

ATLANTIC ALLIANCE CONFERENCE

**CAMBORNE SCHOOL OF MINES
UNIVERSITY OF EXETER IN CORNWALL**



**OCCUPATIONAL HEALTH
-- U.S. Health Program --**



Building

Materials

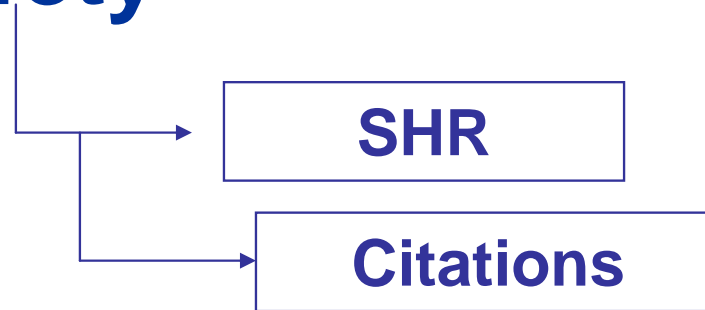
America

The logo for Hanson Safety, featuring a 3x3 grid of squares in blue and orange to the left of the word "Hanson" in a bold, blue, sans-serif font, followed by the word "Safety" in a white, outlined, sans-serif font with a blue drop shadow.

Hanson Safety

If you can't measure it you can't manage it

● **Safety**



Safety



Consolidated SAFETY	Hours Worked YTD	Total Injuries			Lost Time Injuries			Fatalities	Lost Work Days			YTD Incidence Rates (Per 200,000 Hours)							
		Month	YTD	PY	Month	YTD	PY		Total Case (TCI)			Lost Time (LTI)			Lost Day (LDI)				
									YTD	Target	PY	YTD	Target	PY	YTD	PY			
Aggregates																			
Midwest Region	2,068,805	1	41	25	0	7	7		0	118	429	4.0	2.0	2.4	0.7	0.6	0.7	11	41
Northeast Region	2,792,775	1	25	34	0	5	13		0	42	178	1.8	2.0	2.6	0.4	0.6	1.0	3	13
Southeast Region	1,499,950	1	14	15	0	2	5		0	25	317	1.9	2.0	1.7	0.3	0.6	0.6	3	37
HAE Corporate Office	120,895	0	0	0	0	0	0		0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
East Total	6,482,425	3	80	74	0	14	25		0	185	924	2.5		2.3	0.4		0.8	6	28
Mid-Pacific Region	382,116	0	7	7	0	7	6		0	202	807	3.7	3.0	2.8	3.7		2.4	106	323
Pacific Southwest Region	1,669,155	2	32	21	1	27	18		17	225	258	3.8	3.0	2.5	3.2		2.1	27	30
Permanente Cement	570,467	0	10	14	0	5	6		0	416	703	3.5	3.0	5.0	1.8		2.1	146	250
Mountain Region	1,134,804	1	25	30	0	0	10		0	0	284	4.4	3.5	5.4	0.0		1.8	0	51
HAW Corporate	77,004	0	0	1	0	0	0		0	0	0	0.0		2.5	0.0		0.0	0	0
HAC Aggregates	2,082,368	1	30	42	0	7	12	1*	0	119	126	2.9	3.0	3.8	0.7	1.0	1.1	11	11
West Total	3,833,546	3	74	73	1	39	40	1	17	843	2,052	3.9		3.7	2.0		2.0	44	104
Total Aggregates	12,398,339	7	184	189	1	60	77	1	17	1,147	3,102	3.0	3.5	3.0	1.0		1.2	19	49
Building Products																			
Eastern Region	779,412	3	19	15	1	3	3		31	183	100	4.9		3.2	0.8		0.6	47	21
Central Region	1,475,359	4	17	16	2	4	5		18	43	87	2.3		2.3	0.5		0.7	6	13
North Central Region	1,293,558	1	29	48	0	4	8		0	149	252	4.5		8.0	0.6		1.3	23	42
Southwest Region	1,130,334	0	14	21	0	4	5		0	319	342	2.5		2.9	0.7		0.7	56	47
Southeast Region	1,158,143	3	35	35	3	7	1		31	83	11	6.0		6.7	1.2		0.2	14	2
Spancrete Pacific	298,947	1	6	3	0	2	1		0	14	4	4.0		1.8	1.3		0.6	9	2
Northeast	607,300	0	20	25	0	5	1		0	191	47	6.6		12.1	1.6		0.5	63	23
South Central (Choctaw)	876,217	0	12	40	0	4	13		0	22	1116	2.7		7.7	0.9		2.5	5	214
HP&P Corporate Office	162,914	0	0	0	0	0	0		0	0	0	0.0		0.0	0.0		0.0	0	0
Total Pipe & Products	7,782,184	12	152	203	6	33	37		80	1,004	1,959	3.9		5.1	0.8		0.9	26	49
East Roof Tile	696,729	2	23	16	0	1	0		0	66	0	6.6		4.8	0.3		0.0	19	0
West Roof Tile	663,824	2	11	18	1	1	2		9	9	19	3.3		5.5	0.3		0.6	3	6
Total Roof Tile	1,360,553	4	34	34	1	2	2		9	75	19	5.0		5.1	0.3		0.3	11	3
Northern Region	778,738	3	30	24	0	6	8	0	0	54	161	7.7		6.3	1.5		2.1	14	42
Midwest Region	422,540	3	28	41	1	8	14		15	88	307	13.3		19.6	3.8		6.7	42	147
Southeast Region	1,612,212	6	75	70	2	12	11		13	177	172	9.3		8.4	1.5		1.3	22	21
South Central Region	899,037	1	18	18	1	6	7		3	200	327	4.0		4.0	1.3		1.5	44	72
HBT Corporate Office	40,410	0	0	1	0	0	0		0	0	0	0.0		9.6	0.0		0.0	0	0
Total Brick	3,752,937	13	151	154	4	32	40		31	519	967	8.0		8.1	1.7		2.1	28	51
Total Building Products	12,895,674	29	337	391	11	67	79	0	120	1,598	2,945	5.2	4.8	6.0	1.0	0.8	1.2	25	45
Total All Operations	25,294,013	36	521	580	12	127	156	1*	137	2,745	6,047	4.1		4.5	1.0		1.2	22	47

Safety



OSHA / MSHA	Number of Inspections			Total Citations			S & S Citations				Fines (\$)			Citations per Inspection			
	Month	YTD	PY	Month	YTD	PY	Month		YTD	PY	Month	YTD	PY	Month	YTD	Target	PY
Aggregates																	
Midwest Region	8	82	74	6	81	66	0		14	6	360	7,175	4,910	0.8	1.0	1.1	0.9
Northeast Region	7	73	75	19	100	78	1		9	13	1,330	7,463	6,825	2.7	1.4	1.1	1.0
Southeast Region	3	58	82	2	59	95	0		12	18	120	5,688	7,034	0.7	1.0	1.1	1.2
Total East	18	213	231	27	240	239	1	0	35	37	1,810	20,316	18,769	1.5	1.1	2.1	1.0
Mid-Pacific Region	4	28	21	7	22	25	2		2	2	810	2,406	23,325	1.8	0.8		1.2
Pacific Southwest Region	4	39	40	6	44	79	3		8	18	1185	4,480	8,690	1.5	1.1		2.0
Permanente Cement	1	10	6	0	14	44	0		2	7	0	1,225	10,595	0.0	1.4		7.3
Mountain Region	1	13	7	6	47	10	1		11	13	550	2,663	1,320	6.0	3.6		1.4
HAC Aggregates	2	40	54	24	115	139	5		25	29	2,200	11,605	14,935	12.0	2.9	2.5	2.6
Total West	10	90	74	19	127	158	6	0	23	40	2,545	10,774	43,930	1.9	1.4		2.1
Total Aggregates	30	343	359	70	482	536	12	0	83	106	6,555	42,695	77,634	2.3	1.4	2.5	1.5
Building Products																	
Eastern Region	0	0	1	0	0	7	0		0	4	0	0	2,240	0.0	0.0		7.0
Central Region	0	1	0	0	1	0	0		1	0	0	1,500	0	0.0	1.0		0.0
North Central Region	0	7	1	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
Southwest Region	0	2	0	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
Southeast Region	0	2	0	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
Spancrete Pacific	1	1	0	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
Northeast	0	2	1	0	0	2	0		0	2	0	0	2,125	0.0	0.0		2.0
South Central (Choctaw)	0	0	0	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
HP&P Corporate Office	0	0	0	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
Total Pipe & Products	1	15	3	0	1	9	0	0	1	6	0	1,500	4,365	0.0	0.1		3.0
East Roof Tile	0	1	0	0	2	0	0		2	0	0	1,688	0	0	2.0	0.0	0.0
West Roof Tile	0	0	2	0	0	0	0		0	0	0	0	0	0	0.0	0.0	0.0
Total Roof Tile	0	1	2	0	2	0	0		2	0	0	1,688	0	0	2.0	0.0	0.0
Northern Region	0	0	4	0	0	18	0		0	0	0	0	0	0.0	0.0		4.5
Midwest Region	1	7	5	0	4	1	0		0	0	0	585	55	0.0	0.6		0.2
Southeast Region	0	11	8	0	7	31	0		1	0	0	815	5,556	0.0	0.6		3.9
South Central Region	0	3	2	0	0	0	0		0	0	0	0	0	0.0	0.0		0.0
Total Brick	1	21	19	0	11	50	0	0	1	0	0	1,400	5,611	0.0	0.5		2.6
Total Building Products	2	37	24	0	14	59	0	0	4	6	0	4,588	9,976	0.0	0.4	2.5	2.5
Total All Operations	32	380	383	70	496	595	12	0	87	112	6,555	47,283	87,610	2.2	1.3		1.6



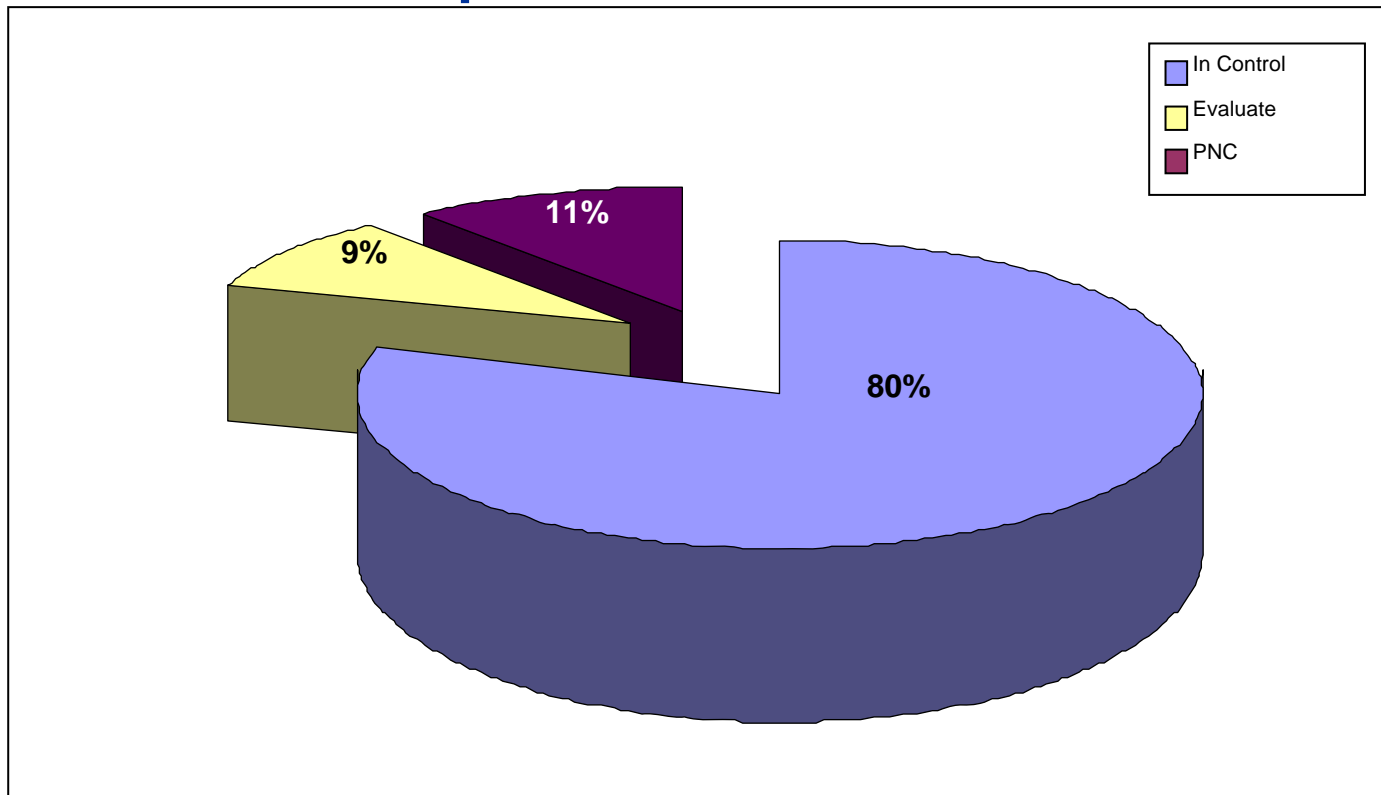
Hanson Industrial Hygiene

Initial Air/Noise Monitoring Program

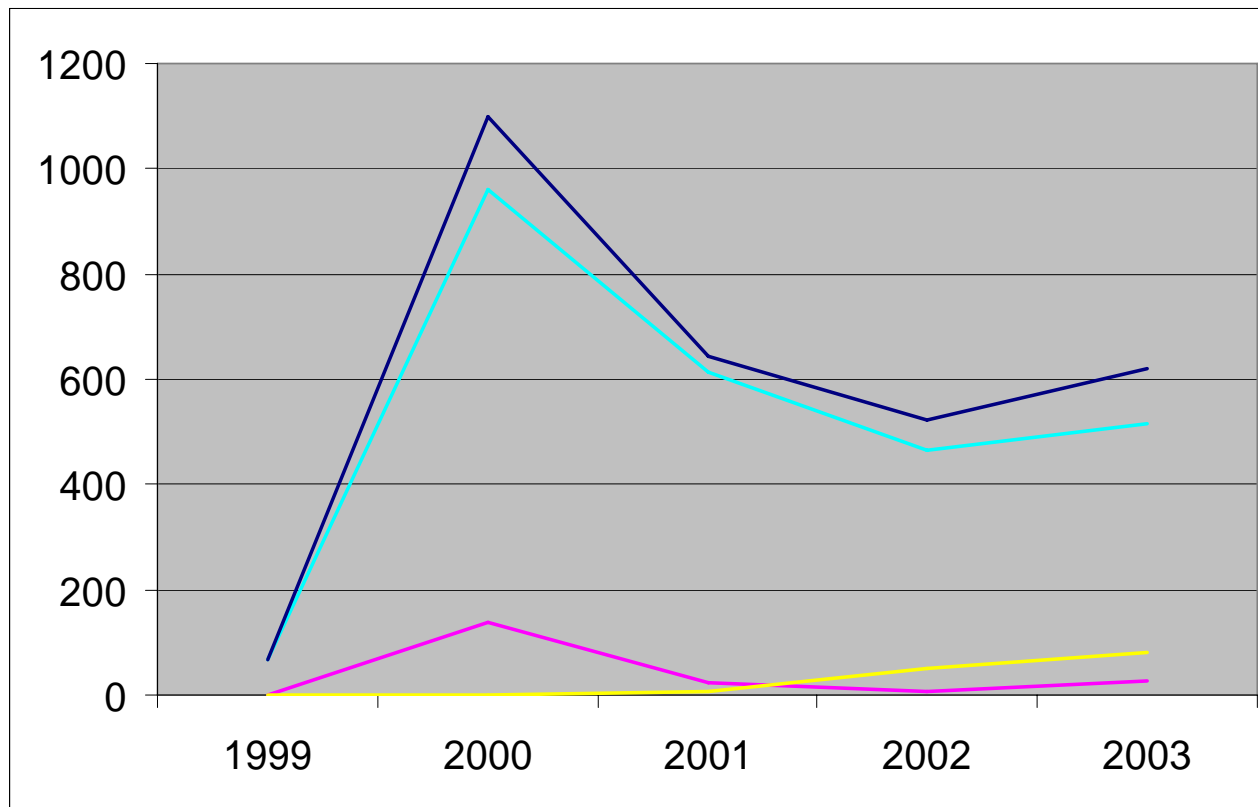
- **One of first American aggregate companies to implement company-wide in-house monitoring**
- **IH Program considered second only to Vulcan in U.S.**

Dust Containing Respirable Crystalline Silica Air Monitoring: 2003

Compliance Status: HBMA



Air Monitoring: 1999 - 2003



IH PROGRAM REVIEW Positive Aspects

- **Management commitment to program**
- **Monitoring equipment**
- **Analytical services**
- **Growing database of RCS results**
- **Unique HARP system**

Harp Submittal Form

Home Reports/HARP Job Codes Area Codes

Your EMAIL: Peter.Ward@HansonAmerica.co
(copy of HARP will be sent here)

Plant: Plum Run Stone Emergency Supply Only:

Anticipated Start Date: Anticipated End Date:

Test1:	<input type="button" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	Cassettes will be shipped to: Attention: <input type="text" value="Terry Louderback"/> Address1: <input type="text" value="848 Plum Run Road"/> Address2: <input type="text"/> City: <input type="text" value="Peebles"/> State: <input type="text" value="OH"/> Zip: <input type="text" value="45660"/> Phone: <input type="text" value="(937) 587-2671"/>
Test2:	<input type="button" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	
Test3:	<input type="button" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	
Test4:	<input type="button" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	
Test5:	<input type="button" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	

Blanks Needed: Calibration Requested:

Total Cassettes:

[Report Menu](#)

Bold face fields are required

IH PROGRAM REVIEW Areas of Concern

- **Quality of some data**
- **Annual NIST calibrations**
- **Sampling strategy**
- **Website / database**
- **Corporate guidance**

CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE

Instrument: Gilibrator-2
Flow Cell Serial #: 001-194
Base Serial #: 004519

Date Issued: 03/04/2004
Valid Until: 03/04/2005

Final Condition: Functional and In Tolerance for 1,000 cc/min to 3,000 cc/min
Restriction: Do NOT use for flow rate calibrations <1,000 cc/min.

Reference Standard

Device: Bios DC Lite **Model:** DCL-M **Serial #:** 102387

Last Calibration: 02/25/2004

Date Calibration Due: 02/23/2005

Measurement Uncertainty: ±1% for 90-7,000 cc/min

Test Flow Rate	Test Flow Rate Range (±1%)	Lab Standard Reading	Instrument Reading	Deviation Percentage
500 cc/min	495 – 505 cc/min	505 cc/min	474 cc/min	-6.2%
1,000 cc/min	990 – 1,010 cc/min	1,007 cc/min	1,000 cc/min	-0.7%
1,500 cc/min	1,485 – 1,515 cc/min	1,492 cc/min	1,492 cc/min	0.0%
2,000 cc/min	1,980 – 2,020 cc/min	1,999 cc/min	2,010 cc/min	0.6%
2,500 cc/min	2,475 – 2,525 cc/min	2,490 cc/min	2,510 cc/min	0.8%
3,000 cc/min	2,970 – 3,030 cc/min	2,980 cc/min	3,005 cc/min	0.8%

Calibrated By: _____ 03/04/2004

Richard G. Price, CIH, CSP

This report certifies that the calibration equipment used is traceable to the NIST.

IH PROGRAM

Areas of Concern

- **Quality of data**
 - **Lack of understanding of scientific basis of IH monitoring.**
 - **Problems with sampling technique**
 - **Instrument calibration**
 - **Sample time**
 - **Cyclones**
 - **blanks**

IH PROGRAM REVIEW UPGRAGES

Hanson IH Technician Certification Course

- Upgrade knowledge and skills of safety personnel
- Four day course in IH principles and technique
- Final exam: Hanson Certified IH Technician.
- Only Certified IH Technicians allowed to perform noise and air monitoring
- Re-certification required every three years

IH Tech Certification Course Syllabus

DAY 1

INTRODUCTION TO INDUSTRIAL HYGIENE (8 hours)

- **IH History and Evolution**
 - IH History & recent advances
- **IH Today**
 - Current and Evolving IH Issues (Asbestos, Silica, Carbon Reproductive Hazards, etc.
- **Toxicology**
 - Routes of Exposure; Dose – Response; Acute v. Chronic Effects; Effects of Overexposure; Carcinogens, Teratogens, Mutagens

IH Tech Certification Course Syllabus

DAY 1

INTRODUCTION TO INDUSTRIAL HYGIENE (8 hours)

- ❑ **Anatomy, Physiology, Pathology**
 - Lungs, Ears, Skin & Eyes

- ❑ **States of Matter – Why They Matter**
 - Gases, Vapors, Mists, Dust & Fumes

- ❑ **Occupation Exposure Limits**
 - OSHA and MSHA PELs
 - ACGIH TLVs and NIOSH RELs

- ❑ **Conducting Qualitative Industrial Hygiene Surveys**

IH Tech Certification Course Syllabus

DAY 2

INDUSTRIAL HYGIENE MONITORING (8 hours)

- ❑ **Targeted Exposure Monitoring**
 - Assessing Greatest Hazards First
- ❑ **Random Exposure Monitoring**
 - Develops Exposure Database & Detect Unnoticed Changes
- ❑ **Specific Air contaminants Exposure Monitoring Procedures**
 - Silica; total Dust; Welding Fumes; Diesel Particulate Matter; Asbestos; Asphalt Fumes; Coal Tar Pitch Volatiles & Xylene
- ❑ **Noise Monitoring Procedures**

IH Tech Certification Course Syllabus

DAY 3

INDUSTRIAL HYGIENE SAMPLING (12 hours)

- ❑ **Air Contaminants and Noise Monitoring**
 - Plant or Quarry Near Training
 - Each Trainee Tracks Two Air Samples and One Noise Dosimeter
 - Familiarizes Trainees with IH Equipment in Use
 - Training and Site Monitoring Accomplished Simultaneously

DAY 4

COURSE REVIEW AND WRITTEN TEST (4 hours)

- ❑ **Course Review – Questions, Answers, Discussions**
- ❑ **Written Test Covering Course Material**

Industrial Hygiene Training Course



The Alpha Class –
December 8-11, 2003
Grand Prairie, TX

IH Tech Certification Course

Grand Prairie - 8 - 11 Dec 03



IH Tech Certification Course

Grand Prairie - 8 - 11 Dec 03



IH Tech Certification Course

Grand Prairie - 8 - 11 Dec 03



IH Tech Certification Course

Grand Prairie - 8 - 11 Dec 03



IH Tech Certification Course

Grand Prairie - 8 - 11 Dec 03



A background image showing industrial workers in white hard hats and blue shirts working with large, curved metal pipes. One worker in the foreground is wearing a white hard hat with the "Hanson" logo and glasses, looking down. The scene is outdoors with a clear sky.

Chip Rogers

has successfully completed the Hanson North America training and examination requirements for

Industrial Hygiene Technician 2

Industrial Hygiene Sampling and Initial Results Interpretation

Certificate # 2003-005

Completed at Grand Prairie, TX
December 8-11, 2003

Richard G. Price, CIH, CSP
Senior Industrial Hygienist

Peter F. Ward
Corporate Safety Director

Kathleen O'Doherty, MS
Corporate Industrial Hygienist

IH PROGRAM REVIEW Areas of Concern

- **Calibrator certification**
 - ❖ **Dosimeters and field calibrators must be calibrated against a NIST standard annually.**

IH PROGRAM REVIEW UPGRAGES

Hanson IH Calibration Lab

- **Dosimeters and Dosimeter Field Calibrators**
 - 50 dosimeters in field @ \$260 - \$335 per annual calibration
 - Payback at ~ 6 months.
- **Dosimeters and Dosimeter Field Calibrators**
 - 20 dosimeters in field @ \$250 per annual calibration
 - Payback less than 6 months.
 - Annual saving \$2,400 in 1st year; \$3,150 subsequent years.

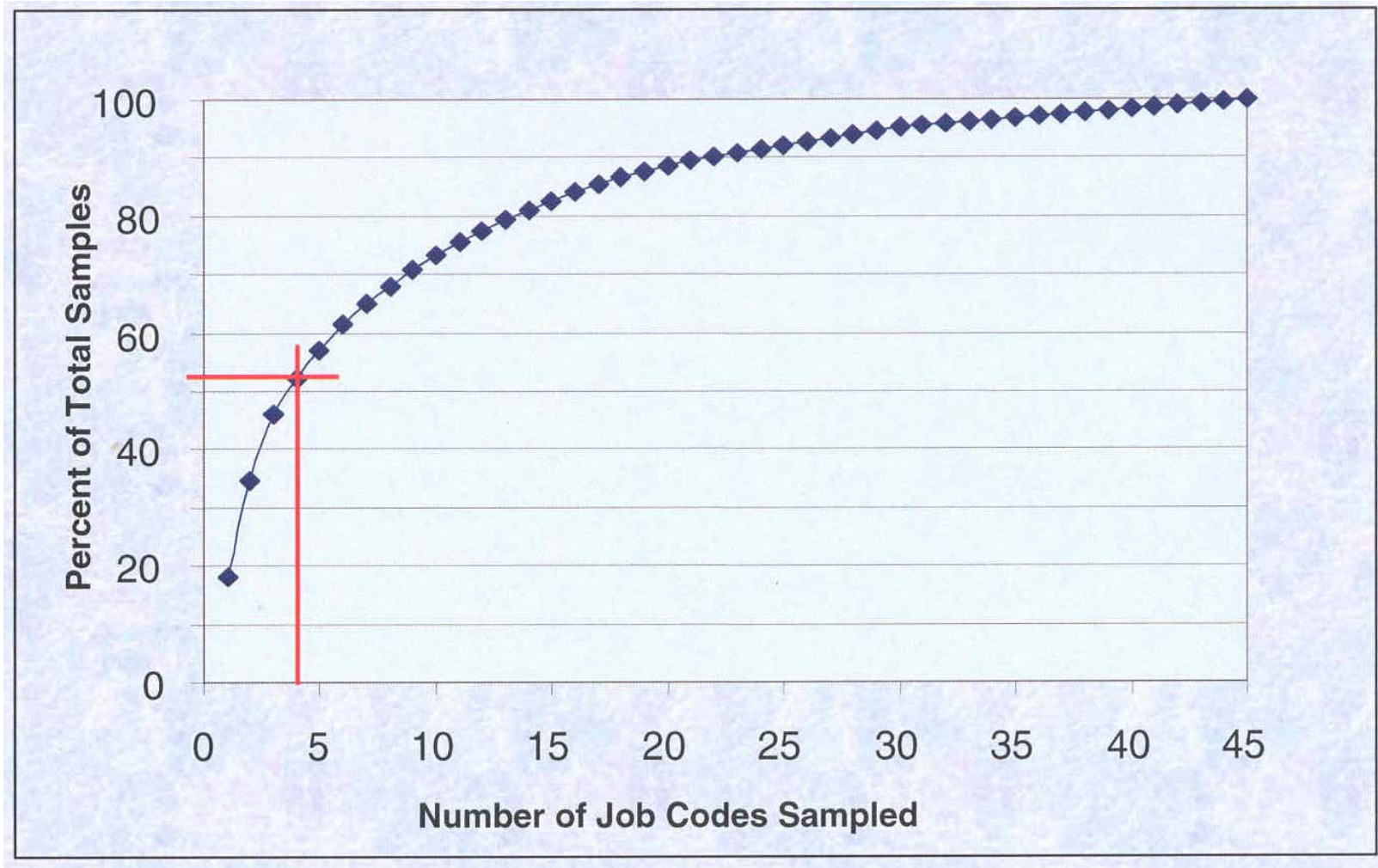
Areas of Concern

- **Sampling Strategy**
 - ❖ **Targeted monitoring**
 - **Sites**
 - **Job types**

HANSON AGGREGATES OPERATIONS WITH MONITORING DATA

Operation		Number Sampled	% Operations Sampled
Type	Number		
Aggregates	89	57	64
Sand / Gravel	61	27	44
Quarry	35	28	80
Crushed Stone	8	5	63
Stone	4	0	0
Construction	2	1	50
Fine Grind	2	0	0
Recycle	14	0	0
Concrete	45	0	0
Asphalt	37	0	0
Rail terminal	6	0	0
Sorbent	1	0	0
Sales Yard	5	0	0
Cement	1	1	100
Total	310	119	38%

% of Total Samples vs Number of Job Codes Sampled



Areas of Concern

- **Website / database**
 - ❖ **Design not robust enough to accommodate growth**
 - **Additional test methods/reports**
 - **Centralized database for dosimetry data**
 - **Documentation of field monitoring notes**
 - **Improved tracking for non-compliant results**
 - **Capability for ad hoc reports and statistical analysis**

IH Website



Hygiene

Welcome to Industrial Hygiene


- [Industrial Hygiene](#)
- [Plants](#)
- [Job Codes](#)
- [Area Codes](#)
- [Reports / HARP](#)
- [Analytical Methods](#)

The Industrial Hygiene Program is a multiphase process of identifying potential risks and overexposures.

- Qualitative Risk Assessment
- Target Noise/Dust and Welding fume sampling
- Utilize Information from the Medical Surveillance Program to further focus Target Sampling
- Continue Target Sampling

The Program is to help the company develop uniform

IH Website



The screenshot shows a web interface with an orange navigation bar at the top. The bar contains four items: 'Home' with a left arrow icon, 'Reports/HARP' with a document icon, 'Job Codes' with an 'A' icon, and 'Area Codes' with a house icon. The main content area has a light blue background with a grid pattern. The title 'Reports/HARP' is centered in a large, bold, dark red font. Below the title is a white rectangular box with a thin border, divided into two columns. The left column is titled 'REPORTS' in green and lists: Silica, Welding Fumes, Total Dust, Asbestos and Other Fibers, Diesel Particulate Matter, and Dosimetry. The right column is titled 'HARP' in green and lists: Submit a HARP. Below these columns is a section titled 'MISCELLANEOUS' in green, which lists: Plants, Download the Snapshot Viewer, and Change Password.

◀ Home Reports/HARP A Job Codes 🏠 Area Codes

Reports/HARP

REPORTS	HARP
Silica	Submit a HARP
Welding Fumes	
Total Dust	
Asbestos and Other Fibers	
Diesel Particulate Matter	
Dosimetry	

MISCELLANEOUS

- Plants
- Download the Snapshot Viewer
- Change Password

IH Website

◀ Home Reports/HARP A Job Codes 🏠 Area Codes

Your Name:

Your EMail:
(copy of HARP will be sent here)

Plant: Emergency Supply Only:

Anticipated Start Date: Anticipated End Date:

Test1:	<input type="text" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	Cassettes will be shipped to:
Test2:	<input type="text" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	
Test3:	<input type="text" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	
Test4:	<input type="text" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	
Test5:	<input type="text" value="None"/> <input type="button" value="v"/>	<input type="button" value="?"/> <input type="text" value="0"/>	Calib.	<input type="text" value="0"/>	

Blanks Needed: Calibration Requested:

Total Cassettes:

Attention:

Address1:

Address2:

City:

State: Zip:

Phone:

[Report Menu](#)

HARP

HANSON ANALYTICAL REQUEST PROCEDURE FORM (HARP)
Air Sampling

Plant Information

Plant Name: <u>HBMA Corporate Office</u>	Plant Contact: <u>Kathy O'Doherty</u>	Plant Fax #:
Plant Address: <u>1333 Campus Parkway</u>	Plant Phone #: <u>732.919.9777</u>	
City: <u>Neptune</u> State: <u>NJ</u> Zip: <u>07753</u>		
Anticipated Start Date: <u>3/09/04</u>	Anticipated Completion Date: <u>3/09/04</u>	Number of Blanks Included: <u>1</u>
Number Of Cassettes: <u>7</u>	NIOSH 7500: <u>5</u>	NIOSH 7300: <u>1</u>
	Cal: <u>1</u>	Cal: <u>1</u>

Project Management Contacts

Hanson Building Materials America Contact

Hanson Laboratory Coordinator: Kathy O'Doherty
 Address: 10650 Poplar Avenue Phone #: (909) 350-4238
 City: Fontana State: CA Zip: 92337 Fax #: (909) 350-2298

Laboratory Contact

Laboratory Name: R J Lee Group, Inc.
 Laboratory Project Manager: Steve Brown Phone #: (724) 387-1964
 Address: 350 Hochberg Road Fax #: (724) 733-1799
 City: Monroeville State: PA Zip: 15146

HARP ID#	<u>0000</u>	<u>0000</u>	<u>0001</u>	<u>1003</u>	<u>760</u>
	Division Code	Region Code	Plant Code	Month/Year	HARP Tracking Number

Ship Cassette To: <u>Peter Ward</u> Phone: <u>732.919.9777</u>	Cassette Type:	Samplers Name: _____
Address: <u>1333 Campus Parkway</u>	<u>Two Piece</u>	
City: <u>Neptune</u> State: <u>NJ</u> Zip: <u>07753</u>	<u>Three Piece</u>	

Signature Approvals for Initiation of Project

Harp Originator: <u>Kathy O'Doherty</u>	Phone	Fax	Date
Laboratory Project Manager: _____			<u>09/30/03</u>

Verification of Samples Collected and Analyzed upon Project Completion

For Laboratory Only:

Does laboratory concur with the correct number of samples collected and analyzed as listed above? _____

Does Analysis meet all applicable QA/QC requirements? _____
 (This will verify the actual number of samples analyzed for billing purposes.)

Discrepancies: _____

Laboratory Project Manager Signature: _____
 Date: _____

Hanson Pittsburgh Only:

Hanson Laboratory Coordinator: _____
 Date: _____

SAMPLING REPORT

Home
Reports/HARP
Job Codes
Area Codes

75%
1 of 1

Preview Bradenton Pipe

Respirable Dust Containing Crystalline Silica

Exposure Limits and Severity Ratios

Report data from: 01/01/03

Div: Pipe & Products

Reg: Southeast Region

Plant: Bradenton Pipe, FL

[click for sampling/analytical data](#)

ANALYSIS: Respirable Dust and Crystalline Silica

METHOD: NIOSH 0600, gravimetric and NIOSH 7500, X-Ray Diffraction

EXPOSURE LIMIT: OSHA/MSHA: 10 mg/m³ + %SiO₂ + 2

Employee	Cassette	Job Description	Sample Date	Quartz Wt. %	Airborne Concentration mg/m ³	Shift-adjusted Exposure Limit mg/m ³	Severity Ratio	Exposure Status
<i>Work Area/Location: Yard/Mill or Plant</i>								
2089089	71466	Pipe Patcher	09/17/03	< 3.7	0.178	5.000	< 0.1	In Control
4259003	71467	Overhead Crane Operator	09/17/03	N/A	< 0.132	5.000	< 0.1	In Control
7835939	71468	Pipe Patcher	09/17/03	5.2	0.246	1.395	0.2	In Control
1637495	71469	Pipe Patcher	09/17/03	9.0	1.409	0.908	1.6	PNC

IH PROGRAM UPGRAGES

Hanson IH Website Upgrade

- **Website Navigation Redesign**
 - Easier, quicker to use
 - Cleaner, more up-to-date look
- **Website Functions Rebuilt**
 - Interactive HARP for more versatility
 - Allow ad hoc reports to be run by Corp.
- **Database Reconstruct**
 - More stable architecture
 - Allow for future growth
 - Enable Corp IH to maintain tables and reports

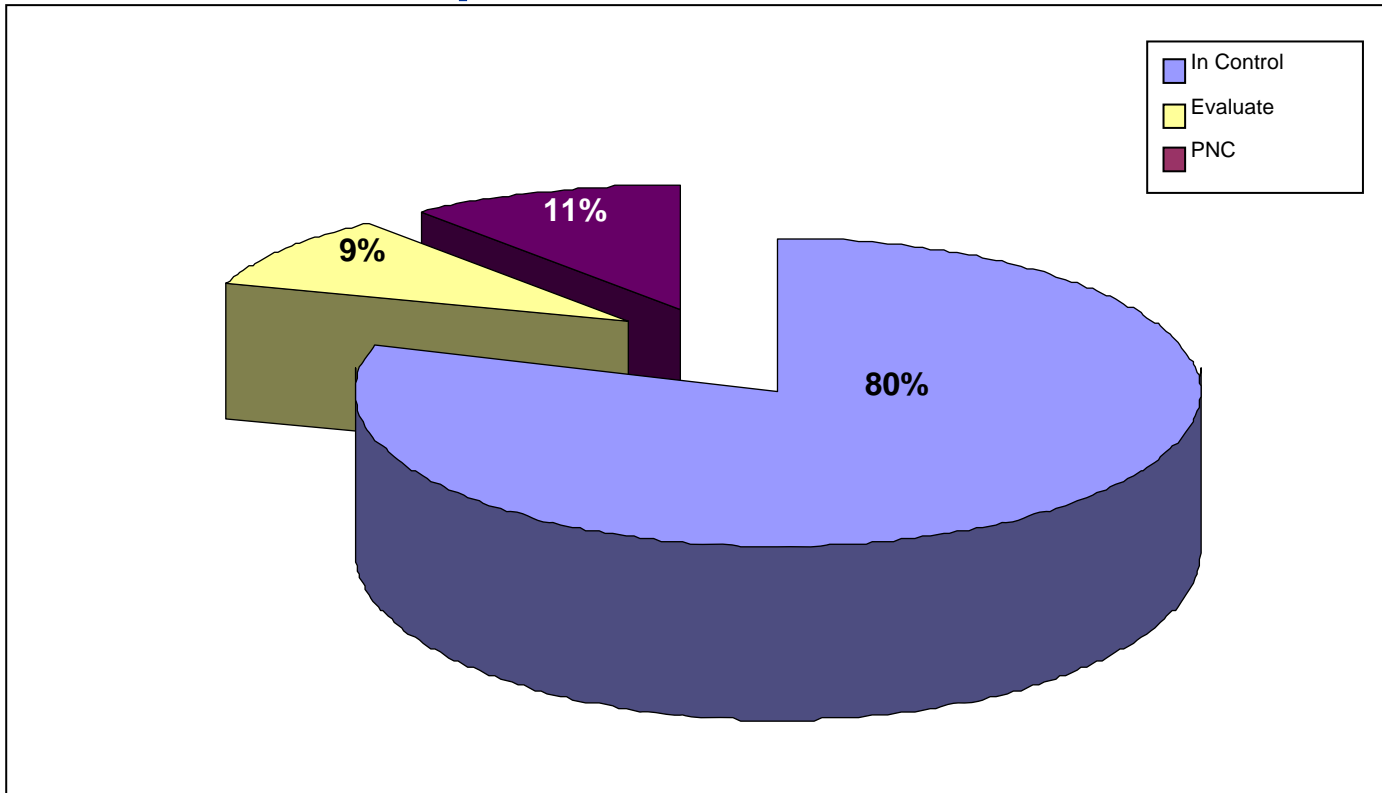
IH PROGRAM UPGRAGES

HBMA Corp. IH Guidance

- Track and monitor potential overexposure situations
- Monitor and document exposure controls, e.g. PPE, engineering controls
- Report quarterly monitoring progress

Dust Containing Respirable Crystalline Silica Air Monitoring: 2003

Compliance Status: HBMA

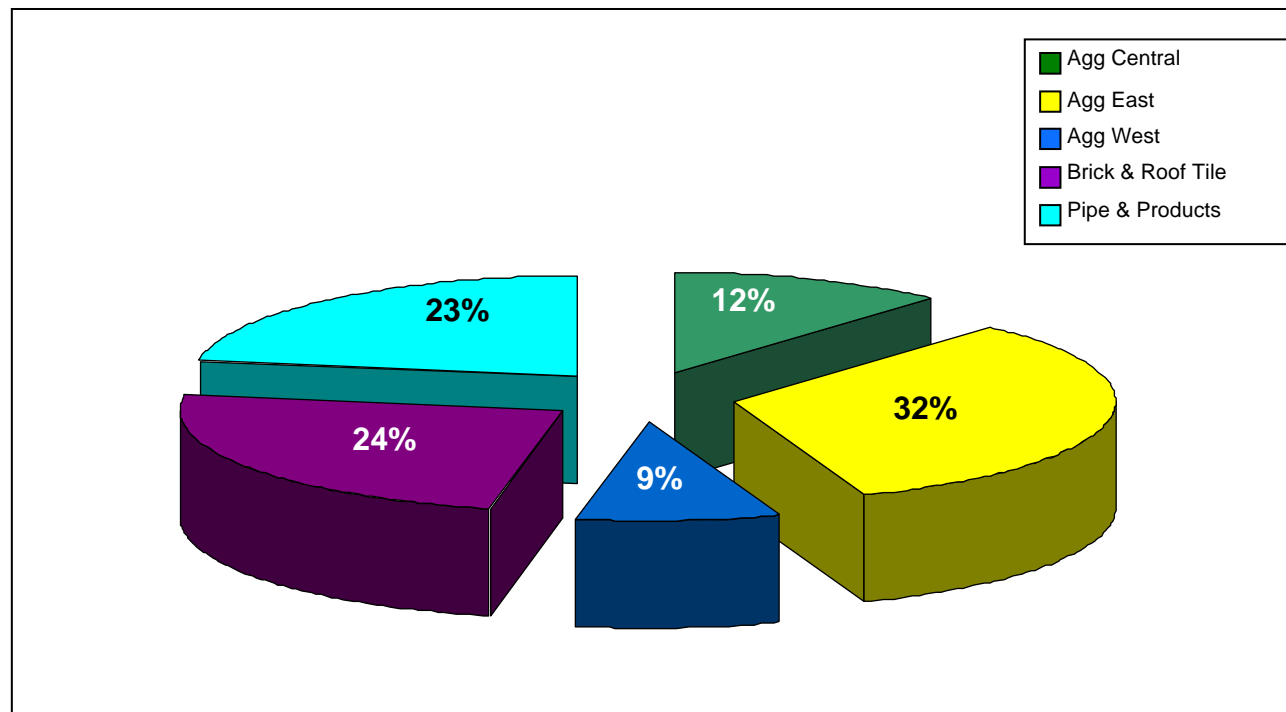


Dust Containing Respirable Crystalline Silica Air Monitoring: EOY 2003

A total of 515 respirable crystalline silica (RCS) samples were analyzed by R.J. Lee in 2003. The In Control samples made up 80% of the total and PNCs were 11%. In addition to RCS, 80 total dust and 26 welding samples were collected in 2004.

During 2002, 466 RCS samples (83% in control and 11% PNCs), 49 total dust and 6 welding samples were collected.

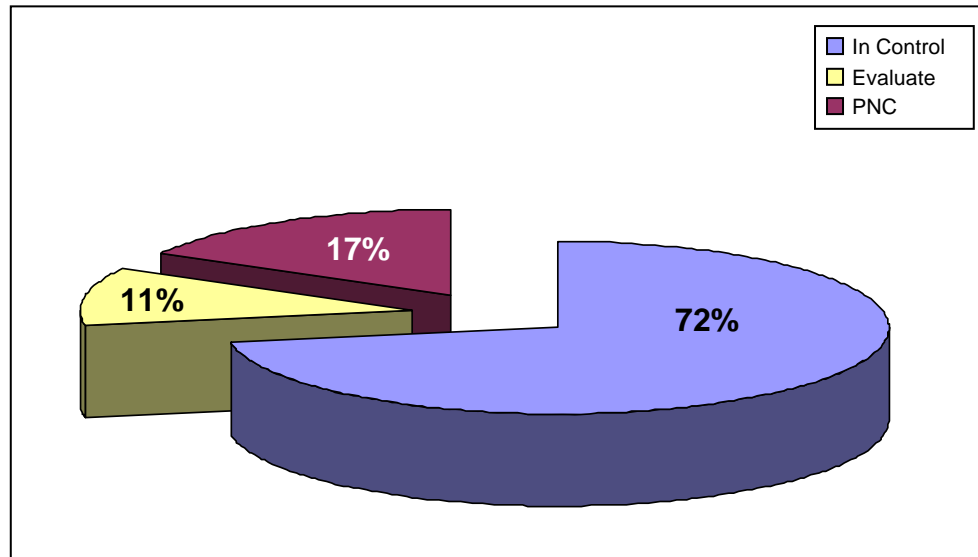
RCS Samples by Division



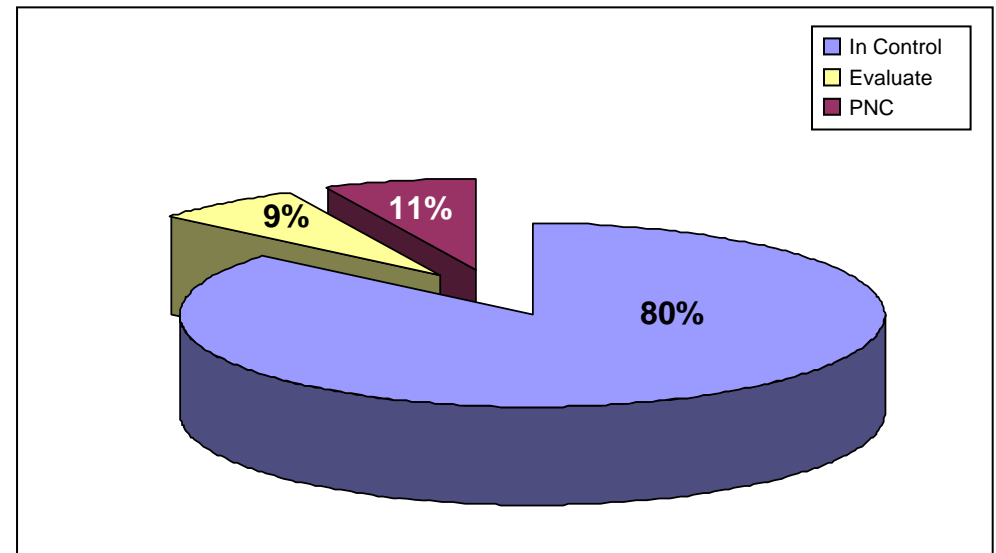
Dust Containing Respirable Crystalline Silica Air Monitoring: EOY 2003



RCS Compliance Status: Building Products



RCS Compliance Status: Aggregates



IH PROGRAM UPGRAGES

HBMA Corp. IH Guidance

- Track and maintain calibration of equipment
- Track and evaluate performance of Certified IH Techs
- Conduct IH Hazard Assessments with field safety professionals
- Assist field safety professionals with new or unusual monitoring tests.

HBMA Corp. IH Guidance

Current IH Regulatory Issues

● **SILICA**

- **OSHA:** Small business review phase of draft standard in final stage. OSHA is noncommittal as to what the proposed standard, if any, will contain – including PEL.
- **MSHA:** Latest Regulatory Agenda mentions ANPR due in May 2004.
- **ACGIH:** Notice of Intended Change to lower TLV from $0.05\text{mg}/\text{m}^3$ to $0.025\text{mg}/\text{m}^3$.

HBMA Corp. IH Guidance

Current IH Regulatory Issues

● **ASBESTOS**

- **MSHA:** Advanced Notice of Proposed Rulemaking (ANPR) due in 2003, now scheduled for May 2004.

● **DIESEL PARTICULATE MATTER**

- **MSHA:** Limited reopening of rulemaking record for comments.

● **MISCELLANEOUS**

- **Cr+6, Be:** Both hexavalent chromium and beryllium are on OSHA Regulatory Agenda for this year.
- **Respiratory Protection:** Assigned Protection Factors amendment to become final in 2004.

IH Legislative & Judicial Issues

● U.S. SENATE

- **Asbestos:** Fate of Asbestos Trust Fund Act still uncertain. Both the Trust Fund and the Ban Asbestos bill initially contained expanded asbestos definitions which would have been disastrous for the aggregates industry.

● CIVIL COURTS

- News coverage of continuing **asbestos** and mushrooming **silica** lawsuits continues to keep these subjects on the front burner.

ATLANTIC ALLIANCE CONFERENCE

**CAMBORNE SCHOOL OF MINES
UNIVERSITY OF EXETER IN CORNWALL**



**OCCUPATIONAL HEALTH
-- U.S. Health Program --**