



*CERTIFICATE OF ANALYSIS*

Josh Klement  
Vanasse Hangen Brustlin, Inc.  
10 Dorrance Street, Suite 400  
Providence, RI 02903

**RE: Trestle Trail (72016.1)**  
**ESS Laboratory Work Order Number: 1112243**

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard  
Laboratory Director

**REVIEWED**

**By SMorrell at 4:24 pm, Dec 29, 2011**

**Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail

ESS Laboratory Work Order: 1112243

**SAMPLE RECEIPT**

The following samples were received on December 13, 2011 for the analyses specified on the enclosed Chain of Custody Record.

<b>Lab Number</b>	<b>SampleName</b>	<b>Matrix</b>	<b>Analysis</b>
1112243-01	SS-705 0ft-2ft	Soil	6010B, 8270C
1112243-02	SS-706 0ft-2ft	Soil	6010B, 8270C
1112243-03	SS-707 0ft-2ft	Soil	7060A, 8270C
1112243-04	SS-708 0ft-2ft	Soil	6010B, 8270C
1112243-05	SS-713 0ft-2ft	Soil	6010B, 8270C
1112243-06	SS-714 0ft-2ft	Soil	6010B, 8270C
1112243-07	SS-715 0ft-2ft	Soil	6010B, 8270C
1112243-08	SS-716 0ft-2ft	Soil	6010B, 8270C



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail

ESS Laboratory Work Order: 1112243

**PROJECT NARRATIVE**

**8270C Polynuclear Aromatic Hydrocarbons**

CUL0120-CCV1 [Calibration required quadratic regression \(O\).](#)

Dibenzo(a,h)Anthracene (95% @ 70-130%), Indeno(1,2,3-cd)Pyrene (97% @ 70-130%)

**No other observations noted.**

**End of Project Narrative.**

**DATA USABILITY LINKS**

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-705 0ft-2ft  
Date Sampled: 12/13/11 08:46  
Percent Solids: 90

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-01  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	17.9 (2.5)	6010B	7	1	SVD	12/17/11 0:00	2.2	100	CL11624



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-705 0ft-2ft  
Date Sampled: 12/13/11 08:46  
Percent Solids: 90  
Initial Volume: 14.64  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-01  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.379)	123	1	12/16/11 7:22	CUL0120	CL11516
Acenaphthene	ND (0.379)	43	1	12/16/11 7:22	CUL0120	CL11516
Acenaphthylene	ND (0.379)	23	1	12/16/11 7:22	CUL0120	CL11516
Anthracene	ND (0.379)	35	1	12/16/11 7:22	CUL0120	CL11516
<b>Benzo(a)anthracene</b>	<b>1.10</b> (0.379)	0.9	1	12/16/11 7:22	CUL0120	CL11516
<b>Benzo(a)pyrene</b>	<b>0.819</b> (0.190)	0.4	1	12/16/11 7:22	CUL0120	CL11516
<b>Benzo(b)fluoranthene</b>	<b>1.41</b> (0.379)	0.9	1	12/16/11 7:22	CUL0120	CL11516
<b>Benzo(g,h,i)perylene</b>	<b>0.587</b> (0.379)	0.8	1	12/16/11 7:22	CUL0120	CL11516
<b>Benzo(k)fluoranthene</b>	<b>0.565</b> (0.379)	0.9	1	12/16/11 7:22	CUL0120	CL11516
<b>Chrysene</b>	<b>1.47</b> (0.190)	0.4	1	12/16/11 7:22	CUL0120	CL11516
<b>Dibenzo(a,h)Anthracene</b>	<b>0.205</b> (0.190)	0.4	1	12/16/11 7:22	CUL0120	CL11516
<b>Fluoranthene</b>	<b>2.41</b> (0.379)	20	1	12/16/11 7:22	CUL0120	CL11516
Fluorene	ND (0.379)	28	1	12/16/11 7:22	CUL0120	CL11516
<b>Indeno(1,2,3-cd)Pyrene</b>	<b>0.668</b> (0.379)	0.9	1	12/16/11 7:22	CUL0120	CL11516
Naphthalene	ND (0.379)	54	1	12/16/11 7:22	CUL0120	CL11516
<b>Phenanthrene</b>	<b>0.951</b> (0.379)	40	1	12/16/11 7:22	CUL0120	CL11516
<b>Pyrene</b>	<b>2.15</b> (0.379)	13	1	12/16/11 7:22	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	67 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	71 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	97 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-706 0ft-2ft  
Date Sampled: 12/13/11 08:57  
Percent Solids: 92

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-02  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	7.3 (2.5)	6010B	7	1	SVD	12/17/11 0:04	2.17	100	CL11624



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-706 0ft-2ft  
Date Sampled: 12/13/11 08:57  
Percent Solids: 92  
Initial Volume: 15.39  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-02  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.353)	123	1	12/16/11 7:55	CUL0120	CL11516
Acenaphthene	ND (0.353)	43	1	12/16/11 7:55	CUL0120	CL11516
Acenaphthylene	ND (0.353)	23	1	12/16/11 7:55	CUL0120	CL11516
Anthracene	ND (0.353)	35	1	12/16/11 7:55	CUL0120	CL11516
Benzo(a)anthracene	ND (0.353)	0.9	1	12/16/11 7:55	CUL0120	CL11516
<b>Benzo(a)pyrene</b>	<b>0.258</b> (0.177)	0.4	1	12/16/11 7:55	CUL0120	CL11516
<b>Benzo(b)fluoranthene</b>	<b>0.509</b> (0.353)	0.9	1	12/16/11 7:55	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.353)	0.8	1	12/16/11 7:55	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.353)	0.9	1	12/16/11 7:55	CUL0120	CL11516
<b>Chrysene</b>	<b>0.421</b> (0.177)	0.4	1	12/16/11 7:55	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.177)	0.4	1	12/16/11 7:55	CUL0120	CL11516
<b>Fluoranthene</b>	<b>0.683</b> (0.353)	20	1	12/16/11 7:55	CUL0120	CL11516
Fluorene	ND (0.353)	28	1	12/16/11 7:55	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.353)	0.9	1	12/16/11 7:55	CUL0120	CL11516
Naphthalene	ND (0.353)	54	1	12/16/11 7:55	CUL0120	CL11516
Phenanthrene	ND (0.353)	40	1	12/16/11 7:55	CUL0120	CL11516
<b>Pyrene</b>	<b>0.629</b> (0.353)	13	1	12/16/11 7:55	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	70 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	96 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-707 0ft-2ft  
Date Sampled: 12/13/11 09:04  
Percent Solids: 92

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-03  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	7.25 (1.17)	7060A	7	5	JP	12/28/11 17:14	2.3	100	CL11624





*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-707 0ft-2ft  
Date Sampled: 12/13/11 09:04  
Percent Solids: 92  
Initial Volume: 15.82  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-03  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.343)	123	1	12/16/11 8:29	CUL0120	CL11516
Acenaphthene	ND (0.343)	43	1	12/16/11 8:29	CUL0120	CL11516
Acenaphthylene	ND (0.343)	23	1	12/16/11 8:29	CUL0120	CL11516
Anthracene	ND (0.343)	35	1	12/16/11 8:29	CUL0120	CL11516
<b>Benzo(a)anthracene</b>	<b>0.429</b> (0.343)	0.9	1	12/16/11 8:29	CUL0120	CL11516
<b>Benzo(a)pyrene</b>	<b>0.348</b> (0.172)	0.4	1	12/16/11 8:29	CUL0120	CL11516
<b>Benzo(b)fluoranthene</b>	<b>0.621</b> (0.343)	0.9	1	12/16/11 8:29	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.343)	0.8	1	12/16/11 8:29	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.343)	0.9	1	12/16/11 8:29	CUL0120	CL11516
<b>Chrysene</b>	<b>0.500</b> (0.172)	0.4	1	12/16/11 8:29	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.172)	0.4	1	12/16/11 8:29	CUL0120	CL11516
<b>Fluoranthene</b>	<b>0.819</b> (0.343)	20	1	12/16/11 8:29	CUL0120	CL11516
Fluorene	ND (0.343)	28	1	12/16/11 8:29	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.343)	0.9	1	12/16/11 8:29	CUL0120	CL11516
Naphthalene	ND (0.343)	54	1	12/16/11 8:29	CUL0120	CL11516
Phenanthrene	ND (0.343)	40	1	12/16/11 8:29	CUL0120	CL11516
<b>Pyrene</b>	<b>0.769</b> (0.343)	13	1	12/16/11 8:29	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	68 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	77 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	71 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	95 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-708 0ft-2ft  
Date Sampled: 12/13/11 09:14  
Percent Solids: 92

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-04  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (2.7)	6010B	7	1	SVD	12/17/11 0:20	2.03	100	CL11624



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-708 0ft-2ft  
Date Sampled: 12/13/11 09:14  
Percent Solids: 92  
Initial Volume: 15.63  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-04  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.347)	123	1	12/16/11 9:02	CUL0120	CL11516
Acenaphthene	ND (0.347)	43	1	12/16/11 9:02	CUL0120	CL11516
Acenaphthylene	ND (0.347)	23	1	12/16/11 9:02	CUL0120	CL11516
Anthracene	ND (0.347)	35	1	12/16/11 9:02	CUL0120	CL11516
Benzo(a)anthracene	ND (0.347)	0.9	1	12/16/11 9:02	CUL0120	CL11516
Benzo(a)pyrene	ND (0.174)	0.4	1	12/16/11 9:02	CUL0120	CL11516
Benzo(b)fluoranthene	ND (0.347)	0.9	1	12/16/11 9:02	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.347)	0.8	1	12/16/11 9:02	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.347)	0.9	1	12/16/11 9:02	CUL0120	CL11516
Chrysene	ND (0.174)	0.4	1	12/16/11 9:02	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.174)	0.4	1	12/16/11 9:02	CUL0120	CL11516
Fluoranthene	ND (0.347)	20	1	12/16/11 9:02	CUL0120	CL11516
Fluorene	ND (0.347)	28	1	12/16/11 9:02	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.347)	0.9	1	12/16/11 9:02	CUL0120	CL11516
Naphthalene	ND (0.347)	54	1	12/16/11 9:02	CUL0120	CL11516
Phenanthrene	ND (0.347)	40	1	12/16/11 9:02	CUL0120	CL11516
Pyrene	ND (0.347)	13	1	12/16/11 9:02	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	70 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	98 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-713 0ft-2ft  
Date Sampled: 12/13/11 10:12  
Percent Solids: 91

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-05  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	14.0 (2.6)	6010B	7	1	SVD	12/17/11 0:24	2.09	100	CL11624



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
 Client Project ID: Trestle Trail  
 Client Sample ID: SS-713 0ft-2ft  
 Date Sampled: 12/13/11 10:12  
 Percent Solids: 91  
 Initial Volume: 14.7  
 Final Volume: 0.5  
 Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
 ESS Laboratory Sample ID: 1112243-05  
 Sample Matrix: Soil  
 Units: mg/kg dry  
 Analyst: IBM  
 Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.373)	123	1	12/16/11 10:08	CUL0120	CL11516
Acenaphthene	ND (0.373)	43	1	12/16/11 10:08	CUL0120	CL11516
Acenaphthylene	ND (0.373)	23	1	12/16/11 10:08	CUL0120	CL11516
Anthracene	ND (0.373)	35	1	12/16/11 10:08	CUL0120	CL11516
Benzo(a)anthracene	ND (0.373)	0.9	1	12/16/11 10:08	CUL0120	CL11516
Benzo(a)pyrene	ND (0.187)	0.4	1	12/16/11 10:08	CUL0120	CL11516
Benzo(b)fluoranthene	ND (0.373)	0.9	1	12/16/11 10:08	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.373)	0.8	1	12/16/11 10:08	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.373)	0.9	1	12/16/11 10:08	CUL0120	CL11516
<b>Chrysene</b>	<b>0.261</b> (0.187)	0.4	1	12/16/11 10:08	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.187)	0.4	1	12/16/11 10:08	CUL0120	CL11516
Fluoranthene	ND (0.373)	20	1	12/16/11 10:08	CUL0120	CL11516
Fluorene	ND (0.373)	28	1	12/16/11 10:08	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.373)	0.9	1	12/16/11 10:08	CUL0120	CL11516
Naphthalene	ND (0.373)	54	1	12/16/11 10:08	CUL0120	CL11516
Phenanthrene	ND (0.373)	40	1	12/16/11 10:08	CUL0120	CL11516
Pyrene	ND (0.373)	13	1	12/16/11 10:08	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	62 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	62 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	67 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	70 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-714 0ft-2ft  
Date Sampled: 12/13/11 10:22  
Percent Solids: 90

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-06  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (2.6)	6010B	7	1	SVD	12/17/11 0:28	2.14	100	CL11624



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-714 0ft-2ft  
Date Sampled: 12/13/11 10:22  
Percent Solids: 90  
Initial Volume: 14.22  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-06  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.390)	123	1	12/16/11 10:42	CUL0120	CL11516
Acenaphthene	ND (0.390)	43	1	12/16/11 10:42	CUL0120	CL11516
Acenaphthylene	ND (0.390)	23	1	12/16/11 10:42	CUL0120	CL11516
Anthracene	ND (0.390)	35	1	12/16/11 10:42	CUL0120	CL11516
Benzo(a)anthracene	ND (0.390)	0.9	1	12/16/11 10:42	CUL0120	CL11516
Benzo(a)pyrene	ND (0.196)	0.4	1	12/16/11 10:42	CUL0120	CL11516
Benzo(b)fluoranthene	ND (0.390)	0.9	1	12/16/11 10:42	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.390)	0.8	1	12/16/11 10:42	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.390)	0.9	1	12/16/11 10:42	CUL0120	CL11516
Chrysene	ND (0.196)	0.4	1	12/16/11 10:42	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.196)	0.4	1	12/16/11 10:42	CUL0120	CL11516
Fluoranthene	ND (0.390)	20	1	12/16/11 10:42	CUL0120	CL11516
Fluorene	ND (0.390)	28	1	12/16/11 10:42	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.390)	0.9	1	12/16/11 10:42	CUL0120	CL11516
Naphthalene	ND (0.390)	54	1	12/16/11 10:42	CUL0120	CL11516
Phenanthrene	ND (0.390)	40	1	12/16/11 10:42	CUL0120	CL11516
Pyrene	ND (0.390)	13	1	12/16/11 10:42	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	62 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	69 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	75 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-715 0ft-2ft  
Date Sampled: 12/13/11 10:28  
Percent Solids: 89

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-07  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	18.6 (2.3)	6010B	7	1	SVD	12/17/11 0:32	2.44	100	CL11624





*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-715 0ft-2ft  
Date Sampled: 12/13/11 10:28  
Percent Solids: 89  
Initial Volume: 14.14  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-07  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.397)	123	1	12/16/11 11:16	CUL0120	CL11516
Acenaphthene	ND (0.397)	43	1	12/16/11 11:16	CUL0120	CL11516
Acenaphthylene	ND (0.397)	23	1	12/16/11 11:16	CUL0120	CL11516
Anthracene	ND (0.397)	35	1	12/16/11 11:16	CUL0120	CL11516
<b>Benzo(a)anthracene</b>	<b>0.495</b> (0.397)	0.9	1	12/16/11 11:16	CUL0120	CL11516
<b>Benzo(a)pyrene</b>	<b>0.400</b> (0.199)	0.4	1	12/16/11 11:16	CUL0120	CL11516
<b>Benzo(b)fluoranthene</b>	<b>0.826</b> (0.397)	0.9	1	12/16/11 11:16	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.397)	0.8	1	12/16/11 11:16	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.397)	0.9	1	12/16/11 11:16	CUL0120	CL11516
<b>Chrysene</b>	<b>0.893</b> (0.199)	0.4	1	12/16/11 11:16	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.199)	0.4	1	12/16/11 11:16	CUL0120	CL11516
<b>Fluoranthene</b>	<b>1.60</b> (0.397)	20	1	12/16/11 11:16	CUL0120	CL11516
Fluorene	ND (0.397)	28	1	12/16/11 11:16	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.397)	0.9	1	12/16/11 11:16	CUL0120	CL11516
Naphthalene	ND (0.397)	54	1	12/16/11 11:16	CUL0120	CL11516
<b>Phenanthrene</b>	<b>0.527</b> (0.397)	40	1	12/16/11 11:16	CUL0120	CL11516
<b>Pyrene</b>	<b>1.36</b> (0.397)	13	1	12/16/11 11:16	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	62 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	67 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	68 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	74 %		30-130



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-716 0ft-2ft  
Date Sampled: 12/13/11 10:37  
Percent Solids: 90

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-08  
Sample Matrix: Soil  
Units: mg/kg dry

**3050B/6000/7000 Total Metals**

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (2.7)	6010B	7	1	SVD	12/17/11 0:36	2.06	100	CL11624



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail  
Client Sample ID: SS-716 0ft-2ft  
Date Sampled: 12/13/11 10:37  
Percent Solids: 90  
Initial Volume: 14.25  
Final Volume: 0.5  
Extraction Method: 3546

ESS Laboratory Work Order: 1112243  
ESS Laboratory Sample ID: 1112243-08  
Sample Matrix: Soil  
Units: mg/kg dry  
Analyst: IBM  
Prepared: 12/15/11 13:00

**8270C Polynuclear Aromatic Hydrocarbons**

**RI - RES DEC**

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.389)	123	1	12/16/11 11:49	CUL0120	CL11516
Acenaphthene	ND (0.389)	43	1	12/16/11 11:49	CUL0120	CL11516
Acenaphthylene	ND (0.389)	23	1	12/16/11 11:49	CUL0120	CL11516
Anthracene	ND (0.389)	35	1	12/16/11 11:49	CUL0120	CL11516
Benzo(a)anthracene	ND (0.389)	0.9	1	12/16/11 11:49	CUL0120	CL11516
Benzo(a)pyrene	ND (0.195)	0.4	1	12/16/11 11:49	CUL0120	CL11516
Benzo(b)fluoranthene	ND (0.389)	0.9	1	12/16/11 11:49	CUL0120	CL11516
Benzo(g,h,i)perylene	ND (0.389)	0.8	1	12/16/11 11:49	CUL0120	CL11516
Benzo(k)fluoranthene	ND (0.389)	0.9	1	12/16/11 11:49	CUL0120	CL11516
Chrysene	ND (0.195)	0.4	1	12/16/11 11:49	CUL0120	CL11516
Dibenzo(a,h)Anthracene	ND (0.195)	0.4	1	12/16/11 11:49	CUL0120	CL11516
Fluoranthene	ND (0.389)	20	1	12/16/11 11:49	CUL0120	CL11516
Fluorene	ND (0.389)	28	1	12/16/11 11:49	CUL0120	CL11516
Indeno(1,2,3-cd)Pyrene	ND (0.389)	0.9	1	12/16/11 11:49	CUL0120	CL11516
Naphthalene	ND (0.389)	54	1	12/16/11 11:49	CUL0120	CL11516
Phenanthrene	ND (0.389)	40	1	12/16/11 11:49	CUL0120	CL11516
Pyrene	ND (0.389)	13	1	12/16/11 11:49	CUL0120	CL11516

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	66 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	68 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	68 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	92 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail

ESS Laboratory Work Order: 1112243

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

**Batch CL11624 - 3050B**

<b>Blank</b>										
Arsenic	ND	0.25	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
<b>LCS</b>										
Arsenic	111	9.6	mg/kg wet	124.0		89	80-120			
Arsenic	124	47.6	mg/kg wet	124.0		100	80-120			
<b>LCS Dup</b>										
Arsenic	112	9.6	mg/kg wet	124.0		90	80-120	0.7	20	
Arsenic	112	47.6	mg/kg wet	124.0		91	80-120	10	20	
<b>Duplicate Source: 1112243-08</b>										
Arsenic	2.38	2.6	mg/kg dry		1.47			47	35	
<b>Matrix Spike Source: 1112243-08</b>										
Arsenic	20.5	2.5	mg/kg dry	24.58	1.47	77	75-125			

8270C Polynuclear Aromatic Hydrocarbons

**Batch CL11516 - 3546**

<b>Blank</b>										
2-Methylnaphthalene	ND	0.333	mg/kg wet							
Acenaphthene	ND	0.333	mg/kg wet							
Acenaphthylene	ND	0.333	mg/kg wet							
Anthracene	ND	0.333	mg/kg wet							
Benzo(a)anthracene	ND	0.333	mg/kg wet							
Benzo(a)pyrene	ND	0.167	mg/kg wet							
Benzo(b)fluoranthene	ND	0.333	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.333	mg/kg wet							
Benzo(k)fluoranthene	ND	0.333	mg/kg wet							
Chrysene	ND	0.167	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
Fluoranthene	ND	0.333	mg/kg wet							
Fluorene	ND	0.333	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
Naphthalene	ND	0.333	mg/kg wet							
Phenanthrene	ND	0.333	mg/kg wet							
Pyrene	ND	0.333	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.28		mg/kg wet	3.333		68	30-130			
Surrogate: 2-Fluorobiphenyl	2.64		mg/kg wet	3.333		79	30-130			
Surrogate: Nitrobenzene-d5	2.45		mg/kg wet	3.333		73	30-130			
Surrogate: p-Terphenyl-d14	4.11		mg/kg wet	3.333		123	30-130			

<b>LCS</b>										
2-Methylnaphthalene	2.59	0.333	mg/kg wet	3.333		78	40-140			
Acenaphthene	2.64	0.333	mg/kg wet	3.333		79	40-140			
Acenaphthylene	2.76	0.333	mg/kg wet	3.333		83	40-140			
Anthracene	3.01	0.333	mg/kg wet	3.333		90	40-140			
Benzo(a)anthracene	2.93	0.333	mg/kg wet	3.333		88	40-140			



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail

ESS Laboratory Work Order: 1112243

**Quality Control Data**

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8270C Polynuclear Aromatic Hydrocarbons</b>										
<b>Batch CL11516 - 3546</b>										
Benzo(a)pyrene	2.78	0.167	mg/kg wet	3.333		84	40-140			
Benzo(b)fluoranthene	2.68	0.333	mg/kg wet	3.333		80	40-140			
Benzo(g,h,i)perylene	3.11	0.333	mg/kg wet	3.333		93	40-140			
Benzo(k)fluoranthene	3.02	0.333	mg/kg wet	3.333		91	40-140			
Chrysene	2.86	0.167	mg/kg wet	3.333		86	40-140			
Dibenzo(a,h)Anthracene	2.79	0.167	mg/kg wet	3.333		84	40-140			
Fluoranthene	3.31	0.333	mg/kg wet	3.333		99	40-140			
Fluorene	2.87	0.333	mg/kg wet	3.333		86	40-140			
Indeno(1,2,3-cd)Pyrene	2.91	0.333	mg/kg wet	3.333		87	40-140			
Naphthalene	2.33	0.333	mg/kg wet	3.333		70	40-140			
Phenanthrene	2.85	0.333	mg/kg wet	3.333		85	40-140			
Pyrene	2.90	0.333	mg/kg wet	3.333		87	40-140			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.38		mg/kg wet	3.333		71	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.60		mg/kg wet	3.333		78	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	2.29		mg/kg wet	3.333		69	30-130			
<i>Surrogate: p-Terphenyl-d14</i>	3.21		mg/kg wet	3.333		96	30-130			
<b>LCS Dup</b>										
2-Methylnaphthalene	2.76	0.333	mg/kg wet	3.333		83	40-140	6	30	
Acenaphthene	2.68	0.333	mg/kg wet	3.333		80	40-140	2	30	
Acenaphthylene	2.81	0.333	mg/kg wet	3.333		84	40-140	2	30	
Anthracene	3.22	0.333	mg/kg wet	3.333		97	40-140	7	30	
Benzo(a)anthracene	3.10	0.333	mg/kg wet	3.333		93	40-140	5	30	
Benzo(a)pyrene	2.97	0.167	mg/kg wet	3.333		89	40-140	7	30	
Benzo(b)fluoranthene	2.95	0.333	mg/kg wet	3.333		89	40-140	10	30	
Benzo(g,h,i)perylene	3.42	0.333	mg/kg wet	3.333		103	40-140	10	30	
Benzo(k)fluoranthene	2.98	0.333	mg/kg wet	3.333		89	40-140	1	30	
Chrysene	3.06	0.167	mg/kg wet	3.333		92	40-140	7	30	
Dibenzo(a,h)Anthracene	3.05	0.167	mg/kg wet	3.333		91	40-140	9	30	
Fluoranthene	3.54	0.333	mg/kg wet	3.333		106	40-140	7	30	
Fluorene	2.94	0.333	mg/kg wet	3.333		88	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	3.16	0.333	mg/kg wet	3.333		95	40-140	8	30	
Naphthalene	2.54	0.333	mg/kg wet	3.333		76	40-140	9	30	
Phenanthrene	3.05	0.333	mg/kg wet	3.333		91	40-140	7	30	
Pyrene	3.16	0.333	mg/kg wet	3.333		95	40-140	9	30	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.48		mg/kg wet	3.333		74	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.71		mg/kg wet	3.333		81	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	2.52		mg/kg wet	3.333		76	30-130			
<i>Surrogate: p-Terphenyl-d14</i>	3.42		mg/kg wet	3.333		102	30-130			



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.

Client Project ID: Trestle Trail

ESS Laboratory Work Order: 1112243

**Notes and Definitions**

- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



*CERTIFICATE OF ANALYSIS*

Client Name: Vanasse Hangen Brustlin, Inc.  
Client Project ID: Trestle Trail

ESS Laboratory Work Order: 1112243

**ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS**

**ENVIRONMENTAL**

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01  
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179  
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750  
[http://www.ct.gov/dph/lib/dph/environmental\\_health/environmental\\_laboratories/pdf/out\\_state.pdf](http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf)

Maine Potable and Non Potable Water: RI0002  
[http://www.maine.gov/dep/blwq/topic/vessel/lab\\_list.pdf](http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf)

Massachusetts Potable and Non Potable Water: M-RI002  
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424  
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313  
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301  
[http://www.mde.state.md.us/assets/document/WSP\\_labs-2009apr20.pdf](http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf)

**CHEMISTRY**

A2LA Accredited: Testing Cert # 2864.01  
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)  
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141  
Lead Paint, Lead in Children's Metals Jewelry  
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

**Sample and Cooler Receipt Checklist**

Client: V.H.B.  
Client Project ID: \_\_\_\_\_  
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120243  
Date Project Due: 12/20/11  
Days For Project: 5 Day

**Items to be checked upon receipt:**

- |  |                               |   |  |
|--|-------------------------------|---|--|
| 1. Air Bill Manifest Present?          | <input type="checkbox"/> * No | 10. Are the samples properly preserved?   | <input type="checkbox"/> Yes                             |
| Air No.:                               |                               | 11. Proper sample containers used?        | <input type="checkbox"/> Yes                             |
| 2. Were Custody Seals Present?         | <input type="checkbox"/> No   | 12. Any air bubbles in the VOA vials?     | <input type="checkbox"/> N/A                             |
| 3. Were Custody Seals Intact?          | <input type="checkbox"/> N/A  | 13. Holding times exceeded?               | <input type="checkbox"/> No                              |
| 4. Is Radiation count < 100 CPM?       | <input type="checkbox"/> Yes  | 14. Sufficient sample volumes?            | <input type="checkbox"/> Yes                             |
| 5. Is a cooler present?                | <input type="checkbox"/> Yes  | 15. Any Subcontracting needed?            | <input type="checkbox"/> No                              |
| Cooler Temp: <u>0.8</u>                |                               | 16. Are ESS labels on correct containers? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Icepacks</u>             |                               | 17. Were samples received intact?         | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples?      | <input type="checkbox"/> Yes  | ESS Sample IDs: _____                     |  |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes  | Sub Lab: _____                            |  |
| 8. Does the COC match the sample       | <input type="checkbox"/> Yes  | Analysis: _____                           |  |
| 9. Is COC complete and correct?        | <input type="checkbox"/> Yes  | TAT: _____                                |  |

18. Was there need to call project manager to discuss status? If yes, please explain.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Who was called?: \_\_\_\_\_ By whom? \_\_\_\_\_

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	1	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	1	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
8	Yes	4 oz Soil Jar	1	NP

Completed By: BC  
Reviewed By: [Signature]

Date/Time: 12/13/11  
Date/Time: 12/13/11



# ESS Laboratory

Division of *Thielsch Engineering, Inc.*  
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 Tel. (401) 461-7181 Fax (401) 461-4486  
 www.esslaboratory.com

# CHAIN OF CUSTODY

Page 1 of 2

Turn Time  Standard  Other \_\_\_\_\_  
 If faster than 5 days, prior approval by laboratory is required # \_\_\_\_\_

Reporting Limits **RDEC**

ESS LAB PROJECT ID **112243**

State where samples were collected from:  
 MA  RI  CT  NH  NY  ME  Other \_\_\_\_\_

Electronic Deliverable Yes  No

Format: Excel  Access  PDF  Other

Is this project for any of the following: USACE  Other **NA**

MA-MCP  Navy

Co. Name	Project #	Project Name (20 Char. or less)	Write Required Analysis							
VHB	72016.1	Trestle Trail								
Contact Person	Address									
Joshua Klement	10 Dorrance St. Suite 400									
City	State	Zip								
Providence	RI	02903								
Telephone #	Fax #	Email Address								
401-272-8100		J.Klement@VHB.com								
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12-13-11	08:46	X		S	SS-705 0-2-	1	6		
02		08:57				SS-706 0-2-				
03		09:04				SS-707 0-2-				
04		09:14				SS-708 0-2-				
05		10:12				SS-713 0-2-				
06		10:22				SS-714 0-2-				
07		10:28				SS-715 0-2-				
08	X	10:37	X		X	SS-716 0-2-	X			

Container Type: P-Poly  Glass  S-Sterile  V-VOA  Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present  Yes  No  Internal Use Only  Yes  No  NA:   Pickup   Technicians \_\_\_\_\_

Seals Intact  Yes  No  NA:   Pickup   Technicians \_\_\_\_\_

Cooler Temp: 08

Preservation Code 1- NR, 2- HCl, 3- H<sub>2</sub>SO<sub>4</sub>, 4- HNO<sub>3</sub>, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- \_\_\_\_\_

Sampled by: **SGK**

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Joshua Klement</i>	12-13-11 13:35	<i>[Signature]</i>	