Method blank or lab control blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (NELAC)
- PQL** Practical quantitation limit or limit of quantitation (LOQ) means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in this report.
- RL** The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.
- RPD** Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in this report.
- SPK** The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes. (NELAC)
- Surr** Surrogates are an organic compound which is similar to the analytes of interest in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples.

Qualifiers			
<b>DF</b> - Dilution Factor	<b>B</b> - Analyte detected in the associated Method Blank	<b>C</b> - Client requested RL below PQL	<b>MI</b> - Matrix interference
<b>RL</b> - Reporting Limit	<b>J</b> - Analyte detected below reporting limits	<b>D</b> - Diluted out of sample	<b>DNI</b> - Did not ignite
<b>ND</b> - Not Detected at the Reporting Limit	<b>R</b> - RPD outside accepted recovery limits	<b>IDPH</b> - IL Dept. of Public Health	<b>E</b> - Value above quantitation range
<b>Surr</b> - Surrogate Standard added by lab	<b>S</b> - Spike Recovery outside accepted recovery limits	<b>Q</b> - QC criteria failed	<b>H</b> - Holding time exceeded
<b>TNTC</b> - Too numerous to count (> 200 CFU)	<b>X</b> - Value exceeds Maximum Contaminant Level	<b>#</b> - Unknown hydrocarbon	<b>NELAP</b> - IL ELAP and NELAP Accredited

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TS\_M\_MT

Sample ID: <b>LCS-R141567</b>	SampType: <b>LCS</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767148</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	101.0	90	110				

Sample ID: <b>LCSQC</b>	SampType: <b>LCSQC</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767149</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	1.0	0.1	1.000	0	101.0	90	110				

Sample ID: <b>10100780-001ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767157</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	93.2	0.1						91.11	2.26	15	

Sample ID: <b>10100792-005BDUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767163</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	78.1	0.1						77.66	0.527	15	

Sample ID: <b>10100794-001ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767166</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	83.5	0.1						83.23	0.276	15	

Sample ID: <b>10100798-004ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767173</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TS\_M\_MT

Sample ID: <b>10100798-004ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767173</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	90.2	0.1						89.88	0.378	15	

Sample ID: <b>10100798-005ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767175</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	91.0	0.1						92.79	1.90	15	

Sample ID: <b>10100810-003ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767194</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	93.7	0.1						94.16	0.447	15	

Sample ID: <b>10100817-003ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>B-2A 0-2DUP</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767201</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	82.4	0.1						82.49	0.170	15	

Sample ID: <b>10100817-041ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>B-21A 0-2DUP</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767240</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	80.9	0.1						81.56	0.775	15	

Sample ID: <b>10100817-052ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>B-26B 16DUP</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767252</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: I\_TS\_M\_MT

Sample ID: <b>10100817-052ADUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>B-26B 16DUP</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767252</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	78.7	0.1						78.47	0.331	15	

Sample ID: <b>10100831-004BDUP</b>	SampType: <b>DUP</b>	Units: %	Prep Date:	RunNo: <b>141567</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R141567</b>		Analysis Date: <b>10/20/2010</b>	SeqNo: <b>2767261</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Solids	82.4	0.1						83.11	0.846	15	

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_HG\_SOLID

Sample ID: <b>MB-63864</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2767997</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	< 0.010	0.010	0.01000	0	0	-100	100				
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Sample ID: <b>LCS-63864</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2767998</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.260	0.010	0.2500	0	104.0	85	115				
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Sample ID: <b>10100792-005AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2768009</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.364	0.013	0.3179	0.04833	99.2	75	125				
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Sample ID: <b>10100792-005AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2768010</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.375	0.013	0.3179	0.04833	102.6	75	125	0.3637	2.93	15	
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Sample ID: <b>10100794-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2768013</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.320	0.011	0.2861	0.03433	100.0	75	125				
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Sample ID: <b>10100794-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2768014</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual



Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_HG\_SOLID

Sample ID: <b>10100794-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141596</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63864</b>	<b>SOP 3063</b>	Analysis Date: <b>10/21/2010</b>	SeqNo: <b>2768014</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.317	0.011	0.2861	0.03433	98.8	75	125	0.3204	1.08	15	

Sample ID: <b>MB-63899</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769515</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.010	0.010	0.01000	0	0	-100	100				

Sample ID: <b>LCS-63899</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769516</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.260	0.010	0.2500	0	104.2	85	115				

Sample ID: <b>10100817-024BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>B-12B 16MS</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769534</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.341	0.012	0.3004	0.03905	100.6	75	125				

Sample ID: <b>10100817-024BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>B-12B 16MSD</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769540</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.333	0.012	0.3004	0.03905	98.0	75	125	0.3412	2.32	15	

Sample ID: <b>10100817-028BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>B-14B 16MS</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769545</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_HG\_SOLID

Sample ID: <b>10100817-028BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>B-14B 16MS</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769545</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.352	0.013	0.3143	0.03017	102.4	75	125				
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Sample ID: <b>10100817-028BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141652</b>							
Client ID: <b>B-14B 16MSD</b>	Batch ID: <b>63899</b>	<b>SOP 3063</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2769546</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.344	0.013	0.3143	0.03017	99.8	75	125	0.3520	2.35	15	
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Sample ID: <b>MB-63936</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771919</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	< 0.010	0.010	0.01000	0	0	-100	100				
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Sample ID: <b>LCS-63936</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771920</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.241	0.010	0.2500	0	96.4	85	115				
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Sample ID: <b>10100817-045BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>B-23A 0-2MS</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771938</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury	0.318	0.012	0.3003	0.03123	95.6	75	125				
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Sample ID: <b>10100817-045BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>B-23A 0-2MSD</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771939</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_HG\_SOLID

Sample ID: <b>10100817-045BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>B-23A 0-2MSD</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771939</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.309	0.012	0.3003	0.03123	92.4	75	125	0.3183	3.07	15	

Sample ID: <b>10100817-049BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>B-25A 0-2MS</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771946</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.358	0.012	0.3035	0.07405	93.4	75	125				

Sample ID: <b>10100817-049BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>B-25A 0-2MSD</b>	Batch ID: <b>63936</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771947</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.372	0.012	0.3035	0.07405	98.2	75	125	0.3575	3.99	15	

Sample ID: <b>MB-63937</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771949</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.010	0.010	0.01000	0	0	-100	100				

Sample ID: <b>LCS-63937</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771950</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.238	0.010	0.2500	0	95.4	85	115				

Sample ID: <b>10100899-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771960</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_HG\_SOLID

Sample ID: <b>10100899-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771960</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.221	0.010	0.2396	0	92.4	75	125				H

Sample ID: <b>10100899-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771961</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.222	0.010	0.2396	0	92.8	75	125	0.2214	0.432	15	H

Sample ID: <b>10100915-005AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771969</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.357	0.013	0.3247	0.03702	98.6	75	125				

Sample ID: <b>10100915-005AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/25/2010</b>	RunNo: <b>141728</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63937</b>	<b>SOP 3063</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771970</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.351	0.013	0.3247	0.03702	96.6	75	125	0.3572	1.83	15	

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>MB-63894</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63894</b>	<b>SOP 3032</b>				Analysis Date: <b>10/24/2010</b>	SeqNo: <b>2770927</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Barium	< 0.50	0.50	0.5000	0	0	-100	100				
Cadmium	< 0.20	0.20	0.2000	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				
Selenium	< 4.00	4.00	4.000	0	0	-100	100				
Silver	< 0.55	0.55	0.5500	0	0	-100	100				

Sample ID: <b>LCS-63894</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63894</b>	<b>SOP 3032</b>				Analysis Date: <b>10/24/2010</b>	SeqNo: <b>2770928</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	200	2.50	200.0	0	99.8	85	115				
Barium	186	0.50	200.0	0	93.2	85	115				
Cadmium	4.84	0.20	5.000	0	96.8	85	115				
Chromium	20.0	1.00	20.00	0	100.2	85	115				
Lead	48.5	4.00	50.00	0	97.0	85	115				
Selenium	192	4.00	200.0	0	95.8	85	115				
Silver	5.09	0.55	5.000	0	101.8	85	115				

Sample ID: <b>10100840-032AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63894</b>	<b>SOP 3032</b>				Analysis Date: <b>10/24/2010</b>	SeqNo: <b>2770931</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	249	20.0	5.000	245.0	80.0	75	125				
Lead	3740	400	50.00	3647	178.0	75	125				S

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100840-032AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63894</b>	<b>SOP 3032</b>	Analysis Date: <b>10/24/2010</b>	SeqNo: <b>2770932</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	253	20.0	5.000	245.0	160.0	75	125	249.0	1.59	20	S
Lead	3890	400	50.00	3647	480.0	75	125	3736	3.96	20	S

Sample ID: <b>10100798-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63894</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770950</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	51.0	3.92	49.02	4.961	93.8	75	125				

Sample ID: <b>10100798-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63894</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770951</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	49.4	3.92	49.02	4.961	90.6	75	125	50.95	3.19	20	

Sample ID: <b>MB-63901</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770973</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Barium	< 0.50	0.50	0.5000	0	0	-100	100				
Cadmium	< 0.20	0.20	0.2000	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				
Selenium	< 4.00	4.00	4.000	0	0	-100	100				
Silver	< 0.55	0.55	0.5500	0	0	-100	100				



Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>LCS-63901</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770974</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	196	2.50	200.0	0	97.8	85	115				
Barium	181	0.50	200.0	0	90.5	85	115				
Cadmium	4.72	0.20	5.000	0	94.4	85	115				
Chromium	19.6	1.00	20.00	0	97.9	85	115				
Lead	46.4	4.00	50.00	0	92.9	85	115				
Selenium	189	4.00	200.0	0	94.4	85	115				
Silver	5.25	0.55	5.000	0	105.0	85	115				

Sample ID: <b>10100804-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770977</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	4.21	0.51	4.630	0	91.0	75	125				
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Sample ID: <b>10100804-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770978</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	4.44	0.51	4.630	0	96.0	75	125	4.213	5.35	20	
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Sample ID: <b>10100817-017BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>B-9A 0-2MS</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770981</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	271	0.48	192.3	100.2	88.8	75	125				
Cadmium	4.48	0.19	4.808	0	93.2	75	125				
Chromium	40.0	0.96	19.23	18.13	113.5	75	125				
Lead	61.6	3.85	48.08	16.62	93.5	75	125				
Selenium	183	3.85	192.3	0	95.0	75	125				
Silver	5.08	0.53	4.808	0	105.6	75	125				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100817-017BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>B-9A 0-2MSD</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2770984</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Barium	256	0.48	192.3	100.2	80.8	75	125	271.0	5.84	20	
Cadmium	4.39	0.19	4.808	0	91.4	75	125	4.481	1.95	20	
Chromium	36.2	0.96	19.23	18.13	94.2	75	125	39.96	9.74	20	
Lead	57.9	3.85	48.08	16.62	85.8	75	125	61.59	6.25	20	
Selenium	180	3.85	192.3	0	93.4	75	125	182.6	1.65	20	
Silver	4.72	0.53	4.808	0	98.2	75	125	5.077	7.26	20	

Sample ID: <b>MB-63902</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771004</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	< 0.20	0.20	0.2000	0	0	-100	100				
Silver	< 0.55	0.55	0.5500	0	0	-100	100				

Sample ID: <b>LCS-63902</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771005</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Cadmium	4.63	0.20	5.000	0	92.6	85	115				
Silver	4.93	0.55	5.000	0	98.6	85	115				

Sample ID: <b>10100817-035BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>				
Client ID: <b>B-18A 0-2MS</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>				Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771010</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Silver	4.72	0.53	4.808	0	98.2	75	125				
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Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100817-035BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141684</b>							
Client ID: <b>B-18A 0-2MSD</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771011</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	4.65	0.53	4.808	0	96.8	75	125	4.721	1.44	20	

Sample ID: <b>MB-63915</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771835</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	< 0.20	0.20	0.2000	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: <b>LCS-63915</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771836</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	4.56	0.20	5.000	0	91.2	85	115				
Chromium	19.3	1.00	20.00	0	96.5	85	115				
Lead	51.7	4.00	50.00	0	103.3	85	115				

Sample ID: <b>10100685-017AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771839</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	12.3	0.20	5.000	8.060	85.6	75	125				
Lead	97.5	4.00	50.00	53.08	88.8	75	125				

Sample ID: <b>10100685-017AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771840</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	13.2	0.20	5.000	8.060	101.8	75	125	12.34	6.36	20	

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100685-017AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771840</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	95.4	4.00	50.00	53.08	84.6	75	125	97.48	2.17	20	

Sample ID: <b>10100948-012AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771985</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	25.6	1.00	20.00	6.930	93.2	75	125				
Lead	57.1	4.00	50.00	15.76	82.7	75	125				

Sample ID: <b>10100948-012AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141705</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771986</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	24.1	1.00	20.00	6.930	85.7	75	125	25.57	6.09	20	
Lead	59.2	4.00	50.00	15.76	86.9	75	125	57.09	3.65	20	

Sample ID: <b>10100804-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772159</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	361	0.46	185.2	222.6	74.6	75	125				S

Sample ID: <b>10100804-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772160</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	355	0.46	185.2	222.6	71.3	75	125	360.7	1.71	20	S

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100817-017BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>B-9A 0-2MS</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772167</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	193	2.40	192.3	5.038	97.5	75	125				
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Sample ID: <b>10100817-017BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>B-9A 0-2MSD</b>	Batch ID: <b>63901</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772168</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	192	2.40	192.3	5.038	97.4	75	125	192.6	0.0999	20	
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Sample ID: <b>MB-63902</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772336</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Barium	< 0.50	0.50	0.5000	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				
Selenium	< 4.00	4.00	4.000	0	0	-100	100				

Sample ID: <b>LCS-63902</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772337</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	199	2.50	200.0	0	99.3	85	115				
Barium	202	0.50	200.0	0	100.8	85	115				
Chromium	21.2	1.00	20.00	0	106.2	85	115				
Lead	53.1	4.00	50.00	0	106.2	85	115				
Selenium	205	4.00	200.0	0	102.4	85	115				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100817-035BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>B-18A 0-2MS</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772340</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	196	2.40	192.3	11.50	95.8	75	125				
Barium	373	0.48	192.3	185.6	97.6	75	125				
Cadmium	4.35	0.19	4.808	0	90.4	75	125				
Chromium	49.4	0.96	19.23	26.98	116.5	75	125				
Lead	63.7	3.85	48.08	16.55	98.1	75	125				
Selenium	187	3.85	192.3	0	97.1	75	125				

Sample ID: <b>10100817-035BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>B-18A 0-2MSD</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772341</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	193	2.40	192.3	11.50	94.5	75	125	195.8	1.33	20	
Barium	359	0.48	192.3	185.6	90.3	75	125	373.2	3.81	20	
Cadmium	4.23	0.19	4.808	0	88.0	75	125	4.346	2.69	20	
Chromium	48.5	0.96	19.23	26.98	111.8	75	125	49.38	1.85	20	
Lead	60.9	3.85	48.08	16.55	92.2	75	125	63.71	4.55	20	
Selenium	184	3.85	192.3	0	95.8	75	125	186.6	1.35	20	

Sample ID: <b>10100817-054BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>B-27B 16MS</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772365</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	189	2.36	188.7	3.330	98.3	75	125				
Barium	301	0.47	188.7	121.3	95.0	75	125				
Cadmium	4.39	0.19	4.717	0	93.0	75	125				
Chromium	42.7	0.94	18.87	21.99	109.5	75	125				
Lead	60.2	3.77	47.17	12.55	101.1	75	125				
Selenium	193	3.77	188.7	0	102.4	75	125				
Silver	5.04	0.52	4.717	0	106.8	75	125				



Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>10100817-054BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>B-27B 16MSD</b>	Batch ID: <b>63902</b>	<b>SOP 3032</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2772366</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	188	2.36	188.7	3.330	98.1	75	125	188.8	0.150	20	
Barium	263	0.47	188.7	121.3	75.2	75	125	300.6	13.3	20	
Cadmium	4.34	0.19	4.717	0	92.0	75	125	4.387	1.08	20	
Chromium	42.5	0.94	18.87	21.99	108.9	75	125	42.65	0.266	20	
Lead	59.0	3.77	47.17	12.55	98.4	75	125	60.23	2.11	20	
Selenium	193	3.77	188.7	0	102.0	75	125	193.3	0.391	20	
Silver	4.96	0.52	4.717	0	105.2	75	125	5.038	1.51	20	

Sample ID: <b>MB-63915</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/26/2010</b>	SeqNo: <b>2772452</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	< 2.50	2.50	2.500	0	0	-100	100				
Barium	< 0.50	0.50	0.5000	0	0	-100	100				
Cadmium	< 0.20	0.20	0.2000	0	0	-100	100				
Chromium	< 1.00	1.00	1.000	0	0	-100	100				
Lead	< 4.00	4.00	4.000	0	0	-100	100				
Selenium	< 4.00	4.00	4.000	0	0	-100	100				
Silver	< 0.55	0.55	0.5500	0	0	-100	100				

Sample ID: <b>LCS-63915</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/26/2010</b>	SeqNo: <b>2772453</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	201	2.50	200.0	0	100.5	85	115				
Barium	190	0.50	200.0	0	95.2	85	115				
Cadmium	5.07	0.20	5.000	0	101.4	85	115				
Chromium	20.4	1.00	20.00	0	102.0	85	115				
Lead	54.0	4.00	50.00	0	107.9	85	115				
Selenium	213	4.00	200.0	0	106.4	85	115				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: M\_SOLIDS\_ICP

Sample ID: <b>LCS-63915</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/23/2010</b>	RunNo: <b>141714</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63915</b>	<b>SOP 3032</b>	Analysis Date: <b>10/26/2010</b>	SeqNo: <b>2772453</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	4.94	0.55	5.000	0	98.8	85	115				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-63880</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141679</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63880</b>	<b>SW3550B</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2770641</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.093		0.1670		55.4	17.5	123				
Surr: Nitrobenzene-d5	0.079		0.1670		47.1	35	105				
Surr: p-Terphenyl-d14	0.132		0.1670		79.2	53.6	122				

Sample ID: <b>LCS-63880</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141679</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63880</b>	<b>SW3550B</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2770642</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.125	0.003	0.1670	0	74.6	56.3	115				
Acenaphthylene	0.137	0.003	0.1670	0	81.9	60.3	143				
Anthracene	0.132	0.003	0.1670	0	78.9	52.1	109				
Benzo(a)anthracene	0.122	0.003	0.1670	0	73.4	52.8	112				
Benzo(a)pyrene	0.115	0.003	0.1670	0	68.7	40.8	127				
Benzo(b)fluoranthene	0.124	0.003	0.1670	0	74.5	50.1	150				
Benzo(g,h,i)perylene	0.170	0.003	0.1670	0	101.9	52.8	145				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>LCS-63880</b>		SampType: <b>LCS</b>		Units: <b>mg/Kg</b>		Prep Date: <b>10/21/2010</b>			RunNo: <b>141679</b>		
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>63880</b>		<b>SW3550B</b>		Analysis Date: <b>10/22/2010</b>			SeqNo: <b>2770642</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.134	0.003	0.1670	0	80.2	52	153				
Chrysene	0.132	0.003	0.1670	0	78.9	60.8	128				
Dibenzo(a,h)anthracene	0.156	0.003	0.1670	0	93.4	54.9	150				
Fluoranthene	0.166	0.003	0.1670	0	99.7	58.7	125				
Fluorene	0.128	0.003	0.1670	0	76.9	57.8	125				
Indeno(1,2,3-cd)pyrene	0.157	0.003	0.1670	0	94.1	52	147				
Naphthalene	0.103	0.003	0.1670	0	61.8	54.8	113				
Phenanthrene	0.138	0.003	0.1670	0	82.5	60.4	121				
Pyrene	0.174	0.003	0.1670	0	104.4	57.9	129				
Surr: 2-Fluorobiphenyl	0.107		0.1670		64.0	35.3	113				
Surr: Nitrobenzene-d5	0.076		0.1670		45.5	33.9	108				
Surr: p-Terphenyl-d14	0.185		0.1670		110.8	58.4	122				

Sample ID: <b>10100817-024AMS</b>		SampType: <b>MS</b>		Units: <b>mg/Kg-dry</b>		Prep Date: <b>10/21/2010</b>			RunNo: <b>141679</b>		
Client ID: <b>B-12B 16MS</b>		Batch ID: <b>63880</b>		<b>SW3550B</b>		Analysis Date: <b>10/22/2010</b>			SeqNo: <b>2770646</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.139	0.004	0.2073	0	67.0	36	135				
Acenaphthylene	0.138	0.004	0.2073	0	66.5	17.2	167				
Anthracene	0.133	0.004	0.2073	0	64.3	39.3	124				
Benzo(a)anthracene	0.136	0.004	0.2073	0	65.8	10	183				
Benzo(a)pyrene	0.132	0.004	0.2073	0	63.6	10	204				
Benzo(b)fluoranthene	0.148	0.004	0.2073	0	71.6	10.6	178				
Benzo(g,h,i)perylene	0.183	0.004	0.2073	0	88.1	10	168				
Benzo(k)fluoranthene	0.136	0.004	0.2073	0	65.6	27.6	181				
Chrysene	0.147	0.004	0.2073	0	70.9	10	176				
Dibenzo(a,h)anthracene	0.155	0.004	0.2073	0	74.9	12.2	156				
Fluoranthene	0.178	0.004	0.2073	0	85.9	10	227				
Fluorene	0.137	0.004	0.2073	0	66.2	35.2	148				
Indeno(1,2,3-cd)pyrene	0.147	0.004	0.2073	0	71.0	10	164				
Naphthalene	0.114	0.004	0.2073	0	54.8	14.7	128				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>10100817-024AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141679</b>							
Client ID: <b>B-12B 16MS</b>	Batch ID: <b>63880</b>	<b>SW3550B</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2770646</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.143	0.004	0.2073	0	68.9	32.8	143				
Pyrene	0.179	0.004	0.2073	0	86.2	10	180				
Surr: 2-Fluorobiphenyl	0.104		0.2073		50.3	10	131				
Surr: Nitrobenzene-d5	0.105		0.2073		50.8	10	132				
Surr: p-Terphenyl-d14	0.180		0.2073		86.9	30.6	131				

Sample ID: <b>10100817-024AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141679</b>							
Client ID: <b>B-12B 16MSD</b>	Batch ID: <b>63880</b>	<b>SW3550B</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2770647</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.163	0.004	0.2060	0	79.3	36	135	0.1390	16.2	49.7	
Acenaphthylene	0.179	0.004	0.2060	0	86.7	17.2	167	0.1378	25.8	33.3	
Anthracene	0.163	0.004	0.2060	0	79.1	39.3	124	0.1332	20.2	51.1	
Benzo(a)anthracene	0.155	0.004	0.2060	0	75.3	10	183	0.1364	12.9	40.6	
Benzo(a)pyrene	0.153	0.004	0.2060	0	74.2	10	204	0.1319	14.7	56.4	
Benzo(b)fluoranthene	0.198	0.004	0.2060	0	96.2	10.6	178	0.1484	28.7	49.7	
Benzo(g,h,i)perylene	0.212	0.004	0.2060	0	103.0	10	168	0.1827	14.9	36.5	
Benzo(k)fluoranthene	0.189	0.004	0.2060	0	91.6	27.6	181	0.1360	32.4	42.6	
Chrysene	0.165	0.004	0.2060	0	80.0	10	176	0.1470	11.4	45.1	
Dibenzo(a,h)anthracene	0.160	0.004	0.2060	0	77.8	12.2	156	0.1552	3.22	39.9	
Fluoranthene	0.195	0.004	0.2060	0	94.5	10	227	0.1780	8.90	66.2	
Fluorene	0.164	0.004	0.2060	0	79.7	35.2	148	0.1372	18.0	65.6	
Indeno(1,2,3-cd)pyrene	0.160	0.004	0.2060	0	77.4	10	164	0.1472	8.06	36.5	
Naphthalene	0.141	0.004	0.2060	0	68.5	14.7	128	0.1136	21.6	39.6	
Phenanthrene	0.170	0.004	0.2060	0	82.6	32.8	143	0.1429	17.5	35.4	
Pyrene	0.193	0.004	0.2060	0	93.8	10	180	0.1787	7.79	60.1	
Surr: 2-Fluorobiphenyl	0.080		0.2060		38.9	10	131		0	40	
Surr: Nitrobenzene-d5	0.106		0.2060		51.4	10	132		0	40	
Surr: p-Terphenyl-d14	0.187		0.2060		90.5	30.6	131		0	40	

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-63881</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141687</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63881</b>	<b>SW3550B</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2771120</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.114		0.1670		68.5	17.5	123				
Surr: Nitrobenzene-d5	0.111		0.1670		66.5	35	105				
Surr: p-Terphenyl-d14	0.135		0.1670		80.9	53.6	122				

Sample ID: <b>LCS-63881</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141687</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63881</b>	<b>SW3550B</b>	Analysis Date: <b>10/22/2010</b>	SeqNo: <b>2771121</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.115	0.003	0.1670	0	69.0	56.3	115				
Acenaphthylene	0.108	0.003	0.1670	0	64.7	60.3	143				
Anthracene	0.098	0.003	0.1670	0	58.6	52.1	109				
Benzo(a)anthracene	0.104	0.003	0.1670	0	62.2	52.8	112				
Benzo(a)pyrene	0.105	0.003	0.1670	0	62.8	40.8	127				
Benzo(b)fluoranthene	0.117	0.003	0.1670	0	70.0	50.1	150				
Benzo(g,h,i)perylene	0.120	0.003	0.1670	0	71.8	52.8	145				



Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>LCS-63881</b>		SampType: <b>LCS</b>		Units: <b>mg/Kg</b>		Prep Date: <b>10/21/2010</b>			RunNo: <b>141687</b>		
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>63881</b>		<b>SW3550B</b>		Analysis Date: <b>10/22/2010</b>			SeqNo: <b>2771121</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.117	0.003	0.1670	0	70.0	52	153				
Chrysene	0.118	0.003	0.1670	0	70.7	60.8	128				
Dibenzo(a,h)anthracene	0.125	0.003	0.1670	0	75.0	54.9	150				
Fluoranthene	0.112	0.003	0.1670	0	66.8	58.7	125				
Fluorene	0.109	0.003	0.1670	0	65.0	57.8	125				
Indeno(1,2,3-cd)pyrene	0.123	0.003	0.1670	0	73.4	52	147				
Naphthalene	0.107	0.003	0.1670	0	63.8	54.8	113				
Phenanthrene	0.110	0.003	0.1670	0	65.8	60.4	121				
Pyrene	0.112	0.003	0.1670	0	67.2	57.9	129				
Surr: 2-Fluorobiphenyl	0.107		0.1670		64.2	35.3	113				
Surr: Nitrobenzene-d5	0.101		0.1670		60.7	33.9	108				
Surr: p-Terphenyl-d14	0.121		0.1670		72.4	58.4	122				

Sample ID: <b>MB-63879</b>		SampType: <b>MBLK</b>		Units: <b>mg/Kg</b>		Prep Date: <b>10/21/2010</b>			RunNo: <b>141687</b>		
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>63879</b>		<b>SW3550B</b>		Analysis Date: <b>10/23/2010</b>			SeqNo: <b>2771139</b>		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-63879</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141687</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63879</b>	<b>SW3550B</b>	Analysis Date: <b>10/23/2010</b>	SeqNo: <b>2771139</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.118		0.1670		70.7	17.5	123				
Surr: Nitrobenzene-d5	0.110		0.1670		66.0	35	105				
Surr: p-Terphenyl-d14	0.137		0.1670		82.0	53.6	122				

Sample ID: <b>LCS-63879</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141687</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63879</b>	<b>SW3550B</b>	Analysis Date: <b>10/23/2010</b>	SeqNo: <b>2771140</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.134	0.003	0.1670	0	80.1	56.3	115				
Acenaphthylene	0.138	0.003	0.1670	0	82.8	60.3	143				
Anthracene	0.117	0.003	0.1670	0	70.2	52.1	109				
Benzo(a)anthracene	0.119	0.003	0.1670	0	71.2	52.8	112				
Benzo(a)pyrene	0.120	0.003	0.1670	0	71.6	40.8	127				
Benzo(b)fluoranthene	0.139	0.003	0.1670	0	83.5	50.1	150				
Benzo(g,h,i)perylene	0.136	0.003	0.1670	0	81.5	52.8	145				
Benzo(k)fluoranthene	0.132	0.003	0.1670	0	79.2	52	153				
Chrysene	0.142	0.003	0.1670	0	85.3	60.8	128				
Dibenzo(a,h)anthracene	0.136	0.003	0.1670	0	81.5	54.9	150				
Fluoranthene	0.135	0.003	0.1670	0	80.9	58.7	125				
Fluorene	0.135	0.003	0.1670	0	81.0	57.8	125				
Indeno(1,2,3-cd)pyrene	0.135	0.003	0.1670	0	80.6	52	147				
Naphthalene	0.109	0.003	0.1670	0	65.2	54.8	113				
Phenanthrene	0.132	0.003	0.1670	0	79.3	60.4	121				
Pyrene	0.140	0.003	0.1670	0	84.1	57.9	129				
Surr: 2-Fluorobiphenyl	0.109		0.1670		65.5	35.3	113				
Surr: Nitrobenzene-d5	0.083		0.1670		49.6	33.9	108				
Surr: p-Terphenyl-d14	0.150		0.1670		89.9	58.4	122				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 10100794-002AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 10/21/2010		RunNo: 141687			
Client ID: ZZZZZZ		Batch ID: 63881		SW3550B		Analysis Date: 10/23/2010		SeqNo: 2771150			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.141	0.004	0.2008	0	70.1	36	135				
Acenaphthylene	0.146	0.004	0.2008	0	72.9	17.2	167				
Anthracene	0.122	0.004	0.2008	0	60.7	39.3	124				
Benzo(a)anthracene	0.119	0.004	0.2008	0	59.3	10	183				
Benzo(a)pyrene	0.121	0.004	0.2008	0	60.0	10	204				
Benzo(b)fluoranthene	0.132	0.004	0.2008	0	65.8	10.6	178				
Benzo(g,h,i)perylene	0.136	0.004	0.2008	0	67.5	10	168				
Benzo(k)fluoranthene	0.143	0.004	0.2008	0	71.4	27.6	181				
Chrysene	0.135	0.004	0.2008	0	67.4	10	176				
Dibenzo(a,h)anthracene	0.134	0.004	0.2008	0	66.8	12.2	156				
Fluoranthene	0.134	0.004	0.2008	0	66.7	10	227				
Fluorene	0.144	0.004	0.2008	0	71.5	35.2	148				
Indeno(1,2,3-cd)pyrene	0.132	0.004	0.2008	0	65.9	10	164				
Naphthalene	0.140	0.004	0.2008	0	69.5	14.7	128				
Phenanthrene	0.138	0.004	0.2008	0	68.8	32.8	143				
Pyrene	0.136	0.004	0.2008	0	67.9	10	180				
Surr: 2-Fluorobiphenyl	0.120		0.2008		59.6	10	131				
Surr: Nitrobenzene-d5	0.109		0.2008		54.4	10	132				
Surr: p-Terphenyl-d14	0.138		0.2008		68.5	30.6	131				

Sample ID: 10100794-002AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 10/21/2010		RunNo: 141687			
Client ID: ZZZZZZ		Batch ID: 63881		SW3550B		Analysis Date: 10/23/2010		SeqNo: 2771151			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.129	0.004	0.1994	0	64.8	36	135	0.1408	8.54	49.7	
Acenaphthylene	0.141	0.004	0.1994	0	70.7	17.2	167	0.1464	3.79	33.3	
Anthracene	0.130	0.004	0.1994	0	65.0	39.3	124	0.1219	6.19	51.1	
Benzo(a)anthracene	0.120	0.004	0.1994	0	59.9	10	183	0.1191	0.366	40.6	
Benzo(a)pyrene	0.125	0.004	0.1994	0	62.6	10	204	0.1206	3.53	56.4	
Benzo(b)fluoranthene	0.138	0.004	0.1994	0	69.3	10.6	178	0.1321	4.47	49.7	
Benzo(g,h,i)perylene	0.135	0.004	0.1994	0	67.9	10	168	0.1355	0.0820	36.5	

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: 10100794-002AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 10/21/2010		RunNo: 141687			
Client ID: ZZZZZZ		Batch ID: 63881		SW3550B		Analysis Date: 10/23/2010		SeqNo: 2771151			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.147	0.004	0.1994	0	73.5	27.6	181	0.1434	2.19	42.6	
Chrysene	0.134	0.004	0.1994	0	67.3	10	176	0.1353	0.820	45.1	
Dibenzo(a,h)anthracene	0.140	0.004	0.1994	0	70.3	12.2	156	0.1342	4.42	39.9	
Fluoranthene	0.140	0.004	0.1994	0	70.2	10	227	0.1339	4.43	66.2	
Fluorene	0.147	0.004	0.1994	0	73.8	35.2	148	0.1436	2.49	65.6	
Indeno(1,2,3-cd)pyrene	0.137	0.004	0.1994	0	68.8	10	164	0.1324	3.62	36.5	
Naphthalene	0.138	0.004	0.1994	0	69.1	14.7	128	0.1395	1.25	39.6	
Phenanthrene	0.141	0.004	0.1994	0	70.7	32.8	143	0.1381	2.13	35.4	
Pyrene	0.147	0.004	0.1994	0	73.7	10	180	0.1363	7.48	60.1	
Surr: 2-Fluorobiphenyl	0.130		0.1994		65.2	10	131		0	40	
Surr: Nitrobenzene-d5	0.116		0.1994		58.4	10	132		0	40	
Surr: p-Terphenyl-d14	0.147		0.1994		73.7	30.6	131		0	40	

Sample ID: 10100817-003AMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 10/21/2010		RunNo: 141687			
Client ID: B-2A 0-2MS		Batch ID: 63879		SW3550B		Analysis Date: 10/23/2010		SeqNo: 2771156			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.165	0.004	0.2022	0	81.7	36	135				
Acenaphthylene	0.156	0.004	0.2022	0	77.2	17.2	167				
Anthracene	0.139	0.004	0.2022	0	68.5	39.3	124				
Benzo(a)anthracene	0.159	0.004	0.2022	0.008539	74.3	10	183				
Benzo(a)pyrene	0.172	0.004	0.2022	0.005986	82.3	10	204				
Benzo(b)fluoranthene	0.198	0.004	0.2022	0.01117	92.3	10.6	178				
Benzo(g,h,i)perylene	0.163	0.004	0.2022	0.005187	78.3	10	168				
Benzo(k)fluoranthene	0.174	0.004	0.2022	0.003751	84.4	27.6	181				
Chrysene	0.180	0.004	0.2022	0.006145	85.9	10	176				
Dibenzo(a,h)anthracene	0.164	0.004	0.2022	0	81.3	12.2	156				
Fluoranthene	0.179	0.004	0.2022	0.01377	81.7	10	227				
Fluorene	0.168	0.004	0.2022	0	83.1	35.2	148				
Indeno(1,2,3-cd)pyrene	0.166	0.004	0.2022	0.004389	80.0	10	164				
Naphthalene	0.149	0.004	0.2022	0	73.5	14.7	128				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>10100817-003AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141687</b>							
Client ID: <b>B-2A 0-2MS</b>	Batch ID: <b>63879</b>	<b>SW3550B</b>	Analysis Date: <b>10/23/2010</b>	SeqNo: <b>2771156</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.163	0.004	0.2022	0.004429	78.6	32.8	143				
Pyrene	0.172	0.004	0.2022	0.01002	80.2	10	180				
Surr: 2-Fluorobiphenyl	0.107		0.2022		53.1	10	131				
Surr: Nitrobenzene-d5	0.127		0.2022		62.7	10	132				
Surr: p-Terphenyl-d14	0.167		0.2022		82.8	30.6	131				

Sample ID: <b>10100817-003AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/21/2010</b>	RunNo: <b>141687</b>							
Client ID: <b>B-2A 0-2MSD</b>	Batch ID: <b>63879</b>	<b>SW3550B</b>	Analysis Date: <b>10/23/2010</b>	SeqNo: <b>2771157</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.152	0.004	0.1995	0	76.4	36	135	0.1651	8.05	49.7	
Acenaphthylene	0.152	0.004	0.1995	0	76.3	17.2	167	0.1561	2.47	33.3	
Anthracene	0.123	0.004	0.1995	0	61.6	39.3	124	0.1385	11.9	51.1	
Benzo(a)anthracene	0.141	0.004	0.1995	0.008539	66.3	10	183	0.1588	12.0	40.6	
Benzo(a)pyrene	0.145	0.004	0.1995	0.005986	69.7	10	204	0.1723	17.2	56.4	
Benzo(b)fluoranthene	0.168	0.004	0.1995	0.01117	78.5	10.6	178	0.1978	16.4	49.7	
Benzo(g,h,i)perylene	0.145	0.004	0.1995	0.005187	70.2	10	168	0.1635	11.8	36.5	
Benzo(k)fluoranthene	0.153	0.004	0.1995	0.003751	74.8	27.6	181	0.1744	13.1	42.6	
Chrysene	0.160	0.004	0.1995	0.006145	77.1	10	176	0.1799	11.8	45.1	
Dibenzo(a,h)anthracene	0.152	0.004	0.1995	0	75.9	12.2	156	0.1644	8.16	39.9	
Fluoranthene	0.160	0.004	0.1995	0.01377	73.4	10	227	0.1790	11.0	66.2	
Fluorene	0.168	0.004	0.1995	0	84.3	35.2	148	0.1681	0.0746	65.6	
Indeno(1,2,3-cd)pyrene	0.150	0.004	0.1995	0.004389	72.8	10	164	0.1662	10.4	36.5	
Naphthalene	0.130	0.004	0.1995	0	65.1	14.7	128	0.1486	13.4	39.6	
Phenanthrene	0.152	0.004	0.1995	0.004429	73.8	32.8	143	0.1633	7.36	35.4	
Pyrene	0.165	0.004	0.1995	0.01002	77.7	10	180	0.1723	4.35	60.1	
Surr: 2-Fluorobiphenyl	0.126		0.1995		63.3	10	131		0	40	
Surr: Nitrobenzene-d5	0.119		0.1995		59.6	10	132		0	40	
Surr: p-Terphenyl-d14	0.162		0.1995		81.3	30.6	131		0	40	

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>MB-63885</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141719</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63885</b>	<b>SW3550B</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771776</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.003									
Acenaphthylene	ND	0.003									
Anthracene	ND	0.003									
Benzo(a)anthracene	ND	0.003									
Benzo(a)pyrene	ND	0.003									
Benzo(b)fluoranthene	ND	0.003									
Benzo(g,h,i)perylene	ND	0.003									
Benzo(k)fluoranthene	ND	0.003									
Chrysene	ND	0.003									
Dibenzo(a,h)anthracene	ND	0.003									
Fluoranthene	ND	0.003									
Fluorene	ND	0.003									
Indeno(1,2,3-cd)pyrene	ND	0.003									
Naphthalene	ND	0.003									
Phenanthrene	ND	0.003									
Pyrene	ND	0.003									
Surr: 2-Fluorobiphenyl	0.106		0.1670		63.3	17.5	123				
Surr: Nitrobenzene-d5	0.110		0.1670		65.9	35	105				
Surr: p-Terphenyl-d14	0.118		0.1670		70.4	53.6	122				

Sample ID: <b>LCS-63885</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141719</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63885</b>	<b>SW3550B</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771777</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.119	0.003	0.1670	0	71.2	56.3	115				
Acenaphthylene	0.115	0.003	0.1670	0	69.1	60.3	143				
Anthracene	0.102	0.003	0.1670	0	61.2	52.1	109				
Benzo(a)anthracene	0.110	0.003	0.1670	0	65.9	52.8	112				
Benzo(a)pyrene	0.108	0.003	0.1670	0	64.9	40.8	127				
Benzo(b)fluoranthene	0.124	0.003	0.1670	0	74.2	50.1	150				
Benzo(g,h,i)perylene	0.126	0.003	0.1670	0	75.5	52.8	145				



Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>LCS-63885</b>		SampType: <b>LCS</b>		Units: <b>mg/Kg</b>		Prep Date: <b>10/22/2010</b>		RunNo: <b>141719</b>			
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>63885</b>		<b>SW3550B</b>		Analysis Date: <b>10/25/2010</b>		SeqNo: <b>2771777</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	0.129	0.003	0.1670	0	77.4	52	153				
Chrysene	0.128	0.003	0.1670	0	76.8	60.8	128				
Dibenzo(a,h)anthracene	0.127	0.003	0.1670	0	76.1	54.9	150				
Fluoranthene	0.120	0.003	0.1670	0	71.7	58.7	125				
Fluorene	0.122	0.003	0.1670	0	73.3	57.8	125				
Indeno(1,2,3-cd)pyrene	0.126	0.003	0.1670	0	75.4	52	147				
Naphthalene	0.117	0.003	0.1670	0	70.0	54.8	113				
Phenanthrene	0.114	0.003	0.1670	0	68.5	60.4	121				
Pyrene	0.117	0.003	0.1670	0	70.1	57.9	129				
Surr: 2-Fluorobiphenyl	0.107		0.1670		64.4	35.3	113				
Surr: Nitrobenzene-d5	0.109		0.1670		65.5	33.9	108				
Surr: p-Terphenyl-d14	0.122		0.1670		72.8	58.4	122				

Sample ID: <b>10100794-001AMS</b>		SampType: <b>MS</b>		Units: <b>mg/Kg-dry</b>		Prep Date: <b>10/22/2010</b>		RunNo: <b>141719</b>			
Client ID: <b>ZZZZZZ</b>		Batch ID: <b>63885</b>		<b>SW3550B</b>		Analysis Date: <b>10/25/2010</b>		SeqNo: <b>2771777</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.136	0.004	0.2003	0	67.8	36	135				
Acenaphthylene	0.136	0.004	0.2003	0	68.0	17.2	167				
Anthracene	0.119	0.004	0.2003	0	59.4	39.3	124				
Benzo(a)anthracene	0.126	0.004	0.2003	0	63.0	10	183				
Benzo(a)pyrene	0.129	0.004	0.2003	0	64.3	10	204				
Benzo(b)fluoranthene	0.141	0.004	0.2003	0	70.6	10.6	178				
Benzo(g,h,i)perylene	0.149	0.004	0.2003	0	74.3	10	168				
Benzo(k)fluoranthene	0.145	0.004	0.2003	0	72.4	27.6	181				
Chrysene	0.144	0.004	0.2003	0	71.9	10	176				
Dibenzo(a,h)anthracene	0.146	0.004	0.2003	0	73.1	12.2	156				
Fluoranthene	0.132	0.004	0.2003	0	65.9	10	227				
Fluorene	0.150	0.004	0.2003	0	74.9	35.2	148				
Indeno(1,2,3-cd)pyrene	0.144	0.004	0.2003	0	71.7	10	164				
Naphthalene	0.137	0.004	0.2003	0	68.3	14.7	128				

Client: Terracon

Project: 15107073

Lab Order: 10100817

Report Date: 28-Oct-10

# ANALYTICAL QC SUMMARY REPORT

TestCode: SV\_8270S\_S\_SIMS

Sample ID: <b>10100794-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141719</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63885</b>	<b>SW3550B</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771779</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenanthrene	0.138	0.004	0.2003	0	68.7	32.8	143				
Pyrene	0.128	0.004	0.2003	0	64.1	10	180				
Surr: 2-Fluorobiphenyl	0.118		0.2003		58.9	10	131				
Surr: Nitrobenzene-d5	0.132		0.2003		66.0	10	132				
Surr: p-Terphenyl-d14	0.139		0.2003		69.2	30.6	131				

Sample ID: <b>10100794-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/22/2010</b>	RunNo: <b>141719</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>63885</b>	<b>SW3550B</b>	Analysis Date: <b>10/25/2010</b>	SeqNo: <b>2771780</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	0.146	0.004	0.2002	0	73.0	36	135	0.1357	7.39	49.7	
Acenaphthylene	0.142	0.004	0.2002	0	71.2	17.2	167	0.1361	4.55	33.3	
Anthracene	0.133	0.004	0.2002	0	66.5	39.3	124	0.1189	11.3	51.1	
Benzo(a)anthracene	0.132	0.004	0.2002	0	65.9	10	183	0.1261	4.55	40.6	
Benzo(a)pyrene	0.137	0.004	0.2002	0	68.5	10	204	0.1287	6.40	56.4	
Benzo(b)fluoranthene	0.153	0.004	0.2002	0	76.5	10.6	178	0.1415	7.99	49.7	
Benzo(g,h,i)perylene	0.159	0.004	0.2002	0	79.2	10	168	0.1487	6.44	36.5	
Benzo(k)fluoranthene	0.148	0.004	0.2002	0	74.0	27.6	181	0.1450	2.17	42.6	
Chrysene	0.150	0.004	0.2002	0	75.1	10	176	0.1439	4.31	45.1	
Dibenzo(a,h)anthracene	0.162	0.004	0.2002	0	81.0	12.2	156	0.1464	10.1	39.9	
Fluoranthene	0.157	0.004	0.2002	0	78.2	10	227	0.1321	17.0	66.2	
Fluorene	0.153	0.004	0.2002	0	76.2	35.2	148	0.1500	1.73	65.6	
Indeno(1,2,3-cd)pyrene	0.162	0.004	0.2002	0	80.8	10	164	0.1437	11.8	36.5	
Naphthalene	0.139	0.004	0.2002	0	69.3	14.7	128	0.1367	1.38	39.6	
Phenanthrene	0.150	0.004	0.2002	0	74.8	32.8	143	0.1377	8.36	35.4	
Pyrene	0.155	0.004	0.2002	0	77.5	10	180	0.1283	18.9	60.1	
Surr: 2-Fluorobiphenyl	0.102		0.2002		50.7	10	131		0	40	
Surr: Nitrobenzene-d5	0.124		0.2002		62.2	10	132		0	40	
Surr: p-Terphenyl-d14	0.155		0.2002		77.2	30.6	131		0	40	

**Client:** Terracon

**Project:** 15107073

**Lab Order:** 10100817

**Report Date:** 28-Oct-10

## RECEIVING CHECK LIST

Carrier: Jacob Grimes

Received By: DB

Completed by:

(b) (6)

Reviewed by:

(b) (6)

On:

20-Oct-10

Dawn Brantley

On:

20-Oct-10

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C 6.2
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		
<div style="border: 1px solid black; padding: 2px;"><i>When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.</i></div>				
Water - vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input checked="" type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

Any No responses must be detailed below or on the COC.

-----  
The samples were out of temperature compliance upon receipt. Per Eric Schatz, continue with analyses out of temperature compliance. DB 10/20/10

# CHAIN OF CUSTODY

pg. 1 of 6 Work Order # 10100817

**TEKLAB, INC.** 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Terracon - STL  
 Address: \_\_\_\_\_  
 City / State / Zip: \_\_\_\_\_  
 Contact: Eric Schatz Phone: 314-692-5811  
 E-Mail: ESchatz2@Terracon.com Fax: \_\_\_\_\_

Samples on:  Ice  Blue Ice  No Ice 6.2 °C  
 Preserved in:  Lab  Field **FOR LAB USE ONLY**  
 Lab Notes: Per Eric Schatz OK to proceed out of temp. DB 10/20/10  
 Comments: \_\_\_\_\_

- Are these samples known to be involved in litigation? If yes, a surcharge will apply.  Yes  No
- Are these samples known to be hazardous?  Yes  No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section.  Yes  No

Project Name / Number			Sample Collector's Name								MATRIX					INDICATE ANALYSIS REQUESTED																				
<u>LS107073</u>			<u>ERIC Schatz</u>								Water	Drinking Water	Soil	Sludge	Sp. Waste																					
Results Requested		Billing Instructions		# and Type of Containers																																
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)				UNPRES		HNO <sub>3</sub>		NaOH		H <sub>2</sub> SO <sub>4</sub>		HCL		MeOH		NaHSO <sub>4</sub>		Other																		
<input type="checkbox"/> Other _____ <input type="checkbox"/> 3 Day (50% Surcharge)																																				
Lab Use Only	Sample Identification	Date/Time Sampled																																		
<u>10100817-001</u>	<u>B-1A 0-2</u>	<u>10-19-10 825</u>																																		
<u>002</u>	<u>B-1B 16</u>	<u>830</u>																																		
<u>003</u>	<u>B-2A 0-2</u>	<u>855</u>																																		
<u>004</u>	<u>B-2B 16</u>	<u>905</u>																																		
<u>005</u>	<u>B-3A 0-2</u>	<u>925</u>																																		
<u>006</u>	<u>B-3B 16</u>	<u>935</u>																																		
<u>007</u>	<u>B-4A 0-2</u>	<u>1010</u>																																		
<u>008</u>	<u>B-4B 16</u>	<u>1020</u>																																		
<u>009</u>	<u>B-5A 0-2</u>	<u>1025</u>																																		
<u>010</u>	<u>B-5B 16</u>	<u>1035</u>																																		

Terracon, Inc.  
 Superior Pick Up

Relinquished By	Date / Time	Received By	Date / Time
[REDACTED]	<u>10/20/10 1255</u>	[REDACTED]	<u>10/20/10 1100</u> <u>10/20/10 1255</u>

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.











