

March 29, 2012

Allen Bartels TERRACON 13910 West 96th Terrace Leneya, KS 66215

Bureau Veritas Work Order No. A1203245

Reference: 15119080

Dear Allen Bartels:

Bureau Veritas North America, Inc. received 57 samples on March 20, 2012 for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a sixty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Clint Gilbert

Senior Microscopist
Electronic signature authorized through password protection

cc: Ks Arnold



Date: 28-Mar-12

## CASE NARRATIVE

CLIENT:

TERRACON

Project:

15119080

Work Order No A1203245

Note: The lab did not receive A1203245-013A (client sample # 163) and A1203245-054A (client sample # 207).

Two samples were labeled 175, no sample was labeled 176. Per client, the both samples are combined and analyzed under A1203245-023A.

# METHOD FOR SEMI-QUANTITATIVE ASBESTOS ANALYSIS OF BULK/SOIL SAMPLES USING TRANSMISSION ELECTRON MICROSCOPY (TEM)

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected unless otherwise noted.

Upon receipt in the laboratory, representative portions of the sample are examined under a stereomicroscope. Approximately 100 milligrams (mg) of the material is suspended in 5 milliliters (ml) of acetone. The mixture is ultrasonicated for three minutes. It is then centrifuged for three minutes, and the acetone supernatant is decanted to a level of 0.5 ml. The remaining material is resuspended, and a drop of the suspension is then placed on each of two carbon-coated copper grids (3mm diameter, 200 mesh). The sample grids are dried and then examined using TEM. At least five openings are examined on each grid at high magnification (15,000X). Asbestos structures containing fibers which meet a >3:1 length: width aspect ratio are identified using morphology, selected-area electron diffraction, and energy-dispersive x-ray spectroscopy. Fibers identified as asbestos are classified as chrysotile, crocidolite, amosite, tremolite-actinolite or anthophyllite.

Results are reported as "no asbestos detected (NAD)", "trace, <1% asbestos", or ">1% asbestos." Identification of asbestos type(s) is also reported.

The result of the analysis is a semi-quantitative assessment of asbestos presence and type.

### References

Bureau Veritas North America, Inc., February 20, 1989. Kennesaw, Georgia Laboratory. Internal Method.



CLIENT:

TERRACON

Project:

15119080

Work Order No A1203245

United States Environmental Protection Agency. Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Date: 28-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Date Received: 3/20/2012 1:38:32 PM Report Date: 3/28/2012 1:52:51 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12A-1

Lab Sample No.	Client Sample Identification	Date Sampled	<b>-</b>		Sample D Analyst (Morph		
A1203245-001A	151	03/14/12	03/27/12	. NG So		il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	
Chrysotile	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	-
A1203245-002A	152	03/14/12	03/27/12	NG	So	il
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample Client Sample No. Identification		Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203245-003A	153	03/14/12	03/27/12	NG	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	l <1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Sample Descript Analyst (Morphology) NG Soil		
A1203245-004A	154	03/14/12	03/27/12			oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date: 28-Mar-12

Date Received: 3/20/2012 1:38:32 PM

Report Date:

3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Sample Desc Analyst (Morpholo		-	
A1203245-005A	155	03/14/12	03/27/12	NG	Sc	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

Lab Sample Client Sample Date Sample Description Analysis No. Identification Sampled Date Analyst (Morphology) A1203245-006A 156 03/14/12 03/27/12 NG Soil Asbestos Identification (%) Fibrous Material (%) Non-Fibrous Material (%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descrip yst (Morphology	
A1203245-007A	157	03/14/12	03/27/12	NG	Se	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
Chrysotile	<1					······································

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203245-008A	158	03/14/12	03/27/12	NG		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Amosite	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 28-Mar-12

Date Received: 3/20/2012 1:38:32 PM

Report Date: 3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-1

*	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203245-009A	159	03/14/12	03/27/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph		
A1203245-010A	160	03/14/12	03/27/12	NG	Sc	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)	
Chrysotile	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description yst (Morphology)	
A1203245-011A	161	03/14/12	03/27/12	NG	Sc	oi1
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Sample De Analyst (Morph		
A1203245-012A	162	03/14/12	03/27/12	NG	Soil	
Asbestos Identific	eation (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Comple True Dulle

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date: 28-Mar-12

Date Received: 3/20

3/20/2012 1:38:32 PM

Report Date:

3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-6

Lab Sample Client Sample Date Analysis Sample Description No. Identification Sampled Date Analyst (Morphology) A1203245-013A 163 03/14/12 03/27/12 KRP

## Sample not received by lab.

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Sample Des Analyst (Morpho		•
A1203245-014A	164	03/14/12	03/27/12	NG	NG So	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Defected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D Analyst (Morph	
A1203245-015A	166	03/14/12	03/27/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-016A	168	03/14/12	03/27/12	NG	G So	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					· · · · · · · · · · · · · · · · · · ·

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 28-Mar-12

Date Received: 3/20/2012 1:38:32 PM Report Date: 3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-2

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-017A	169	03/14/12	03/27/12	NG	NG So	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-018A	170	03/14/12	03/27/12	NG	NG Sc	
Asbestos Identi	Asbestos Identification (%)		(%)	Non-Fibrou	ıs Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	•		escription nology)	
A1203245-019A	171	03/14/12	03/27/12	NG	NG So		
Asbestos Identific	cation (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-020A	172	03/14/12	03/27/12	NG	Sc	oil
Asbestos Identi	ification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245 Date: 28-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Report Date: 3/28/2012 1:52:51 PM Reporting Limit (Visual %): 1 Grid Box Identification: 03-27-12A-2

Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
A1203245-021A	173	03/14/12	03/27/12	NG	So	1
Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Des Analyst (Morpho	

Date Received: 3/20/2012 1:38:32 PM

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	-
A1203245-022A	174	03/14/12	03/27/12	NG	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	•		escription rology)
A1203245-023A	175 & 176	03/14/12	03/27/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (		(%)

Amosite < 1

Sample # 023A & 024A combined per client request.

Lab Sample No.	•		Analysis Date	Analyst	Sample Description (Morphology)	
A1203245-025A	177	03/14/12	03/27/12	NG	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	l <1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 28-Mar-12

Date Received: 3/20/2012 1:38:32 PM

Report Date: 3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Dealyst (Morpho	
A1203245-026A	178	03/14/12	03/27/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (		(%)
NI TO 4	f					

None Detected < I

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Sample De Analyst (Morph		_	
A1203245-027A	179	03/14/12	03/27/12	NG	Se	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	
None Detected	<						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription rology)
A1203245-028A	180	03/14/12	03/27/12	NG	NG So	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	
1203245-029A	181	03/14/12	03/27/12	NG	Sc	oil
Asbestos Identific	ation (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

> Work Order No.: A1203245

Date: 28-Mar-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Date Received: 3/20/2012 1:38:32 PM

Non-Fibrous Material

Report Date: 3/28/2012 1:52:51 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12A-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-030A	182	03/14/12	03/27/12	NG	So	oil
Asbestos Ident	Asbestos Identification (%)		(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Client Sample Lab Sample Date Analysis Sample Description No. Identification Sampled Date Analyst (Morphology) A1203245-031A 183 03/14/12 03/27/12 NG Soil Asbestos Identification (%)Fibrous Material (%) Non-Fibrous Material (%)

< 1 None Detected

Lab Sample

No.

A1203245-032A

Client Sample Date Analysis Sample Description Identification Sampled Date (Morphology) Analyst 03/14/12 03/27/12 NG Soil

(%)

None Detected < [

Asbestos Identification

Lab Sample Client Sample Date Analysis Sample Description No. Identification Sampled Date Analyst (Morphology) A1203245-033A 185 03/14/12 03/27/12 KRP Soil Asbestos Identification (%)Fibrous Material (%)Non-Fibrous Material (%)None Detected < 1

Fibrous Material

184

(%)

(%)

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 28-Mar-12

Date Received: 3/20/2012 1:38:32 PM

Report Date: 3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-4

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst		le Description orphology)	
A1203245-034A	186	03/14/12	03/27/12	KRP	Se	oil .	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (		(%)	

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descriptio (Morphology)	
A1203245-035A	187	03/14/12	03/27/12	KRP	So	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203245-036A	188	03/14/12	03/27/12	KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription nology)
A1203245-037A	189	03/14/12	03/27/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

**Date:** 28-Mar-12 Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date Received: 3/20/2012 1:38:32 PM Report Date: 3/28/2012 1:52:51 PM

Grid Box Identification: 03-27-12A-4

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph		
A1203245-038A	190	03/14/12	03/27/12	KRP	Sc	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	•
A1203245-039A	191	03/14/12	03/27/12	KRP	So	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected						

Lab Sample No.	Client Sample Identification	Date	-Analysis Date	Analyst	Sample Descrip (Morphology		
A1203245-040A	192	03/14/12	03/27/12	KRP	Sc	1	
Asbestos Identif	ication (%)	Fibrous Material	(%)	Non-Fibrous	s Material	(%)	
None Detected	<1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	
A1203245-041A	193	03/14/12	03/27/12	KRP	So	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date Received: 3/20/2012 1:38:32 PM

Report Date: 3/28/2012 1:52:51 PM

Date: 28-Mar-12

Grid Box Identification: 03-27-12A-4

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	-
A1203245-042A	194	03/14/12	03/27/12	KRP	Sc	oil
Asbestos Identificat	ion (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	~		escription iology)
A1203245-043A	195	03/14/12	03/27/12	KRP	Se	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	1 <1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Sample Desc Analyst (Morpholo KRP Soil		•
A1203245-044A	196	03/14/12	03/27/12			oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph		
N1203245-045A	197	03/14/12	03/27/12	KRP S		oil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245 Date: 28-Mar-12

Analytical Method: TEM Semi-Quantitative Date Received: 3/20/2012 1:38:32 PM
Sample Type: Bulk Report Date: 3/28/2012 1:52:51 PM

Reporting Limit (Visual %): 1 Grid Box Identification: 03-27-12A-5

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203245-046A	198	03/14/12	03/27/12	KRP Soil		oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

Chrysotile <1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203245-047A	199	03/14/12	03/27/12	KRP	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material (%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	•
A1203245-048A	200	03/14/12	03/27/12	KRP	So	il
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (%		(%)

None Detected <1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-049A	201	03/14/12	03/27/12	KRP	Soil	
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	<1				·	

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

**Date:** 28-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:38:32 PM

Sample Type: Bulk

Report Date: 3/28/2012 1:52:51 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12A-5

Lab Sample No.		t Sample ification	Date Sampled	Analysis Date	Analyst (Morp		Description shology) Soil	
A1203245-050A		202	03/14/12	03/27/12				
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (9		(%)		

None Detected < [

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	( 1 82)	
A1203245-051A	203	03/14/12	03/27/12	KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (9		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled 03/14/12	Analysis Date 03/27/12	Analyst	Sample Description (Morphology) Soil	
A1203245-052A	204			KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material (		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	
A1203245-053A	206	03/14/12	03/27/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203245

Date:

28-Mar-12

Analytical Method: TEM Semi-Quantitative

Date Received:

3/20/2012 1:38:32 PM

Sample Type: Bulk

Report Date:

3/28/2012 1:52:51 PM

Reporting Limit (Visual %): 1

Grid Box Identification:

03-27-12A-6

Lab Sample

Client Sample Identification Sampled Analysis Date

Analyst

Sample Description

No. A1203245-054A

207

03/14/12

Date

03/27/12

KRP

(Morphology)

Sample not received by lab.

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203245-055A	208	03/14/12	03/27/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-056A	209	03/14/12	03/27/12	KRP	So	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203245-057A	210	03/14/12	03/27/12	KRP	So	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	1 <1					

<: Result is less than the indicated limit of detection.

# REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Vertise Lab Project No.



# Bureau Veritas North America, Inc.

Detroit Lab 22345 Roethel Drive 33 Novi, MI 48375 K. (800) 806-5887 (8 (248) 344-1770 (7 Fax (248) 344-2655 Fa

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
Kennesaw, GA 30144
(800) 252-8919
(770) 499-7500
(847) 726-3323

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Cay State 7th	١		Company / A/A / A/	
를 받는	68 A.V.		Address 1.49.0 J. o.f.	
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# REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only Bureau Veritas Lab Project No.	

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# Bureau Veritas North America, Inc. Detroit Lab

Chicago Lab 95 Oakwood R Lake Zurich, IL (888) 576-7522 (847) 726-3320 Fax (847) 726-5
Chicago Lab 3380 Chastein Meadows Pky, Ste 300 95 Oakwood R Kennesaw, GA 30144 Lake Zurich, IL (800) 252-9919 (888) 576-7522 (770) 499-7500 (847) 726-3320 Fax (770) 499-7511 Fax (847) 726-
Detroit Lab 22345 Roethel Drive Novi, Mi 48375 (800) 805-5887 (248) 344-1770 Fax (248) 344-2655

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# REQUEST FOR LABORATORY ANALYTICAL SE

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# Bureau Veritas North America, Inc.

Detroit Lab 22345 Reethel Drive Novi, MI 48375 (800) 806-5887 (248) 344-1770 Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
(847) 726-3320
Fax (770) 499-7511
Fax (847) 726-3323

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# REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritae Use Only Bureau Veritas Lab Project No.



# Bureau Veritas North America, Inc.

Detroit Lab 22345 Roethel Drive Novi, MI 48375 (800) 806-5887 (248) 344-1770 Fax (248) 344-255

Adenta Lab
3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
(847) 726-3320
Fax (770) 499-7511
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# REQUEST FOR LABORATORY ANALYTICAL SERVICES

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# Bureau Veritas North America, Inc.

Detroit Lab 22345 Roethel Drive 3 Novi, MI 48375 (800) 806-5887 (248) 344-1770 Fax (248) 344-2655 F

	Atlanta Lab
9	3380 Chastain Meadows Pky, Ste 300
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	(770) 499-7500
ß	Fax (770) 499-7511

	Chicago Lab
y, Ste 300	95 Oakwood Road
	Lake Zurich, IL 60047
	(888) 576-7522
	(847) 726-3320
	Fax (847) 706-1323

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LABORATORY COPY



April 02, 2012

Allen Bartels TERRACON 13910 West 96th Terrace Leneya, KS 66215

Bureau Veritas Work Order No. A1203246

Reference: 15119080

Dear Allen Bartels:

Bureau Veritas North America, Inc. received 126 samples on March 20, 2012 for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a sixty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Alan M. Segrave, P.G.

Director, Laboratory Services
Electronic signature authorized through password protection

cc: Ks Arnold

Bureau Veritas North America, Inc.

Health, Sajety, and Environmental Services 3380 Chastain Meadows Parkway, Suite 300 Kennesaw, GA 30144 Main: (770) 499-7701 Fax: (770) 499-7511 www.us.bureauseritis.com



Date: 02-Apr-12

### CASE NARRATIVE

CLIENT:

**TERRACON** 

Project:

15119080

Work Order No A1203246

Note: The lab did not receive A1203246-036A (client sample # 247), A1203246-067A (client sample # 287) and A1203246-097A (client sample #325).

The lab received the samples A1203246-125A (client sample # 335) and A1203246-126A (client sample # 337) that were not on the COC. These were added and analyzed per client request.

METHOD FOR SEMI-QUANTITATIVE ASBESTOS ANALYSIS OF BULK/SOIL SAMPLES USING TRANSMISSION ELECTRON MICROSCOPY (TEM)

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected unless otherwise noted.

Upon receipt in the laboratory, representative portions of the sample are examined under a stereomicroscope. Approximately 100 milligrams (mg) of the material is suspended in 5 milliliters (ml) of acetone. The mixture is ultrasonicated for three minutes. It is then centrifuged for three minutes, and the acetone supernatant is decanted to a level of 0.5 ml. The remaining material is resuspended, and a drop of the suspension is then placed on each of two carbon-coated copper grids (3mm diameter, 200 mesh). The sample grids are dried and then examined using TEM. At least five openings are examined on each grid at high magnification (15,000X). Asbestos structures containing fibers which meet a >3:1 length:width aspect ratio are identified using morphology, selected-area electron diffraction, and energy-dispersive x-ray spectroscopy. Fibers identified as asbestos are classified as chrysotile, crocidolite, amosite, tremolite-actinolite or anthophyllite.

Results are reported as "no asbestos detected (NAD)", "trace, <1% asbestos", or ">1% asbestos." Identification of asbestos type(s) is also reported.

The result of the analysis is a semi-quantitative assessment of asbestos presence and type.

### References

Bureau Veritas North America, Inc., February 20, 1989. Kennesaw, Georgia Laboratory. Internal Method.



CLIENT:

TERRACON

Project:

15119080

Work Order No A1203246

United States Environmental Protection Agency. Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246 **Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM Sample Type: Bulk Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1 Grid Box Identification: 03-27-12B-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203246-001A	211	03/15/12	03/30/12	KRP		
Asbestos Iden	ntification (%)	Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203246-002A	212	03/15/12	03/30/12	KRP	Soil
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material (%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	•
A1203246-003A	213	03/15/12	03/30/12	KRP	Se	oil
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrous Material		(%)
Chrysotile	2					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample I Analyst (Morp		
A1203246-004A	214	03/15/12	03/30/12	KRP	S	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Amosite	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203246-005A	215	03/15/12	03/30/12	KRP		
Asbestos Iden	tification (%)	(%) Fibrous Material		Non-Fibrou	s Material	(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Analyst Sample De (Morph	
A1203246-006A	216	03/15/12	03/30/12	KRP	Sc	ii
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	(	
A1203246-007A	217	03/15/12	03/30/12	KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	l <1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descript (Morpholog	
A1203246-008A	218	03/15/12	03/30/12	KRP	Soi1	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246 Date: 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-009A	219	03/15/12	03/30/12	KRP Soil		oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Amosite	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203246-010A	220	03/15/12	03/30/12	KRP	Soil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material (%)

None Detected <1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	•
A1203246-011A	221	03/15/12	03/30/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
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None Detected < 1

Lab Sample No.	Client Sampl Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl		
A1203246-012A	222	03/15/12	03/30/12	KRP	S	i1	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	i <1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

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Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-2

Lab Sample No.	Client Sample Identification	Daŧe Sampled	Analysis Date	s S Analyst		escription iology)
A1203246-013A	223	03/16/12	03/30/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1		,			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	
A1203246-014A	224	03/16/12	03/30/12	KRP	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					
Amosite	2		•			

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203246-015A	225	03/16/12	03/30/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					
Amosite	< 1	•				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date Analysi		Sample Descript (Morphology)	
A1203246-016A	226	03/16/12	03/30/12	KRP	So	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Amosite	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** *02-Apr-12* 

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-2

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample I alyst (Morp		
A1203246-017A	227	03/16/12	03/30/12	KRP	Sc	loil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	
Chrysotile	< 1						
Amosite	2						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descrip (Morphology	
A1203246-018A	228	03/16/12	03/30/12	KRP	Sc	il .
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	1 <1					

Lab Sample No.	Client Sample Identification	Date Sampled			Sample Description (Morphology)		
A1203246-019A	229	03/16/12	03/30/12	KRP	Se	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	i <1						

Lab Sample No.	Client Sample Identification		Analysis Date	Analyst	Sample Description (Morphology) Soil	
11203246-020A	230	03/16/12	03/30/12	KRP		
Asbestos Identific	cation (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Report Date: 4/2/2012 3:51:47 PM

Date Received: 3/20/2012 1:45:50 PM

Grid Box Identification: 03-27-12B-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descripti (Morphology)	
A1203246-021A	231	03/16/12	03/30/12	KRP	Sc	oil
Asbestos Identific	ation (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203246-022A	232	03/16/12	03/30/12	KRP	Soil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material (%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203246-023A	233	03/16/12	03/30/12	KRP		
Asbestos Identifica	ation (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected						···

None Detected

Lab Sample No	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-024A	234	03/16/12	03/30/12	KRP	So	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)
None Detected	< 1				· · · · · · · · · · · · · · · · · · ·	

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Sample Type: Bulk

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descripti (Morphology)	
A1203246-025A	235	03/16/12	03/30/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	-	
A1203246-026A	236	03/16/12	03/30/12	KRP	Sc	1	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Analyst Sample Descrip (Morphology KRP Soil	
A1203246-027A	237	03/16/12	03/30/12	KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)
N. D.	1 -1					

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morph		
A1203246-028A	238	03/16/12	03/30/12	KRP	Sc	il	
Asbestos Ident	ification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-3

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morpholog		
A1203246-029A	239	03/16/12	03/30/12	KRP	Soil	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material (	(%)	

< 1 None Detected

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	1	
A1203246-030A	240	03/16/12	03/30/12	KRP	Sc	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)	

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D Analyst (Morph		
A1203246-031A	241	03/16/12	03/30/12	NG	So	il	
Asbestos Identi	Asbestos Identification (%)		(%)	Non-Fibrou	s Material	(%)	
None Detected	<1						

None Detected

Lab Sample No.	±		Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-032A	242	03/16/12	03/30/12	NG	Se	ril .	
Asbestos Ident	ification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)	
None Detected	< 1					-	

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-4

**Date:** 02-Apr-12

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	~	
A1203246-033A	243	03/16/12	03/30/12	NG	Sc	jil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrous Material		(%)	
None Detected	i <1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	-	
A1203246-034A	244	03/16/12	03/30/12	NG	Sc	il	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	1 <1						

Lab Sample No.	Client Sa Identific	-	Date Sampled	Analysis Date	Analyst	Sample D (Morph	•	
A1203246-035A	246	)	03/16/12	03/30/12	NG	Sc	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)		
Chrysotile	2					<del>-</del>		

Chrysotile	2
Amosite	< 1

Lab Sample	Client Sample	Date	Analysis		Sample Description
No.	Identification	Sampled	Date	Analyst	(Morphology)
A1203246-036A	247	03/16/12	03/30/12	KRP	

Sample not received by lab.

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date: 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-4

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D nalyst (Morpl		
A1203246-037A	248	03/16/12	03/30/12	NG	Sc	il	
Asbestos Identif	ication (%)	6) Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	-
A1203246-038A	249	03/16/12	03/30/12	NG	NG Se	
Asbestos Iden	. ()	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected						

None Detected < 1
-------------------

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-039A	250	03/16/12	03/30/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-040A	253	03/16/12	03/30/12	NG	Sc	oil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrous Material		(%)	
None Detected	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.</p>



Client: TERRACON

Client Reference No.: 15119080

> Work Order No.: A1203246 02-Apr-12 Date:

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM Sample Type: Bulk Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1 Grid Box Identification: 03-27-12B-4

Client Sample Lab Sample Date Analysis Sample Description Identification No. Sampled Date Analyst (Morphology) A1203246-041A 254 03/30/12 03/16/12 NG Soil Asbestos Identification (%) Fibrous Material (%) Non-Fibrous Material (%) None Detected < 1

Lab Sample Client Sample Sample Description Date Analysis Identification No. Sampled Date Analyst (Morphology) A1203246-042A 255 03/16/12 03/30/12 NG Soil Asbestos Identification (%) Fibrous Material (%) Non-Fibrous Material (%) None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-043A	256	03/16/12	03/30/12	NG	So	il
Asbestos Identif	ication (%)	Fibrous Material	(%)	Non-Fibrous Material		(%)
None Detected	<1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
11203246-044A	257	03/16/12	03/30/12	NG	Sc	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	i <1	Marie Control of the					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-5

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Descrip (Morphology	
A1203246-045A	258	03/16/12	03/30/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)

None Detected

< [

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morpho	
A1203246-046A	259	03/16/12	03/30/12	NG	Soi	I
Asbestos Identi	ification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
Nana Datastad	.e. 1					

None Detected	<
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Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	•
A1203246-047A	260	03/16/12	03/30/12	NG	So	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	< 1					

Ν	one	Detected	<
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Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	
A1203246-048A	263	03/16/12	03/30/12	03/30/12 NG		il
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	i <1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-5

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203246-049A	264	03/16/12	03/30/12	NG	Soil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material (%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-050A	265	03/16/12	03/30/12 NG	Soil		
Asbestos Ident	ification (%)	Fibrous Material	(%)	Non-Fibrou	s Material (%)	
Nona Datastad	~ 1		,			

< 1 None Detected

Lab Sample No.	Client Sar Identifica	•	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription hology)	
A1203246-051A	266		03/16/12	03/30/12	NG	Se	oil	
Asbestos Iden		)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
NT D-+	1						·	

< 1 None Detected

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-052A	267	03/16/12	03/30/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-6

-	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	-
A1203246-053A	268	03/16/12 03/3	03/30/12	NG	Sc	il
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	*	
A1203246-054A	269	03/16/12	03/30/12	NG		Soil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph		
A1203246-055A	270	03/16/12	03/30/12	NG	Sc	il	
Asbestos Iden	Asbestos Identification (%)		(%)	Non-Fibrous Material		(%)	

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	•
A1203246-056A	273	03/16/12	03/30/12	NG	Sc	nîl
Asbestos Ident	Asbestos Identification (%)		(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246 **Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-6

•	Client Sam Identificati		Analysis Date	Analyst	Sample De (Morph	-
A1203246-057A	274	03/16/12	03/30/12	NG	Sc	il
Asbestos Iden	Asbestos Identification (%)		(%)	Non-Fibrous Material (		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	-	
A1203246-058A	275	03/16/12	03/30/12	NG	Soi	il	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)	
Amosite	<1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	•	
A1203246-059A	276	03/16/12	03/30/12	NG	So	il	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	is Material	(%)	
None Detected	l <1				·		

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph		
A1203246-060A	277	03/16/12	03/30/12	NG	Sc	oil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	1 <1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-6

-		ent Sample ntification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	-	
A1203246-061A		278	03/16/12	03/30/12	NG	So	ni l	
Asbestos Iden	Asbestos Identification (%		(%) Fibrous Material		Non-Fibrous Material		(%)	

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morpho	
A1203246-062A	279	03/16/12	03/30/12	NG	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203246-063A	280	03/16/12	03/30/12	NG		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription rology)
A1203246-064A	283	03/16/12	03/30/12	NG	So	oîl
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

< 1

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-7

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl		
A1203246-065A	284	03/16/12	03/30/12	NG	Sc	.1	
Asbestos Iden	Asbestos Identification (%)		(%)	Non-Fibrous Material		(%)	

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	-	
A1203246-066A	286	03/16/12	03/30/12	NG	So	il	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Mana Datastas	1 ~ 1						

None Detected < i

Lab Sample	Client Sample	Date	Analysis		Sample Description
No.	Identification	Sampled	Date	Analyst	(Morphology)
A1203246-067A	287	03/16/12	03/30/12	KRP	

### Sample not received by lab.

Lab Sample Client San No. Identificat		•	Date Sampl		Analysis Date	Analyst	Sample D (Morpl	-
A1203246-068A	288	}	03/16/	12	03/30/12	NG	Se	oil
Asbestos Identification (%)		Fibrous N	Material	(%)	Non-Fibrous	s Material	(%)	
None Detected	d <	1	-					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Date: 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-7

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	-
A1203246-069A	289	03/16/12	03/30/12	NG	NG Sc	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	<1				,	

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	-
A1203246-070A	290	03/16/12	03/30/12	NG	So	il
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected

< 1

•		nt Sample itification	Date Sampled	Analysis Date	•		escription iology)
A1203246-071A		293	03/16/12	03/30/12	NG	Sc	oil
Asbestos Iden	Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected

< 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-072A	294	03/16/12	03/30/12	NG	Soil		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Amosite	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-8

<del>-</del>		nt Sample tification	Date Sampled	Analysis Date	Analyst	Sample Descr (Morpholo	
A1203246-073A		295	03/16/12	03/30/12	NG	Sc	il
	Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

Amosite < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203246-074A	296	03/16/12	03/30/12	NG	Sc	il
Asbestos Iden	Asbestos Identification (%)		(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-075A	297	03/16/12	03/30/12	NG	Sc	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-076A	298	03/16/12	03/30/12	NG	Sc	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	
Amosite	< 1				·		

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246 **Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-8

Lab Sample No.	Client Sampl Identification	Date Sampled	Analysis Date	Analyst	Sample Desc (Morphol		
A1203246-077A	299	03/16/12	03/30/12	NG	Soil	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-078A	300	03/16/12	03/30/12	NG	Sc	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription nology)
A1203246-079A	303	03/16/12	03/30/12	NG Sc		oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	Non-Fibrous Material	
Amosite	<1					·

Lab Sample No.	Client Sample Identification	Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-080A	304	03/16/12	03/30/12	NG S		oil	
Asbestos Ident	Asbestos Identification (%)		(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-8

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203246-081A	305	03/16/12	03/30/12	NG	Soil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material (%)

< 1 None Detected

Lah Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph		
A1203246-082A	306	03/16/12	03/30/12	NG	So	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	,		Sample Descript (Morphology)	
A1203246-083A	307	03/16/12	03/30/12	NG	So	oil		
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)		
None Detected	< 1							

None Detected

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Analyst Sample Descr (Morpholo NG Soil	
N1203246-084A	308	03/16/12	03/30/12	NG		
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	Non-Fibrous Material	
None Detected	i <1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date**: 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-9

<del>-</del>		nt Sample ntification	Date Sampled	Analysis Date	Analyst	Sample De (Morph	~	
A1203246-085A		309	03/16/12	03/30/12	NG	So	oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)		

None Detected < 1

Lab Sample No.		Sample ification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph		
A1203246-086A	3	310	03/16/12	03/30/12	NG	Sc	oil	
Asbestos Iden	Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Nama Datastad		~ 1						

< 1 None Detected

Lab Sample No.		nt Sample tification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription nology)	
A1203246-087A		313	03/16/12	03/30/12	NG	NG So		
Asbestos Identi	Asbestos Identification (		Fibrous Material	(%)	Non-Fibrous Material		(%)	
None Detected		< 1				· · · · · · · · · · · · · · · · · · ·		

None Detected

Lab Sample No.	Client Sample Identification	ntification Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-088A	314	03/16/12	03/30/12	NG	Sc	il	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	i <1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-9

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203246-089A	315	03/16/12	03/30/12	NG		
Ashestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)
Chrysotile	< 1					

Amosite < 1

-		Client Sample Identification		Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-090A	316		03/16/12	03/30/12	NG	Sc	oil	
Asbestos Iden	tification (%	6)	Fibrous Material	(%)	Non-Fibro	ıs Material	(%)	
None Detected	l < i	1		н				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De lyst (Morph		
A1203246-091A	317	03/16/12	03/30/12	NG	Sc	oil	
Asbestos Identifi	cation (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)	
None Detected	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl		
A1203246-092A	318	03/16/12	03/30/12	NG	Sc	i1	
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-10

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample De (Morphe	-	
A1203246-093A	319	03/16/12	03/30/12	KRP	So	Soil	
Asbestos Iden	Asbestos Identification (%)		(%)	Non-Fibrous Material		(%)	

Chrysotile < 1 Amosite < 1

Lab Sample No.	Client Sam Identification	•	Date Sampled	Analysis Date	Analyst	Sample De alyst (Morph		
A1203246-094A	320		03/16/12	03/30/12	KRP	Sc	oil	
Asbestos Ident	ification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1							

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)
A1203246-095A	323	03/16/12	03/30/12	KRP	Soîl
Asbestos Identi	fication (%)	Fibrous Material	(%)	Non-Fibrou	s Material (%)
Amosite	< 1				

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	escription nology)
A1203246-096A	324	03/16/12	03/30/12	KRP	S	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

> Work Order No.: A1203246 02-Apr-12 Date:

Analytical Method: TEM Semi-Quantitative

325

Sample Type: Bulk

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-13

03/30/12

Date Received:

KRP

3/20/2012 1:45:50 PM

4/2/2012 3:51:47 PM Report Date:

Lab Sample Client Sample Date Analysis Sample Description No. Identification Sampled Date (Morphology) Analyst A1203246-097A

03/16/12

### Sample not received by lab.

Lab Sample No.		nt Sample stification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	•
A1203246-098A		326	03/16/12	03/30/12	KRP	So	oil
Asbestos Identi	ification	(%)	Fibrous Material	(%)	Non-Fibrous Material		(%)
31 73 1 1							

< 1 None Detected

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl		
A1203246-099A	327	03/16/12	03/30/12	KRP	So	oil .	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Chrysotile	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Des (Morpho	
A1203246-100A	328	03/16/12	03/30/12	KRP	Soi	1
Asbestos Identi	fication (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246 **Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM Reporting Limit (Visual %): 1 Grid Box Identification: 03-27-12B-10

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph		
A1203246-101A	329	03/16/12	03/30/12	/12 KRP	KRP Soil		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Chrysotile	< 1						
Amosite	2						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-102A	330	03/16/12	03/30/12	KRP	Sc	oil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	1 <1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	-	
A1203246-103A	333	03/16/12	03/30/12	KRP	Sc	oi l	
Asbestos Ident	ification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Chrysotile	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203246-104A	334	03/16/12	03/30/12	KRP	Se	oil
Asbestos Identificati	on (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					
Amosite	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identi:	fication: (	J3-27-	12B-11

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	-
A1203246-105A	336	03/16/12	03/30/12	KRP	So	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					· · · · · · · · · · · · · · · · · · ·

Amosite < 1

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	_
A1203246-106A	338	03/16/12	03/30/12	KRP	S	oil
Asbestos Identi	fication (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	
A1203246-107A	339	03/16/12	03/30/12	KRP	So	oil
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					
Amosite	2					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl		
1203246-108A	340	03/16/12	03/30/12	KRP	Se	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)	
Chrysotile	2						
Amosite	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246 **Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Date Received: 3/20/2012 1:45:50 PM Sample Type: Bulk Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-11

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	-
A1203246-109A	343	03/16/12	03/30/12	KRP	Se	oil
Asbestos Ident		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Do (Morph	-
A1203246-110A	344	03/16/12	03/30/12	KRP	Sc	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	•
A1203246-111A	345	03/16/12	03/30/12	KRP	Sc	oil
Asbestos Ident	ification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203246-112A	346	03/16/12	03/30/12	KRP	Soil	
Asbestos Identi	ification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Amosite

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Reporting Limit (Visual %): 1

**Date:** 02-Apr-12

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Grid Box Identification: 03-27-12B-11

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morph	
A1203246-113A	347	03/16/12	03/30/12	KRP	Soil	
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	<1			· · · · · · · · · · · · · · · · · · ·		

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203246-114A	348	03/16/12	03/30/12	KRP	So	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
None Detected	1 <1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date 03/30/12	Analyst	Sample Description (Morphology) Soil	
A1203246-115A	349	03/16/12		KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)
Chrysotile	2					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-116A	350	03/16/12	03/30/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

< 1

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

Date: 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-12

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample D (Morpl	
A1203246-117A	353	03/16/12	03/30/12	KRP	Soil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ous Material	
Chrysotile	< 1					
Amosite	2					

Lab Sample No.	Client Sample Identification	-		Analyst	Sample Description (Morphology)	
A1203246-118A	354	03/16/12	03/30/12	KRP	KRP So	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Chrysotile	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
A1203246-119A	355	03/16/12	03/30/12	KRP So		oil	
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	ıs Material	(%)	
None Detected	< 1						

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology) Soil	
A1203246-120A	356	03/16/12	03/30/12	KRP		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)
Amosite	< 1					

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

**Date:** 02-Apr-12

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Report Date: 4/2/2012 3:51:47 PM

Date Received: 3/20/2012 1:45:50 PM

Reporting Limit (V	Visual %): 1		Grid Box		03-27-12B-12	
Lab Sample No.	Client Sampl Identification		Analysis Date	Analyst		escription hology)
A1203246-121A	357	03/16/12	03/30/12	KRP	S	oil
Asbestos Iden	tification (%)	Fibrous Material	(%)	Non-Fibro	us Material	(%)
None Detected	d <1					

Client Sample Identification	Date Sampled	Analysis Date	Analyst	( <u>-</u>	
358	03/16/12	03/30/12	KRP		
on (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
	358	358 03/16/12	358 03/16/12 03/30/12	358 03/16/12 03/30/12 KRP	358 03/16/12 03/30/12 KRP So

None Detected < 1

Lab Sample No.	Client Sample Identification	Date Sampled			Sample D (Morpl	•
A1203246-123A	359	03/16/12	03/30/12	KRP	So	oil
Asbestos Ident	tification (%)	Fibrous Material	(%)	Non-Fibrou	s Material	(%)
None Detected	< 1					

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)		
11203246-124A	360	03/16/12	03/30/12	KRP	KRP Soil		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
Amosite	< 1						

<sup>&</sup>lt;: Result is less than the indicated limit of detection.



Client: TERRACON

Client Reference No.: 15119080

Work Order No.: A1203246

02-Apr-12 Date:

Analytical Method: TEM Semi-Quantitative

Sample Type: Bulk

Date Received: 3/20/2012 1:45:50 PM

Report Date: 4/2/2012 3:51:47 PM

Reporting Limit (Visual %): 1

Grid Box Identification: 03-27-12B-13

Lab Sample No.	Client Sample Identification	Date Sampled	Analysis Date	Analyst	Sample Description (Morphology)	
A1203246-125A	335	03/16/12	03/30/12	KRP Soil		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrous Material		(%)

None Detected

< 1

Lab Sample No.	Client Sample Identification	Dunpie		Analyst	-	Description rphology)	
A1203246-126A	337	03/16/12	03/30/12	KRP	Soil		
Asbestos Identification (%)		Fibrous Material	(%)	Non-Fibrou	s Material	(%)	
None Detected	< 1						

<: Result is less than the indicated limit of detection.

Analyst(s) Name/Date:

4/2/2012

For Bureau Veritas Lee Only Bureau Veritas Lab Project No.



# Bureau Veritas North America, Inc.

22345 Rodel Drive 3380 Chasts Novi, MI 48375 Kennesaw, (800) 806-5887 (800) 252-98 (248) 344-1770 (770) 499-75 Fax (248) 344-2655 Fax (770) 499

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
Kennesaw, GA 30144
(800) 252-8919
(770) 499-7510
(847) 726-3320
Fax (770) 499-7511
Fax (847) 726-3323

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For Bureau Veritas Use Only Bureau Veritas Lab Project No.



# Bureau Veritas North America, Inc.

Detroit Lab 22345 Roethel Drive Novi, MI 48375 (800) 806-5887 (248) 344-1770 Fax (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
Kennesaw, GA 30144 Lake Zurich, IL 60047
(800) 222-9919 (888) 576-7522
(770) 499-7500 (847) 726-3320
Fax (770) 499-7511 Fax (847) 726-3323

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For Bureau Verttas Use Only Bureau Verttas Lab Project No.



# Bureau Veritas North America, Inc.

22345 Roethel Drive Novi, MI 48375 (800) 806-5887 (248) 344-1770 Fax (248) 344-2655 Detroit Lab

Atlanta Lab
3380 Chastain Meadows Pky, Ste 300 95 Oakwood Road
Kennesaw, GA 30144 Lake Zurich, IL 60047
(800) 252-9919 (870) 499-7510 (847) 726-3320
Fax (770) 499-7511 Fax (847) 726-3323

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<b>nc.</b> Chicago Lab	95 Oskwood Road Lake Zurich, IL 60047 (888) 576-7522	(847) 726-3320 Fax (847) 726-3323

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