

# Request for Environmental and IH Laboratory Analytical Services

<b>ATTENTION TO:</b>				Purchase Order No.:		Client Job No.: <b>Rock Hill Quarry</b>									
<b>Lab Use Only</b>	Project No.: Client No.:		Date Logged In: Logged In By:		<b>Date Results Needed</b>	Rush Charges Authorized? (check one)			<input type="checkbox"/> YES <input type="checkbox"/> NO						
<b>Report Results To</b>	Name: <b>Andrew Gutshall</b>		Company: <b>Hanson Aggregates Pa, LLC</b>		<b>Drinking Water Sample Only</b>	Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):									
	Address: <b>7660 Imperial Way</b>		City, State, Zip: <b>Allentown, PA 18195</b>			System ID #: <b>N/A</b>	DOH Source #: <b>N/A</b> <span style="float:right">N/A</span>								
	Phone: <b>610-366-4819</b> Fax: _____		Email Results To: <a href="mailto:Andrew.Gutshall@LehighHanson.com">Andrew.Gutshall@LehighHanson.com</a>		<b>Chemistry Analysis Key</b>	Multiple Sources #: <b>N/A</b>									
	Sample Purpose: <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/> N/A		Preservation:			Matrix:		SW=Surface Water		Container:					
	Unpres 4°C HNO <sub>3</sub> Other		H <sub>2</sub> SO <sub>4</sub> HCl NaOH Na <sub>2</sub> SO <sub>4</sub>			WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract		DW=Drinking Water O=Oil X=Other		P=Plastic G=Glass W=Wipe A=Air (filter or tube)					
<b>Invoice To</b>	Name: _____		Company: _____ Email: _____		If a hard copy of invoice is needed, check here <input type="checkbox"/>										
<b>Special Instructions</b>		Address: _____		City, State, Zip: _____		Phone: _____ Fax: _____		<b>Analysis Requested</b>							
<b>Invoice per project setup with Drew Van Orden</b>															
<b>Client Sample ID</b>	<b>Sample Description</b>	<b>Sample Date</b>	<b>Sample Time</b> Start Stop		<b>Wipe Area / Air Volume</b>	<b>Sample Location (Please specify if NY state)</b>	<b>PLM/TEM EPA 600/R-93/116 (see Attach. 1)</b>			<b>Pres. Upon Receipt (Y/N)</b>	<b>Preservation</b>	<b>Matrix</b>	<b>Container Type</b>	<b>pH</b>	<b>No. Containers</b>
1	2B Aggregate	4/18	11:00	Crab	N/A		X			N/A	N/A	X	P	N/A	1
2	2B Aggregate	4/18	11:10	↓	N/A		X			N/A	N/A	X	P	N/A	1
3	2B Aggregate	4/18	11:20	↓	N/A		X			N/A	N/A	X	P	N/A	1
4	2B Aggregate	4/18	11:30	↓	N/A		X			N/A	N/A	X	P	N/A	1
5	2B Aggregate	4/18	11:40	↓	N/A		X			N/A	N/A	X	P	N/A	1
<b>Chain of Custody</b>	Relinquished By (Signature): <i>[Signature]</i>		Date: <b>4/18/19</b> Time: <b>1530</b>		<b>Chain of Custody</b>		Received By (Signature): _____		Date: _____ Time: _____						
	Relinquished By (Print Name): <i>John H. Yachite</i>		Relinquished To: _____				Received By (Print Name): _____		Relinquished To: _____						
	Company Name: <i>Forthres</i>		Method of Shipment: <i>FedEx</i>				Company Name: _____		Method of Shipment: _____						
<b>Chain of Custody</b>	Relinquished By (Signature): _____		Date: _____ Time: _____		<b>Chain of Custody</b>		Received By (Signature): _____		Date: _____ Time: _____						
	Relinquished By (Print Name): _____		Relinquished To: _____				Received By (Print Name): _____		Relinquished To: _____						
	Company Name: _____		Method of Shipment: _____				Company Name: _____		Method of Shipment: _____						

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

724.325.1776 Phone  
724.733.1799 Fax

Washington  
Columbia Basin Analytical Laboratories  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax



# Request for Environmental and IH Laboratory Analytical Services

<b>ATTENTION TO:</b>					Purchase Order No.:			Client Job No.: <b>Rock Hill Quarry</b>								
<b>Lab Use Only</b>	Project No.:		Client No.:		<b>Date Results Needed</b>	Rush Charges Authorized? (check one)			<input type="checkbox"/> YES			<input type="checkbox"/> NO				
	Date Logged In:		Logged In By:													
<b>Report Results To</b>	Name: <b>Andrew Gutshall</b>				<b>Drinking Water Sample Only</b>	Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):										
	Company: <b>Hanson Aggregates Pa, LLC</b>					System ID #: <b>N/A</b>			DOH Source #: <b>N/A</b>			<b>N/A</b>				
	Address: <b>7660 Imperial Way</b>					Multiple Sources #s: <b>N/A</b>										
	City, State, Zip: <b>Allentown, PA 18195</b>					Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/> N/A										
Phone: <b>610-366-4819</b>		Fax:		<b>Chemistry Analysis Key</b>	<b>Preservation:</b>		<b>Matrix:</b>		<b>SW=Surface Water</b>		<b>Container:</b>					
Email Results To:					Unpres 4°C		HCl		GW=Groundwater		DW=Drinking Water		P=Plastic			
<a href="mailto:Andrew.Gutshall@LehighHanson.com">Andrew.Gutshall@LehighHanson.com</a>					HNO <sub>3</sub>		NaOH		S=Soil/Sludge		O=Oil		W=Wipe			
					Other		Na <sub>2</sub> SO <sub>4</sub>		E=Extract		X=Other		A=Air (filter or tube)			
<b>Invoice To</b>	Name:		If a hard copy of invoice is needed, check here <input type="checkbox"/>		<b>Analysis Requested</b>											
	Company:		Email:													
	Address:															
City, State, Zip:				<b>PLM/TEM EPA 600/R-93/116 (see Attach. 1)</b>	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers						
Phone:		Fax:														
<b>Special Instructions</b>		<b>Invoice per project setup with Drew Van Orden</b>														
Client Sample ID	Sample Description	Sample Date	Sample Time		Wipe Area / Air Volume	Sample Location (Please specify if NY state)										
			Start	Stop												
6	2B Aggregate	4/18	11:50	Grab	N/A		X				N/A	N/A	X	P	N/A	1
7	2B Aggregate	4/18	12:00		N/A		X				N/A	N/A	X	P	N/A	1
8	2B Aggregate	4/18	12:10		N/A		X				N/A	N/A	X	P	N/A	1
9	2B Aggregate	4/18	12:20		N/A		X				N/A	N/A	X	P	N/A	1
10	2B Aggregate	4/18	12:30		N/A		X				N/A	N/A	X	P	N/A	1
<b>Chain of Custody</b>		Relinquished By (Signature): <i>John A. Yenchuk</i>		Date: <b>4/18/19</b>		Time: <b>1530</b>		<b>Chain of Custody</b>		Received By (Signature):		Date:		Time:		
		Relinquished By (Print Name): <i>John A. Yenchuk</i>		Relinquished To:						Received By (Print Name):		Relinquished To:				
		Company Name: <i>Earthree</i>		Method of Shipment: <i>FedEx</i>						Company Name:		Method of Shipment:				
<b>Chain of Custody</b>		Relinquished By (Signature):		Date:		Time:		<b>Chain of Custody</b>		Received By (Signature):		Date:		Time:		
		Relinquished By (Print Name):		Relinquished To:						Received By (Print Name):		Relinquished To:				
		Company Name:		Method of Shipment:						Company Name:		Method of Shipment:				

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

Washington  
Columbia Basin Analytical Laboratories  
2710 North 20th Avenue  
Pasco, WA 99301

724.325.1776 Phone  
724.733.1799 Fax

509.545.4989 Phone  
509.544.6010 Fax



## Attachment 1

### Sample Analysis Procedures and Methods

For obtaining a representative sample from a large bulk sample, the AASHTO procedures for reducing the sample should be used. The subsequent analyses of the submitted samples will follow a three step procedure: 1) Basic microscopic analysis to assess the presence of asbestiform mineral habitat; 2) Polarized Light Microscopy (PLM) to determine the presence and asbestos mineral type, if present; and, 3) Should positive results be indicated by PLM, follow-up Transmission Electron Microscopy (TEM) analysis will be completed to confirm the minerals present and their morphology. The techniques and methods to be employed in sample analysis are provided below:

- A geologist will inspect hand and core samples initially using a stereo binocular microscope, with magnification ranging from 10x to 60x. Using a fine steel pick (dental pick) the geologist will scrape the surface of the suspect mineralization to determine if any of the minerals display typical asbestiform habit and characteristics such as fiber bundles, splayed ends, or matted or fibrous masses.
- Further examination of the sample will then be conducted using the Polarized Light Microscope (PLM) using EPA 600/R-93/116.
- If asbestiform minerals are found, representative samples will be further analyzed by Transmission Electron Microscopy per EPA 600/R-93/116 to confirm mineral identification and morphology.
- Where appropriate, the microscopic PLM and/or TEM analyses will include a count of the asbestiform fibers, representative digital images, and measurements of the width and length dimensions of found fibers counted.

Water samples will be collected as grab samples and will be analyzed by TEM per EPA 100.2.

The samples will be analyzed using the above procedures by RJ Lee Group, which is accredited by the American Industrial Hygiene Association and is in the NIST National Voluntary Laboratory Accreditation Program for asbestos analysis. RJ Lee Group has mineralogical expertise and has vast experience to detect asbestos fibers in the natural environment (e.g. rocks, soils, water, etc.).