Request for Environmental and IH Laboratory Analytical Services

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ATTENTION TO:							Purchase Order No.: Client Job No.: Rock Hill Quarry												
Lab Use	7 - John Marketter Control of the Co						Date Results		1 1	- A =		Rush Cha		□ YES					
Only	Date Logged In:	Logged In	By:				Needed)+d.	TA		Authorize (check or		NO					
Report Results To	Name: Andrew Gutshall						Drinking Water Sample Only	Sample Purpose: Information Regulatory Accreditation (please list below):											
	Company: Hanson Aggregates Pa, LLC Address: 7660 Imperial Way							System ID #: N/A					_						
	City, State, Zip: Allentown, PA 18195							DOH Source #: N/A					N/A						
	Phone: 610-366-4819 Fax:																		
	Email Results To:							Sample Purpose: A □ B □ Other □ N/A Preservation: Matrix: Container:											
	Andrew.Gutshall@LehighHanson.com							Unpres H ₂ SO ₄ WW=Wastewater					SW=Su	SW=Surface Water					
								4°C	°C HCI GW=Groundwater					DW=Drinking Water G=Glass O=Oil W=Wipe					
Invoice To	Name: If a hard copy of invoice is needed, check here							HNO ₃	HNO ₃ NaOH S=50II/3IIdge Other Na ₂ SO ₄ E=Extract				X=Other X=A=Air (filter or tube)						
	Company: Email:							Other											
	Address:								Analysis Requested			sted		(Ž		T			
	City, State, Zip: Phone: Fax:								- 8					3	_		و ا		Ş
Special	T CAX.								9 EP					Seip	tior	×	ΤŽ		iner
Instructions									Per EPA od 100.2	TOTAL SECTION AND ASSESSMENT ASSE				Re	erva	Matrix	iner	Hd	onta
Client Sample ID		Sample Description	Commis	Sampl	ple Time					n de la constitución de la const				Upon Receipt (Y/N)	Preservation	2	Container Type		No. Containers
			Sample Date	Start	Stop	Wipe Area / Air Volume	Sample Location specify if NY s		NOA					Pres. L	-		ŭ		Z
1		NPDES Outfall	4/10	District			, ,							P.	<u> </u>				
			4/18	9:41	Grab	N/A	N/A		V						Ice	SW	Р	7.0	1
2		Sed. Trap 2	4/18	9:55	Grab	N/A	N/A		V						Ice	SW	Р	73	1
3		Sed. Basin 2	4/18	10112	Grab	N/A	N/A		V			***************************************			Ice	SW	Р	77	1
4		Sed. Basin 1	4/18	10:25	Grab	N/A	N/A		V	***************************************					Ice	SW	Р	7.8	1
5		Quarry Pit	4/18	10:50	Grab	N/A	N/A		V			***************************************			Ice	SW	Р	8.0	1
6		Sed. Trap 1	4/18	11:05	Grab	N/A	N/A		V						Ice	SW	Р	8.2	1
7		Sed. Trap 3	4/18	11:15	Grab	N/A	N/A		V						Ice	SW		8.0	1
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	Company Name: Carthres					Received By (Print Name): LIZVAVLE Company Name: RSLG					Relinquished To: Method of Shipment:								
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Custody	Relinquished By (Print	Relinquished To:				Chain of Custody	Received By (Signature): Received By (Print Name):						Date: Time: Relinguished To:						
	Company Name:	Method of Shipment:					Company Name:					Method of Shipment:							
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Pennsylvania - HQ Monroeville, PA 15146

350 Hochberg Road

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Columbia Basin Analytical Laboratories

2710 North 20th Avenue Pasco, WA 99301

724.325.1776 Phone 724.733.1799 Fax

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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.).