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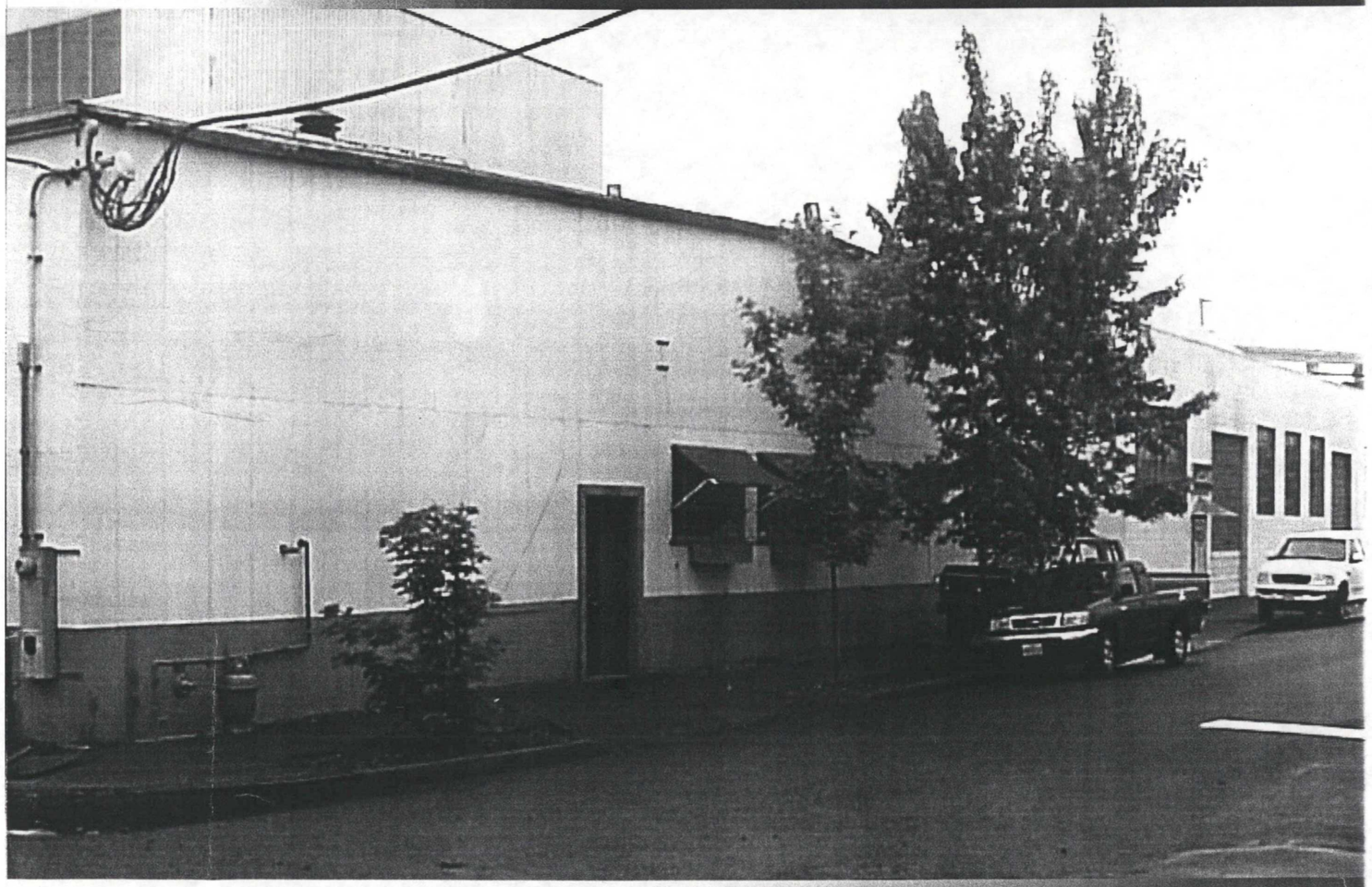

URS

Asbestos Abatement
Former Expansion Plant
Portland, Oregon

USEPA SF
1537067

March 2001

URS Project No. 46347.00.00000

For REMEDIUM GROUP, INC.
A Subsidiary Of W. R. Grace & Co.

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INTRODUCTION

1.0 INTRODUCTION

1.1 Purpose of Investigation/Abatement

The U.S. Environmental Protection Agency (EPA) is in the process of inspecting and/or sampling all former facilities, using or processing vermiculite concentrate originating from the former W. R. Grace & Co. (Grace) mine in Libby, Montana.

One of these buildings, the building located at 2335 North Harding Avenue, Portland, Oregon, 97227, (Refer to ***Drawing No. 347.0000-001: Vicinity Map***) was leased and used for many years as a vermiculite expansion plant first by Vermiculite Northwest, and later by Grace. The years of operation extend from 1944 until 1995 when the manufacturing ceased. When the Vermiculite operation ceased operation, all equipment was removed from the site and the interior of the building was cleaned. The building was subsequently leased to other business entities by the owners.

1.2 USEPA/ODEQ Investigation and Results

On March 2, 2000, an EPA contractor sampled dust from the overhead beams and walls in this building, which upon analysis indicated the presence of asbestos in three (3) of the samples. It is unknown whether more than three samples were collected by EPA. Refer to Appendix A: *USEPA Bulk Sample Results and Report.*

On April 2, 2000, Mr. Walter Pellett, DBA City Liquidators, the current owner of the building at 2335 North Harding Ave., wrote to Grace reporting on the EPA sampling event and requesting appropriate contact persons within Grace. Refer to Appendix B: *Building Owner's Letter.*

Grace, through an outside contractor, conducted independent sampling of the building on June 9, 2000, and the results of the analyses were forwarded to Mr. Kevin McCrann of ODEQ on June 28, 2000 (Refer to Appendix C: *Grace Bulk Sample Data*). After reviewing the analytical data forwarded from Grace and making comparisons with the EPA data of April 2, 2000, Mr. McCrann stated that Grace must take the necessary steps to remediate the building.

Based on the sample results and ODEQ's inspection and input, two (2) areas were identified by ODEQ to be cleaned/abated.

1. Dust that remained in a semi-solidified form on the structural trusses, and
2. Approximately 12 sq.ft. of a cementious fireproofing, that had been applied as a test patch.

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VICINITY MAP
2335 NORTH HARDING, PORTLAND, OREGON

DATE	SCALE	PROJECT NO.	DRAWING	REV.
08 MAR 01	NOT TO SCALE	46347.00.00000	46347.00000-001	0

Both affected areas are identified on ***Drawing No. 46347.0000-002: Building Plot Plan***.

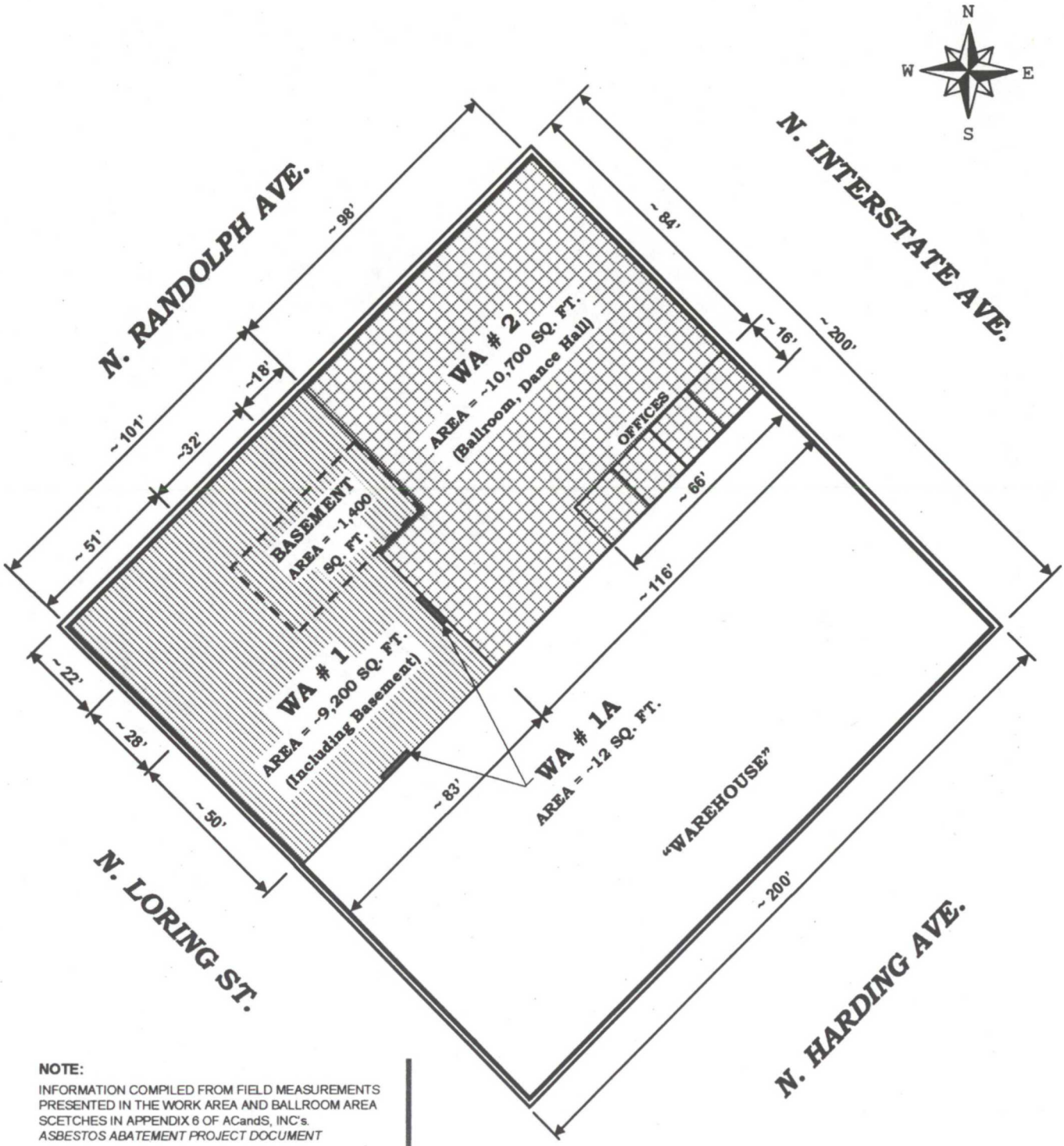
As a result, Grace contracted URS Corporation's (URS) Project Manager, Mr. James Stout, (Denver CSD Office, 707 17th Street, Denver, CO 80202) to provide the required abatement services.

URS subcontracted ACandS, Inc. (8141 West - 70 Frontage Road, Suite 100, Arvada, CO), an approved asbestos abatement contractor, to develop a Work Plan and conduct the clean-up/abatement activities.

1.3 Key Project Contacts

Key contacts for the asbestos investigation and abatement for the building located at 2335 N. Harding Avenue, Portland, OR are as follow:

ODEQ:	Mr. Kevin McCrann (503) 229-5473	Oregon DEQ Northwest Division 2020 SW 4th Ave., Suite 400 Portland, OR 97201-4987
Current Property Owner:	Mr. Walter Pellett Owner (503) 238-1367	DBA City Liquidators 823 SE 3rd Avenue Portland, OR 97214
URS:	Mr. Jim Stout Project Manager (303) 292-0800	URS Corporation 707 17th Street, Suite 3400 Denver, CO 80202
ACandS:	Mr. Joe Wood Project Manager (303) 940-9700 Ext. 10	ACandS, Inc. 8141 W. I-10 Frontage Road Suite 100 Arvada, CO 80002
Grace:	Mr. Robert R. Marriam Consultant (901) 820-2023	Remedium Group, Inc. A subsidiary of W.R. Grace & Co. 6401 Poplar Avenue Suite 301 Memphis, TN 38119-4840



NOTE:

INFORMATION COMPILED FROM FIELD MEASUREMENTS PRESENTED IN THE WORK AREA AND BALLROOM AREA SCETCHES IN APPENDIX 6 OF ACandS, INC's. *ASBESTOS ABATEMENT PROJECT DOCUMENT*

WORK AREA (WA) DIMENSIONS REVISED PER TELECON W / JIM STOUT 8 MAR 01.

SQUARE FOOTAGES WERE RECALCULATED PER ACandS, INC's. DIMENSIONS.

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REMEDIUM GROUP, INC.
A Subsidiary of W. R. Grace & Co.

BUILDING PLOT PLAN
2335 NORTH HARDING, PORTLAND, OREGON

DATE	SCALE	PROJECT NO.	DRAWING	REV.
08 MAR 01	NOT TO SCALE	46347.00.00000	**46347.00000-002**	0

SITE CHARACTERIZATION

2.0 SITE CHARACTERIZATION

2.1 Location

The structure sampled by USEPA's contractor and subsequently addressed in the ODEQ Work Plan is located in a commercial/industrial area bounded by the Willamettee River to the west and south and U.S. Interstates 405 and 5 to the north and east.

Refer to ***Drawing No. 46347.0000-001: Vicinity Map***.

The structure is located at:

2335 North Harding Avenue
Portland, OR 97227

2.2 Adjacent Land Use/Zoning

Per the City of Portland, Bureau of Planning's base and over zone land use classification system, Zoning Map 2829, the area is located at SW 1/4 SEC. 27 – 1N – 1E, and is zoned IG1, (General Industrial).

The subject building is bordered on all sides by similarly zoned (IG1) industrial developments. The area to the West and South, bordering the Williamette River, is zoned HIi (Heavy Industrial-River Industrial).

2.3 Building Description

The structure is a 200' x 200' single story structure with a penthouse and a small basement area. The building is primarily a structure of steel frame with metal siding. Interior walls are constructed of various materials.

Refer to ***Drawing No. 46347.0000-002: Building Plot Plan*** for building dimensions and work area designations.

Refer to Appendix D: *Building Photographs*.

3.0 WORK PLAN AND WORK ACTIVITIES

3.1 Work Plan

At Grace's direction, URS, who provides Program Management for Grace's asbestos projects subcontracted ACandS, Inc. (ACandS) to prepare a *Building Decontamination Plan* to address ODEQ's findings.

ACandS prepared a Work Plan addressing the HEPA vacuuming/power washing of the solidified dust build up on the trusses in the identified work areas.

Grace's proposed Work Plan was submitted to ODEQ on 3 JAN 00 (Refer to Appendix E: *Building Decontamination Plan*).

ODEQ's Mr. Kevin McCrann approved the Work Plan verbally, and work commenced on 9 JAN 01.

3.2 Bulk Sampling

USEPA, ODEQ and Grace conducted initial bulk sampling to characterize the site and determine the need for further abatement/cleaning of the structure.

The results of that sampling is discussed previously and presented in Appendices A and C, herein.

During the abatement activities additional materials were sampled, as identified, to ensure that all ACM resulting from the former Grace operations was properly characterized and abated, as necessary.

Three (3) specific additional areas were sampled during the abatement:

- the domed roof area,
- the ballroom, and
- the crawl space.

All samples were analyzed by R.J. LeeGroup, Inc. via transmission electron microscopy (TEM), following the method outlined in ASTM D-5756.

The sampling and analytical results are summarized as follows:

- **Domed Roof Area**

  Five (5) samples (A-1 thru A-5) of dust were collected in the Dome Roof area.

The sample analyses indicated that the material sampled was not ACM, refer to Table 3-1: *TCM Results for A-Group Samples*.

Table 3-1
TEM Results For A-Group Samples
DOME CEILING AREA

SAMPLE NO.	ASBESTOS CONC. (wt %)	ACM DEFINITION (wt %)	MATERIAL SAMPLED ACM
A-1	0.007	> 1	NO
A-2	0.0002	> 1	NO
A-3	0.001	> 1	NO
A-4	0.02	> 1	NO
A-5	0.004	> 1	NO

The results indicated that no additional abatement was required in the dome ceiling area.

- **Ballroom Area**

Six (6) samples (B-1 thru B-6) of dust in the Ballroom area were collected.

The results summarized in Table 3-2: *TEM Results for B-Group Samples* indicate that one (1) of the five (5) samples contained > 1 wt % asbestos.

Table 3-2
TEM Results For B-Group Samples
BALLROOM AREA (WA #2)

SAMPLE NO.	ASBESTOS CONC. (wt %)	ACM DEFINITION (wt %)	MATERIAL SAMPLED ACM
B-1	0.2	> 1	NO
B-2	0.3	> 1	NO
B-3	0.2	> 1	NO
B-4	0.3	> 1	NO
B-5	3.8	> 1	YES
B-6	0.1	> 1	NO

As a result of the Ballroom sample analyses, WA #2 was added to the areas requiring cleaning, as part of this abatement activity.

- **Crawl Space**

  Five (5) samples (C-1 thru C-5) were collected.

  The analytical results indicated that the dust sampled was not ACM.

  Refer to Table 3-3: *TEM Results for C-Group Samples.*

Table 3-3
TEM Results For C-Group Samples
CRAWL SPACE

SAMPLE NO.	ASBESTOS CONC. (wt %)	ACM DEFINITION (wt %)	MATERIAL SAMPLED ACM
C-1	0.0001	> 1	NO
C-2	0.0097	> 1	NO
C-3	0.00007	> 1	NO
C-4	0.078	> 1	NO
C-5	0.008	> 1	NO

Based on the TEM analytical results, it was determined that the crawl space dust was not ACM.

3.3 Work Activities

Following ODEQ's approval of the Work Plan, the Plan was executed pursuant to ODEQ Regulations and the Work Plan, the following summarizes the activities at the site throughout the abatement, which commenced 9 JAN 01, and concluded with final ODEQ inspection on 7 FEB 01.

Safety being paramount to each project, the following activities were undertaken for the duration of the project:

- Each day that the abatement workers were onsite, they began the day with a safety meeting. (Refer to Appendix G: *Daily Safety Meeting Reports*)
- All personnel entering the containment were in Level "C" PPE,
- The four (4) Negative Air Machines (NAM's) were operational for the duration of the project, (Refer to Appendix H: *Containment Logs*), and
- Personnel air sampling was conducted (Refer to Appendix I: *Air Monitoring Data).*

9 JAN 01	ACandS mobilized on site. Containment was erected, and 4 NAMs were wired/installed. AcandS initiated HEPA vacuuming in Work Area 1 (WA #1) to remove the dust on the trusses.
10 JAN 01	All ACandS personnel in Level "C" PPE for all work inside the containment. Initiated HEPA vacuuming of vertical surfaces (walls) in WA #1.
11 JAN 01	Crew continued HEPA vacuuming and erected secondary containment near the loading dock to facilitate removal of approximately 12 sq.ft. of a cementious fire proofing, ACM, applied as 2' x 2' test patches, the southeast and northeast sides of WA #1, identified as WA #1A. The removal of the fire proofing was completed in the afternoon. Also that afternoon Grace and subsequently, ODEQ were informed that HEPA vacuuming of the solidified dust on the trusses was ineffective. Power washing was recommended by ACandS to ensure removal of the dust. ODEQ's Mr. McCrann was consulted re: the modified Plan, and he approved power washing with no additional controls required. Conducted visual inspection of WA #1A and AcandS collected clearance air samples. Encapsulation of WA #1A approved. ACandS utilized an encapsulant, Fiber Set PM, that applies as a milky white color to allow visual confirmation that total coverage of the area to be encapsulated was achieved. The encapsulant dries clear.
12 JAN 01	Analyses of clearance air samples indicated compliance with the AHERA clearance standard of < 0.01 f/cc. Thus, ACandS was cleared to remove WA #1A containment.
13 JAN 01	AcandS continued using airless spraying to maintain a water mist in the containment. HEPA vacuuming of WA #1 completed on main floor with the exception of the power wash area.
15 JAN 01	AcandS arranging for vacuum water recovery to capture power wash water. Basement area clean up completed, and inspected. Analytical results for five (5) previous bulk samples (A-1 thru A-5) collected in the domed ceiling area, indicate materials sampled are not ACM. (Refer to Appendix F: *Project Bulk Sample Data.)*

	Begin pre-cleaning power wash area.
16 JAN 01	AcandS crew continues pre-cleaning power wash area, and hand scooping settled dust from webbing of horizontal steel beams in WA #1.
17 JAN 01	Complete HEPA vacuuming of roof beams.
	Power washing begins. All collected wash water was filtered (< 5 microns) prior to disposal via a sanitary drain in WA #1.
	Complete power washing of beams. Begin removing and filtering wash water.
	Five (5) additional bulk samples (C-1 through C-5) collected in crawl space.
18 JAN 01	Wash water collected in troughs of horizontal beams is collected via HEPA vacuuming.
	Crew wiped upper steel beams and clean floor.
	Power washed roll-up door.
	Abatement complete final clean up of WA #1 initiated.
	Results of bulk samples B-1 thru B-6 analyses received. One (1) of the six (6) samples indicates asbestos content of dust > 1 wt %. (Refer to Appendix F: *Project Bulk Sample Data*). Ballroom area (~ 10,700 sq. ft.) added to cleanup as WA #2.
19 JAN 01	Visual inspection of WA #1 completed. Several areas identified for additional cleaning. Following additional clean-up, WA #1 reinspected and cleared for encapsulation.
	WA #1 encapsulation completed, utilizing Fiber Set PM encapsulant.
20 JAN 01	Clearance samples collected in WA #1. Analysis of WA #1 clearance samples indicate fiber concentration below the AHERA clearance standard of < 0.01 f/cc.
22 JAN 01	Begin pre-cleaning and wrapping electrical fixture in WA #2. Crew completes clean up of cracks in floor.
23 JAN 01	Collected background air samples in WA #2 (Ballroom/Dance Floor Area).

	HEPA vacuuming floor, wiping and wrapping lights and junction boxes.
24 JAN 01	ACandS mobilizing in WA #2 conducting pre-cleaning above offices and installation of containment and NAM's.
	Dusts above offices is caked to wood – has to be wire brushed to remove.
25 JAN 01	Continue cleaning above offices.
	Office cleaning is completed. Office area isolated from WA #2.
26 JAN 01	Complete polying floors, installation of NAM's and construct WA #2 decon.
27 JAN 01	ACandS completes set up, decon, and tests power washers.
29 JAN 01	Initiate power washing in WA #2. Complete washing of approximately 1/3 of area.
30 JAN 01	ACandS continues to power wash deck and walls in WA #2. Deck washing complete. Begin cleaning floor.
31 JAN 01	Gross removal in WA #2 complete.
	Clean up of area continues.
1 FEB 01	Final cleaning in WA #2 underway.
	Informed by Grace that, based on bulk sample results (samples C-1 thru C-5 all indicate that dust sampled is not ACM) and conversation with ODEQ, no cleanup in the crawl space in required.
2 FEB 01	ACandS requests pre-encapsulation visual inspection of WA #2.
	Visual inspection identified additional clean up required. Additional cleaning initiated for beams, rafter expansion joints and the area above offices.
3 FEB 01	Area re-inspected, following additional cleaning, and cleared for encapsulation.
	Encapsulation completed.
5 FEB 01	Clearance samples collected.
	Analytical results indicate fiber concentration in WA #2 below clearance standard.

7 FEB 01 Final ODEQ site inspection conducted by Mr. Kevin McCrann.

Refer to Appendix J: *Pre-Inspection and Final Clearance Logs*.

Refer to Appendix K: *ACandS Site Log*

Refer to Appendix L: *URS Project Log*

3.4 Air Monitoring

In order to safeguard public health, ensure worker safety and to ensure proper execution of the Work Plan per ODEQ regulations, three (3) types of air monitoring were conducted during the abatement:

- background (outside the work area),
- personnel, and
- clearance (inside the work area, when work is complete).

The monitoring was completed pursuant to standard methods utilized by USEPA, ODEQ and OSHA.

The results are summarized below:

- **Background Monitoring: Summary of Results**

  Table 3-4: *Background Air Sampling Results* presents monitoring and analytical results for air samples collected outside of the containment areas before or during the abatement. Samples were analyzed per standard phase contrast microscopy (PCM) methods.

  All samples indicate that all air monitoring results are below the AHERA clearance standard of < 0.01 f/cc.

Table 3-4
Background Air Sampling Results

SAMPLE DATE	SAMPLE NO.	SAMPLE LOCATION	SAMPLE AIR VOLUME (Liters)	FIBERS/ FIELDS COUNTED	ASBESTOS CONC. (fibers/cc)	AHERA LIMIT (fibers/cc)	LOQ[2] (fibers/cc)	WITHIN GUIDANCE LIMIT
9 JAN 01	01-09-01	Field Blank		0/100				
	01-09-02	Field Blank		0/100				
	0109-03	NW corner by dock	1633	24/100	0.007	0.01	0.002	YES
	0109-04	S wall of ballroom	1764	21/100	0.006	0.01	0.002	YES
	0109-05	N wall of warehouse office	1627	17/100	0.005	0.01	0.002	YES
10 JAN 01	0110-01	Field Blank		0/100				
	0110-02	Field Blank		0/100				
	0110-03	Outside SW corner WA #1	3153	32/100	0.005	0.01	0.001	YES
	0110-04	Outside SE corner WA #1	2841	21/100	0.004	0.01	0.001	YES
11 JAN 01	0111-01	Field Blank		0/100				
	0111-02	Field Blank		0/100				
	0111-03	Outside SW corner WA #1	3069	43/100	0.007	0.01	0.001	YES
	0111-04	Outside SE corner WA #1	2891	36/100	0.006	0.01	0.001	YES
12 JAN 01	0112-01	Field Blank		0/100				
	0112-02	Field Blank		0/100				
	0112-03	Outside SW corner WA #1	3051	35/100	0.006	0.01	0.001	YES
	0112-04	Outside SE corner WA #1	2933	27/100	0.005	0.01	0.001	YES

[1] Results based upon PCM analyses [2] LOQ = Limit of Quantification

Table 3-4
Background Air Sampling Results

SAMPLE DATE	SAMPLE NO.	SAMPLE LOCATION	SAMPLE AIR VOLUME (Liters)	FIBERS/ FIELDS COUNTED	CONC. (fibers/cc)	AHERA LIMIT (fibers/cc)	LOQ[2] (fibers/cc)	WITHIN GUIDANCE LIMIT
13 JAN 01	0113-01	Field Blank		0/100				
	0113-02	Field Blank		0/100				
	0113-03	Outside SW corner WA #1	2657	31/100	0.006	0.01	0.001	YES
	0113-04	Outside SE corner WA #1	2530	25/100	0.005	0.01	0.001	YES
15 JAN 01	0115-01	Field Blank		0/100				
	0115-02	Field Blank		1/100				
	0115-03	Outside SW corner WA #1	2688	37/100	0.007	0.01	0.001	YES
	0115-04	Outside SE corner WA #1	2565	29/100	0.006	0.01	0.001	YES
16 JAN 01	0116-01	Field Blank		0/100				
	0116-02	Field Blank		0/100				
	0116-03	Outside SW corner WA #1	2876	27/100	0.005	0.01	0.001	YES
	0116-04	Outside SE corner WA #1	2740	20/100	0.004	0.01	0.001	YES
17 JAN 01	0117-01	Field Blank		0/100				
	0117-02	Field Blank		0/100				
	0117-03	Outside SW corner WA #1	2739	23/100	0.004	0.01	0.001	YES
	0117-04	Outside SE corner WA #1[3]	2665	16/100	0.003	0.01	0.001	YES

[1] Results based upon PCM analyses [2] LOQ = Limit of Quantification [3] Log incorrectly labeled "SW Corner"

Table 3-4
Background Air Sampling Results

SAMPLE DATE	SAMPLE NO.	SAMPLE LOCATION	SAMPLE AIR VOLUME (Liters)	FIBERS/ FIELDS COUNTED	CONC. (fibers/cc)	AHERA LIMIT (fibers/cc)	LOQ[2] (fibers/cc)	WITHIN GUIDANCE LIMIT
18 JAN 01	0118-01	Field Blank		0/100				
	0118-02	Field Blank		0/100				
	0118-03	Outside SW corner WA #1	2611	21/100	0.004	0.01	0.001	YES
	0118-04	Outside SE corner WA #1	2545	17/100	0.003	0.01	0.001	YES
23 JAN 01	0123-03	Center S Wall WA #2	2520	11/100	0.002	0.01	0.002	YES
	0123-04	Center E Wall, WA #2	2520	9/100	< LOQ	0.01	0.002	YES
	0123-05	Center N Wall WA #2	2520	11/100	0.002	0.01	0.002	YES
	0123-06	Center W Wall WA #2	2520	13/100	0.002	0.01	0.002	YES
	0123-07	Center WA #2	2520	11/100	0.002	0.01	0.002	YES
29 JAN 01	0129-03	Outside Center E Wall WA #2	3465	5/100	< LOQ	0.01	0.001	YES
	0129-04.	Outside Center W Wall WA #2	3465	3/100	< LOQ	0.01	0.001	YES
	0129-05	Outside NE corner WA #2	3465	10/100	0.001	0.01	0.001	YES

[1] Results based upon PCM analyses
[2] LOQ = Limit of Quantification

- **Personnel Monitoring: Summary of Results**

  Pursuant to OSHA Guidelines and to ensure workers safety during the abatement activities, personnel within the containment were routinely monitored via standard NIOSH Methods.

  Samples were analyzed per standard PCM methods.

  The results indicating the specific worker, project activity and results are presented in Appendix I: *Air Monitoring Data.*

- **Clearance Monitoring: Summary of Results**

  Clearance air monitoring was conducted following the final clearance visual inspection in each work area (WA #1A, WA #1 and WA #2).

  Each sample was analyzed per standard PCM methods.

  The results are summarized in Table 3-5: *Clearance Air Sampling Results.*

  Clearance results in each work area indicated fiber levels well below the AHERA clearance level of 0.01 fiberts/cc.

  In accordance with recognized work practices, upon review of the Clearance Air Sampling Results, ACandS, Inc. removed containment in each area.

Table 3-5
Clearance Air Sampling Results

SAMPLE DATE	SAMPLE NO.	SAMPLE LOCATION	SAMPLE AIR VOLUME (Liters)	FIBERS/ FIELDS COUNTED	ASBESTOS CONC. (fibers/cc)	AHERA LIMIT (fibers/cc)	LOQ[2] (fibers/cc)	WITHIN AHERA LIMIT
12 JAN 01[1]	0112-05 DM09	Inside WA #1A	1796	13/100	0.004	0.01	0.001	YES
	0112-06 DM09	Inside WA #1A	1767	11/100	0.003	0.01	0.001	YES
	0112-07 DM09	Inside WA #1A	1786	16/100	0.004	0.01	0.001	YES
20 JAN 01	0120-03	N Wall WA #1	1245	9/100	0.004	0.01	0.001	YES
	0120-04	NW Corner WA #1	1213	11/100	0.004	0.01	0.001	YES
	0120-05	Center W Wall-Office Area WA #1	1218	7/100	0.003	0.01	0.001	YES
	0120-06	Top of Ramp WA #1	1186	9/100	0.004	0.01	0.001	YES
	0120-07	N Wall Basement WA #1	1205	6/100	0.002	0.01	0.001	YES
	0120-07	Blind Recount	1205	7/100	0.003			

[1] Field Blanks for clearance sampling may be reported in Table 3-4: *Background Air Sampling Results* for the corresponding date.
[2] LOQ = Limit of Quantification

Table 3-5
Clearance Air Sampling Results

SAMPLE DATE	SAMPLE NO.	SAMPLE LOCATION	SAMPLE AIR VOLUME (Liters)	FIBERS/ FIELDS COUNTED	CONC. (fibers/cc)	AHERA LIMIT (fibers/cc)	LOQ[2] (fibers/cc)	WITHIN AHERA LIMIT ?
5 FEB 01	0205-01	Field Blank		0/100				
	0205-02	Field Blank		0/100				
	0205-03	N Wall WA #2	1511	7/100	< LOQ	0.01	0.001	YES
	0205-04	NE Corner WA #2	1558	4/100	< LOQ	0.01	0.001	YES
	0205-05	Next to E Decon Exit WA #2	1513	4/100	< LOQ	0.01	0.001	YES
	0205-06	W Wall WA #2	1617	6/100	< LOQ	0.01	0.001	YES
	0205-07	Center Power Panel WA #2	1409	3/100	< LOQ	0.01	0.001	YES

[1] Field Blanks for clearance sampling may be reported in Table 3-4: *Background Air Sampling Results* for the corresponding date.
[2] LOQ = Limit of Quantification

4.0 LICENSE, NOTICE OF INTENT & ASBESTOS CERTIFICATIONS

4.1 ODEQ Abatement Company License

ACandS, Inc. is an ODEQ Licensed Abatement Company – License No. FSC543.

4.2 ODEQ Notice of Intent

On 21 NOV 00 ACandS filed an ODEQ Notice of Intent to remove asbestos.

Refer to Appendix N: *ODEQ Notice of Intent.*

4.3 Personnel Asbestos Certifications

URS' on-site project management activities were performed by Jim Stout and Tim Gish, who are certified as Asbestos Inspectors, Contractor/Supervisors, and Air Monitors as specified by the Asbestos Hazard Emergency Response Act (AHERA). They have also been trained in accordance with Occupational Safety and Health Administration (OSHA) regulations for asbestos exposure in construction (20 CFR 1926.1101).

ACandS' supervisors and workers were similarly trained and certified to perform the Work Plan activities.

Prior to initiating the onsite work, ACandS sponsored onsite training to provide the required ODEQ training for each supervisor and worker.

Refer to Appendix O: *ACandS Personnel Certifications.*

CONCLUSIONS

5.0 CONCLUSIONS

A Work Plan was proposed by Grace to address ODEQ's clean-up/abatement request.

ODEQ approved the Work Plan and monitored progress throughout the abatement activities. ODEQ authorized subsequent modifications of the Work Plan, based on field conditions (i.e. power washing in addition to HEPA vacuuming dust on beams), as necessary.

ACandS, an ODEQ Licensed Abatement Company, developed the Work Plan and executed the abatement pursuant to the approved plan.

Visual inspections and air monitoring were conducted in each work area following completion of the removal activities to ensure that any remaining fibers were below approved clearance standards.

A post-abatement inspection by ODEQ's Mr. Kevin McCrann on 7 FEB 01 resulted in no further action being requested of Grace.

Subsequent to the final inspection, all waste asbestos and asbestos contaminated materials, resulting from the abatement were transported (Waste Management of Oregon, Inc.) and disposed (Hillsboro Landfill, Inc.) by Oregon licensed contractors.

LIMITATIONS

6.0 LIMITATIONS

This report describes the data collected and observations made by URS during the abatement project at 2335 North Harding Avenue, Portland, OR. URS represents that its services were performed within the limits prescribed by applicable regulations, within the scope of work as approved by the EPA and the State of Oregon, and in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances.

URS accepts no responsibility for data collected, recommendations made or expressed to the client, and/or other commitments made by persons other than URS. No other representation is made to the client, expressed or implied, and no warranty or guarantee is included or intended.

APPENDIX A

APPENDIX A

USEPA BULK SAMPLE RESULTS AND REPORT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101

March 28, 2000

Reply To
Attn of: ECL-115

Walter Pelett
823 SE 3rd Avenue
Portland, Oregon 97214-2197

Re: Property located at 2303 N. Harding Ave, Portland, OR

Dear Mr. Pelett:

The U.S. Environmental Protection Agency (EPA) collected samples from the facility located at the above referenced address on March 2, 2000. Enclosed is a copy of the results. The samples were collected in relation to on-going assessment activities by EPA of contamination issues associated with a former vermiculite mine in Libby, Montana.

A copy of the results will be provided to the state of Oregon Department of Environmental Quality (ODEQ) and the Oregon Occupational Safety and Health Administration (OSHA). Additionally, EPA will provide a copy of the results to the current building occupants, Acme Scenic & Display Inc. and Gronholm Manufacturing.

Should you have questions regarding follow-up activities/involvement by state authorities, please contact Kevin McCrann of the ODEQ Asbestos Program at (503) 229-5473 or John Miller of Oregon OSHA at (503) 229-5910. For questions regarding EPA assessment activities, please feel free to contact me at (206) 553-0323. EPA appreciates your continued cooperation in this matter.

Sincerely,

Monica Tonel

Monica Tonel
Site Assessment Manager

Enclosure

cc: Kevin McCran, ODEQ Asbestos Program
John Miller, Oregon OSHA
Jed Januch, EPA

Printed on Recycled Paper

+617 W R GRACE 221 P03/13 MAY 04 '00 10:23

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

March 22, 2000

EPA - Region 10
1200 Sixth Ave.
Seattle, WA 98101

Attn: Keven McDermott

Project Name: Vermiculite Expansion Plant
Project Number: Not Available
P. O. Number: Not Available

Lab/Cor Batch Number: 000206

Conditions Enclosed please find results for samples submitted to our laboratory on March 6, 2000. A list of samples received follows, with limitation or rejection criteria noted where applicable.

Lab/Cor Sample No.	Client Sample No.	Limitation/Rejection Criteria
000206-01	94200	No special conditions were noted
000206-02	94201	No special conditions were noted
000206-03	94202	No special conditions were noted

Method Preparation and analysis of the above samples was conducted in accordance with the EPA protocol EPA/600/R-93/116 for the identification of asbestos in bulk building materials. Briefly, each sample was taken from at least three randomly selected areas. The samples were weighed (*RawMaterialWeight*) on an analytical balance (0.1 milligram sensitivity), ashed in a low temperature plasma etcher to remove the organic component and weighed (*AfterAshWeight*). After a brief dissolution of the acid soluble component in concentrated hydrochloric acid, the suspension was immediately diluted in about 20 ml of 0.2 micron-filter, deionized water and filtered through a dry, pre-weighed 0.1 micron polycarbonate (PC) filter. After drying, the filter was weighed again (*AfterHydrolysisWeight*) and processed using EPA indirect method 68-02-3266. The samples were coated with a thin film of carbon in a vacuum evaporator. After dissolution of the filter debris in chloroform, the sample was placed on a 200 mesh copper TEM grid and examined under the TEM microscope. After confirmation of the principal mineral type by diffraction and EDS chemistry, a visual estimate of the concentration of asbestos relative to nonasbestos was determined.

Disclaimer This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client. Results are subject to the variation in the layers of the sample, the accuracy of the balance, the visual estimate on the microscope as well as other variations within the procedure. Therefore, the values of the weight percentages may vary by as much as 10%.

If further clarification of these results is needed, please do not hesitate to call me. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris
Laboratory Director

7619 6th Avenue NW, Seattle, WA 98117 (206) 781-0155 (206) 789-8424 (FAX)

+617 W R GRACE 221 P04/13 MAY 04 '00 10:23

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report Number: 000206

Report Date: March 22, 2000

Client Information	
Project Name:	Vermiculite Expansion Plant
Project No.:	Not Available
P. O. No.:	Not Available

Tracking Information		
Login:	Mar 6, 2000	*By:* DW
Reviewed:	Mar 22, 2000	*By:* JH
Final Review:	Mar 22, 2000	*By:* JH

Analysis Information	
Sample Type:	Bulk
Analysis Type:	Semi-Quantitative
Reference No.:	EPA/600/R-93/116

FINAL TABLE

Transmission Electron Microscopy – Semi-Quantitative – Bulk Sample Analysis

Lab/Cor Sample No.	Client Sample No.	Description	Asbestos Type	Weight Percent	Other Components	Weight Percent	Prepped By	Prep Date(s)	Analyst	Analysis Date
000206-01	94200	Dust from Rafter	Actinolite Tremolite Total Asbestos	0.95 0.47 1.42	Organics Acid Solubles Other Nonasbestos	9.30 43.38 45.90	DW	03/13/00	JH	03/21/00
000206-02	94201	Insulation on South Wall near Office	Chrysotile Actinolite Total Asbestos	1.90 0.19 2.09	Organics Acid Solubles Other Nonasbestos	3.07 77.93 16.91	DW	03/21/00	JH	03/21/00
000206-03	94202	Dust from West Wall Framing	Actinolite Tremolite Total Asbestos	0.39 0.20 0.59	Organics Acid Solubles Other Nonasbestos	79.67 0.70 19.04	DW	03/13/00	JH	03/21/00

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report Number: 000206

Report Date: Mar 22, 2000

Client: EPA - Region 10
Project Name: Vermiculite Expansion Plant
Sample No.: 94200
Description: Dust from Rafter

Lab/Cor Sample No.: 000206-01
Analyst: JH
Analysis Date: Mar 21, 2000

TEM BULK ANALYSIS – RAW DATA

Description	Weight (grams)			Weight %
	Paper	Paper/Filter + Particulate	Particulate	
Raw Material	17.2474	17.2829	0.0355	
After Ashing	17.2474	17.2796	0.0322	9.30
After Hydrolysis	0.2351	0.2423	0.0042	43.38

QUALITATIVE INSPECTION

Description	Visual Estimate %	Total %
Normalized Particulate Factor	0.00	
Microscopic Inspection:		
[% Chrysotile]	*ND	ND
[% Actinolite]	2.00	0.95
[% Anthophyllite]	ND	ND
[% Crocidolite]	ND	ND
[% Grunerite]	ND	ND
[% Tremolite]	1.00	0.47
[% Nonasbestos]	ND	45.90

*ND = None Detected

$$\frac{RawMaterialWeight - AfterAshWeight}{RawMaterialWeight} \times 100 = OrganicsWeight\%$$

$$\frac{AfterAshWeight - AfterHydrolysisWeight}{RawMaterialWeight} \times 100 = AcidSolublesWeight\%$$

00020600.BUL

+617 W R GRACE 271 P06/13 MAY 04 '00 10:24

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report Number: 000206

Report Date: Mar 22, 2000

Client: EPA - Region 10
Project Name: Vermiculite Expansion Plant
Sample No.: 94201
Description: Insulation on South Wall near Office

Lab/Cor Sample No.: 000206-02
Analyst: JH
Analysis Date: Mar 21, 2000

TEM BULK ANALYSIS – RAW DATA

	Weight (grams)			
Description	Paper	Paper/Filter + Particulate	Particulate	Weight %
Raw Material	17.2013	17.2371	0.0358	
After Ashing	17.2013	17.2360	0.0347	3.07
After Hydrolysis	0.2351	0.2398	0.0017	77.93

QUALITATIVE INSPECTION

Description	Visual Estimate %	Total %
Normalized Particulate Factor	0.00	
Microscopic Inspection:		
[% Chrysotile]	10.00	1.90
[% Actinolite]	1.00	0.19
[% Anthophyllite]	*ND	ND
[% Crocidolite]	ND	ND
[% Grunerite]	ND	ND
[% Tremolite]	ND	ND
[% Nonasbestos]	ND	16.91

*ND = None Detected

$$\frac{RawMaterialWeight - AfterAshWeight}{RawMaterialWeight} \times 100 = OrganicsWeight\%$$

$$\frac{AfterAshWeight - AfterHydrolysisWeight}{RawMaterialWeight} \times 100 = AcidSolublesWeight\%$$

+617 W R GRACE 271 P07/13 MAY 04 '00 10:24

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report Number: 000206

Client: EPA - Region 10
Project Name: Vermiculite Expansion Plant
Sample No.: 94202
Description: Dust from West Wall Framing

Report Date: Mar 22, 2000
Lab/Cor Sample No.: 000206-03
Analyst: JH
Analysis Date: Mar 21, 2000

TEM BULK ANALYSIS – RAW DATA

Description	Weight (grams)			Weight %
	Paper	Paper/Filter + Particulate	Particulate	
Raw Material	17.5249	17.5677	0.0428	
After Ashing	17.5249	17.5336	0.0087	79.67
After Hydrolysis	0.2351	0.2402	0.0021	0.70

QUALITATIVE INSPECTION

Description	Visual Estimate %	Total %
Normalized Particulate Factor	0.00	
Microscopic Inspection:		
[% Chrysotile]	*ND	ND
[% Actinolite]	2.00	0.39
[% Anthophyllite]	ND	ND
[% Crocidolite]	ND	ND
[% Grunerite]	ND	ND
[% Tremolite]	1.00	0.20
[% Nonasbestos]	ND	19.04

*ND = None Detected

$$\frac{RawMaterialWeight - AfterAshWeight}{RawMaterialWeight} \times 100 = OrganicsWeight\%$$

$$\frac{AfterAshWeight - AfterHydrolysisWeight}{RawMaterialWeight} \times 100 = AcidSolublesWeight\%$$

00020600.BUL

+617 W R GRACE 271 P08/13 MAY 04 '00 10:25

APPENDIX B

APPENDIX B

BUILDING OWNER'S LETTER

CITY LIQUIDATORS

MAIN OFFICE & WAREHOUSE
823 S.E. Third Avenue
Portland, Oregon 97214
Phone (503) 238-1367
FAX 503-231-9139

VANCOUVER STORE
902 Main Street
Vancouver, Washington 98660
Phone (360) 694-9863
FAX 360-694-7937

SAVE TIME
FAX US
503-231-9139

April 2, 2000

W. R. Grace & Company
62 Wittemore Ave.
Cambridge, Ma. 02120

Attn: Barry J. Conlon
Construction Products Division

Re: 2303 N. Harding Ave.
Portland, Oregon

We have been notified by the E.P.A. of some asbestos problems your company left in the building you leased from us and others for the past 40 years.

Please forward this package to the proper people in your company and fax us back with their name and phone numbers.

As you can see, this matter needs immediate attention.

Thank you for your cooperation.

Walt Pelett

WP:dcl

Bob Butler 503-222 4949

Jim Gish
Cell Phone
303.887.7404

APPENDIX C

GRACE BULK SAMPLE DATA

R. R. Marriam, Consultant
Remediation Management Department

GRACE

W. R. Grace & Co.
6401 Poplar Ave., Suite 301
Memphis, TN 38119-4840

Tel: (901) 820-2023
Fax: (901) 820-2061

Sent Via Fax (503/229-5265)

June 28, 2000

Mr. Kevin V. McCrann
Oregon Department of Environmental Quality
2020 SW 4th Ave., Suite 400
Portland, OR 97201-4987

Dear Kevin:

Attached you will find the analysis for the 10 samples collected from the former vermiculite expansion plant building at 2303 North Harding Street, Portland, OR on June 6, 2000. The samples were collected by Mr. James Stout, Radian International (Denver office) and sent to the RJ Lee Group, Inc., Monroeville, PA, attention of Mr. Drew Van Orden. Please feel free to contact Mr. Van Orden to discuss the analytical methods and techniques.

Mr. Jan Pederson, Partner, ACME Scenic & Display, Inc. (current lessee of the property on Harding Street) was kind enough to show Mr. Stout where the three samples were collected by EPA. Mr. Stout included samples from the EPA locations in his collection regime. As near as we can tell, the three samples have the following correlation:

3025449 corresponds with EPA Sample 94200
3025445 corresponds with EPA Sample 94201
3025448 corresponds with EPA Sample 94202

Please advise if additional information is required.

Yours very truly,

R. R. Marriam
Consultant

jm
Attach.

cc: D. M. Cleary
R. J. Medler
B. E. O'Connell

f:\shared\jmiller\word\mccrann628.doc

1-617-498-4947

RJ LeeGroup, Inc.

350 Hochberg Road, Monroeville, PA 15146
(724) 387-1869 • FAX (724) 733-1799

To:	Mr. Bob Marriam, Esquire WRG
Fax #:	(901) 820-2061
From:	Drew R. Van Orden
Date:	June 22, 2000
Subject:	Portland

Number of pages (including cover page): 5

Message:

The following is the report on the Portland samples.

If you have any questions, please feel free to either call me or e-mail me at drew@rjlg.com.

This fax is legally privileged and confidential information intended for the addressee named above. Any review, dissemination, or use of this information by persons other than the addressee is strictly prohibited. If you have received this fax in error, please notify us immediately by telephone at the number listed above.

RJ Lee Group, Inc.

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

The Materials Characterization Specialists

June 19, 2000

Mr. Jim Stout
URS Radian
707 Seventeenth St.
Suite 3400
Denver, CO 80202

RE: Portland Samples
LSH002397

Dear Mr. Stout:

Samples collected at a facility labeled as "Portland" have been analyzed for asbestos content. The samples were collected by URS Radian and were received at RJ Lee Group on June 12, 2000. The chain-of-custody for these samples is attached to the report.

The samples were analyzed following EPA/600/R-93/116 protocol. The particles in each sample were examined using a stereo binocular microscope. All particles suspected of being asbestos were picked out of the sample and weighed. Polarized light microscopy was used to verify the mineral content of the suspected asbestos. No attempt was made to identify or quantify the other particles in the sample.

Table 1 summarizes the analyses of the samples. Samples P02-05 and P02-06 contained a trace level of amphibole asbestos (tremolite/actinolite). Samples P01-01, P01-02, and P01-03 contained low levels of chrysotile.

The National Voluntary Laboratory Accreditation Program (NVLAP) accredits RJ Lee Group for asbestos fiber analysis (lab #101208-00). This report may not be used to claim product endorsement by NVLAP or any agency of the US government.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

If you have any questions on this report or if we can be of further assistance, please feel free to call me.

Sincerely,

Drew R Van Orden

Drew R. Van Orden, PE
Senior Scientist

Attachement

Mr. Jim Stout
LSH002397

Table 1 Report of Analysis of Samples by Polarized Light Microscopy

Method: EPA/600/R-93/116

RJ Lee Group No	Client No.	Description	Homogeneous	Chrysotile	Amphibole	Analyst	Date Analyzed
3025443	P01-01	Concrete in wall panel, SE corner warehouse	Yes	Trace	ND	B. Osgood	6/19/00
3025444	P01-02	Concrete in wall panel, SE corner warehouse	Yes	Trace	ND	B. Osgood	6/19/00
3025445	P01-03	Concrete in wall panel, SE corner warehouse	Yes	0.38 %	ND	B. Osgood	6/19/00
3025446	P02-01	Dust-west wall of machine area, SW corner	Yes	ND	ND	B. Osgood	6/19/00
3025447	P02-02	Dust-west wall of machine area, SW corner	Yes	ND	ND	B. Osgood	6/19/00
3025448	P02-03	Dust-west wall of machine area, right of door	Yes	ND	ND	B. Osgood	6/19/00
3025449	P02-04	Dust from beam above machine area	Yes	ND	ND	B. Osgood	6/19/00
3025450	P02-05	Dust at bottom of ramp	Yes	ND	Trace	B. Osgood	6/19/00
3025451	P02-06	Dust under ramp	Yes	ND	Trace	B. Osgood	6/19/00
3025452	P02-07	Dust above office area	Yes	ND	ND	B. Osgood	6/19/00

URS
Radian

- Libby LSH02397

MEMORANDUM

To: Bob Marian

cc:

From: Jim Stout

Date: 8 June 2000

Subject: **Portland Samples**

F = Friable
NF = Non-Friable

P01-01	Concrete in wall panel, SE corner warehouse	NF
P01-02	Concrete in wall panel, SE corner warehouse	NF
P01-03	Concrete in wall panel, SE corner warehouse	NF
P02-01	Dust–west wall of machine area, SW corner	F
P02-02	Dust–west wall of machine area, SW corner	F
P02-03	Dust–east wall of machine area, right of door	F
P02-04	Dust from beam above machine area	F
P02-05	Dust at bottom of ramp	F
P02-06	Dust under ramp	F
P02-07	Dust above officer area	F

Suspect materials:

Floor tile
Lino
Sheetrock mud and tape

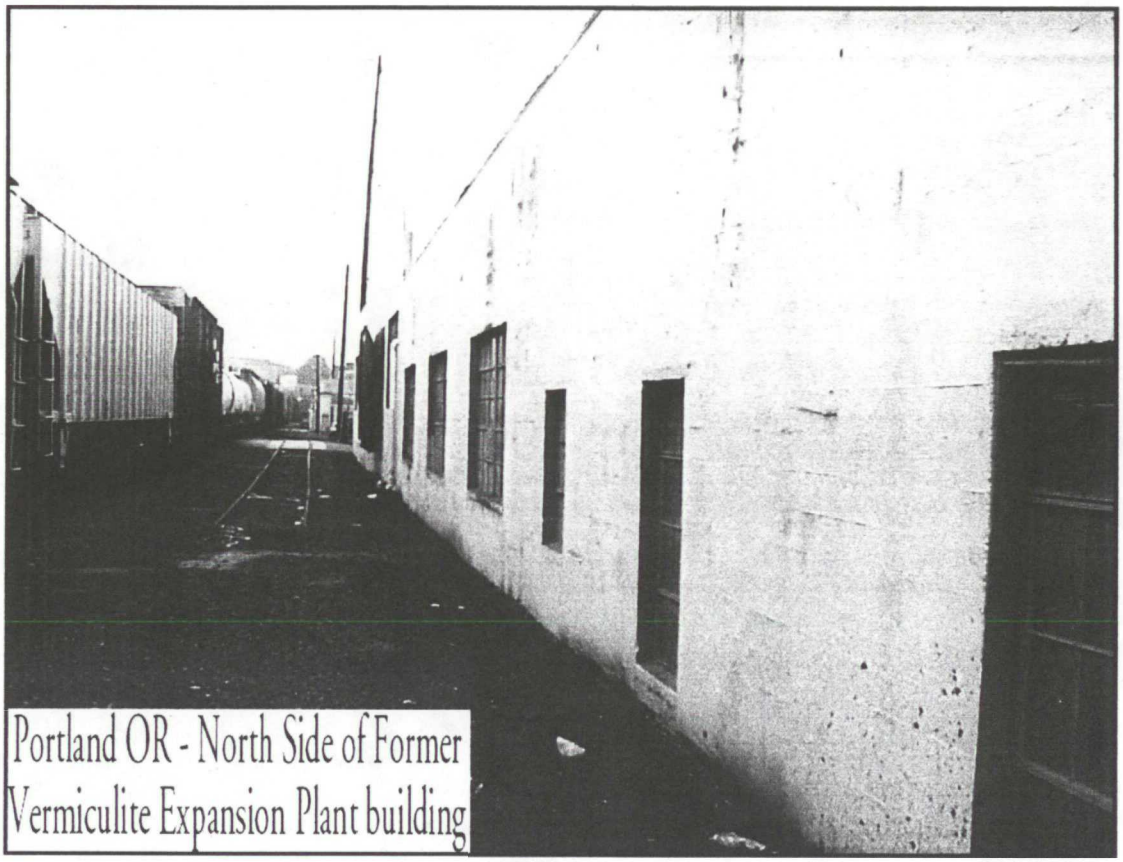
Jim Stout 6/9/00 0914
Relinquished by: Date & Time

Lori Ann Summers 6/12/00 1150
Received by: Date & Time

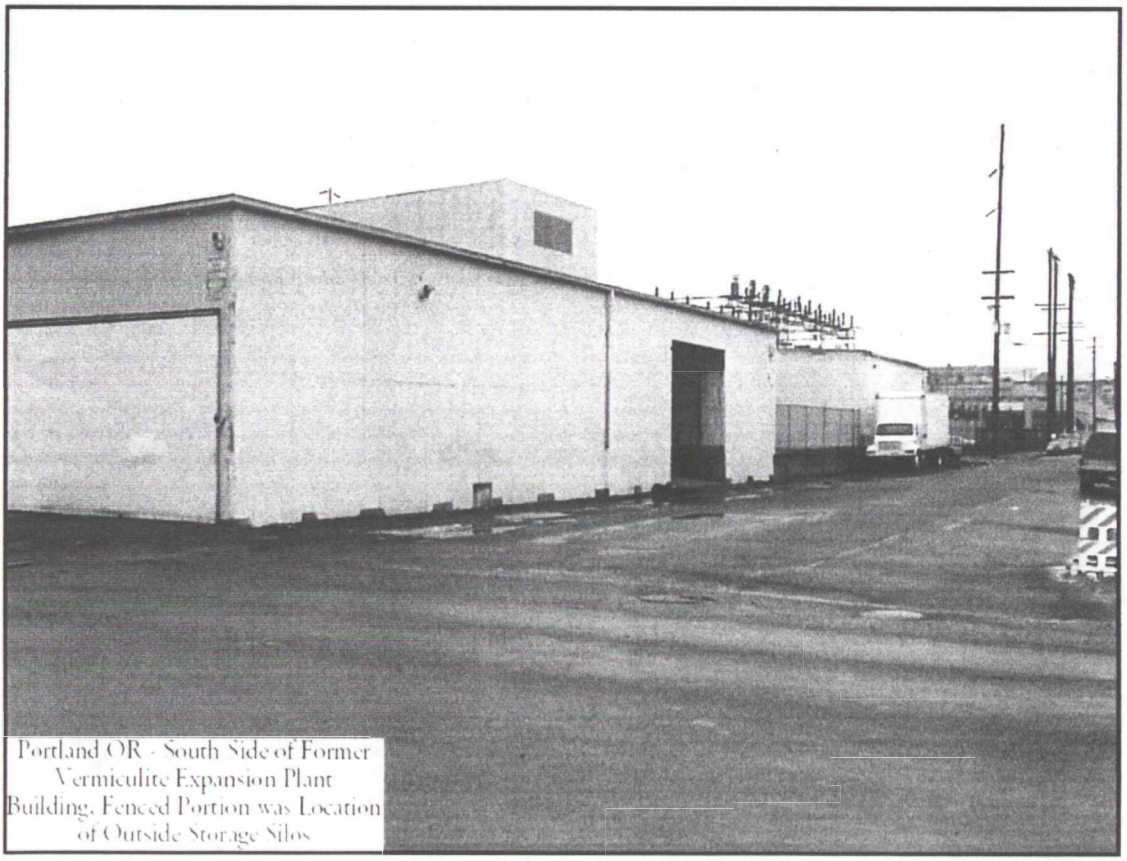
APPENDIX D

APPENDIX D

BUILDING PHOTOGRAPHS

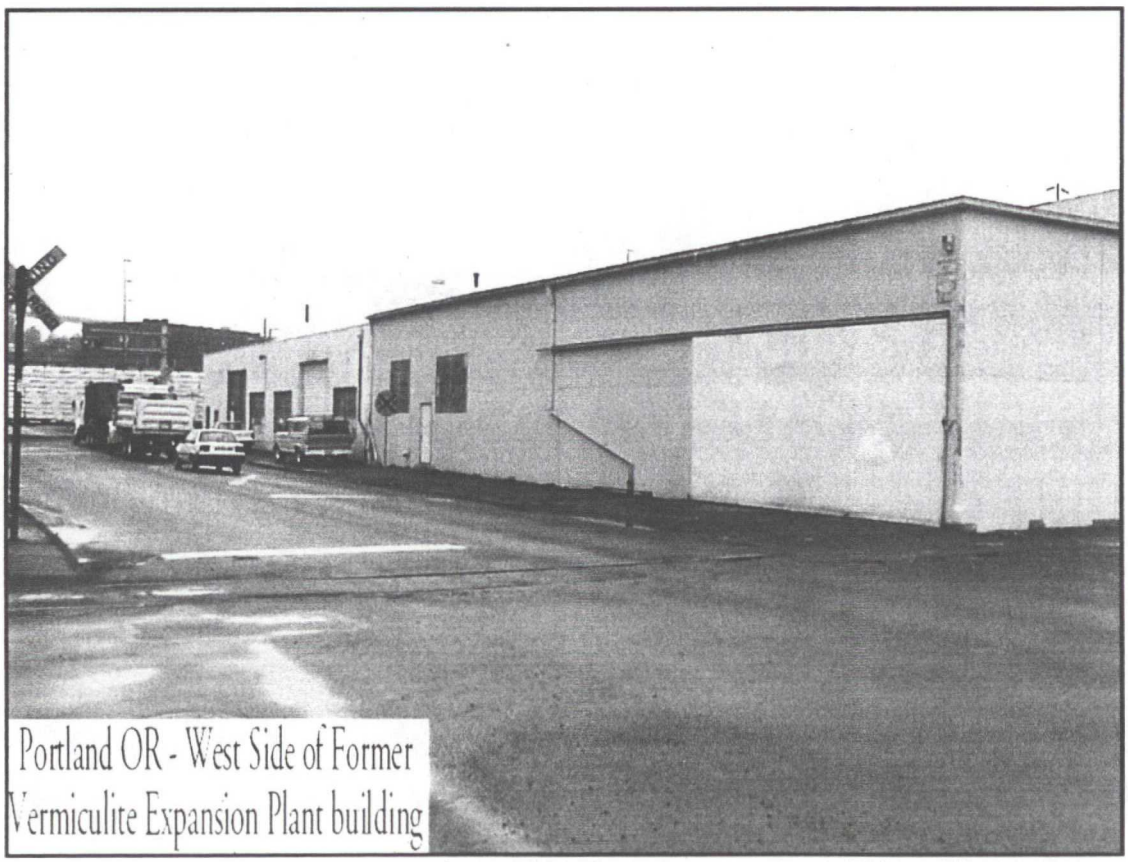


Portland OR - North Side of Former Vermiculite Expansion Plant building



Portland OR - South Side of Former Vermiculite Expansion Plant Building, Fenced Portion was Location of Outside Storage Silos

Portland OR - East Side of Former Expansion Plant Building. Elevation on Top was Location for Expanding Furnace and Support Structures



Portland OR - West Side of Former Vermiculite Expansion Plant building

APPENDIX E

APPENDIX E

BUILDING DECONTAMINATION PLAN

BUILDING DECONTAMINATION PLAN
2335 NORTH HARDING REMOVAL ACTION
PORTLAND, OREGON

PREPARED BY ACandS, Inc.

1.0 GENERAL

The following Decontamination Plan will be implemented for the decontamination of an area approximately fifty (50) by seventy-five (75) feet located at 2335 North Harding, Portland, Oregon.

2.0 DECONTAMINATION FACILITIES

ACandS will provide a decontamination facility (decon) to include a personnel decon and a waste load-out facility. Under this provision, the personnel decon units will be the only means of worker ingress and egress to the work area. All material, equipment and properly packaged waste will exit the work area through the waste load-out facility.

2.1 Personnel Decontamination Unit

The Personnel Decon Unit will consist of a serial arrangement of five (5) connected rooms, designated the Clean Room, the Air Lock, the Shower Room, the Air Lock and the Equipment Room. The floor to ceiling height will not be less than 6 feet 6 inches. Access to each of these five connected rooms will be protected by constructing overlapping layers of 6-mil polyethylene (poly) plastic sheeting to form a triple flap to each room. Construction materials will include two by four lumber, plywood, metal shower pan and opaque poly sheeting.

2.1.1 Clean Room: The clean room will be visually separated from the rest of the building for the purpose of allowing personnel to change into protective clothing. The clean room will also act as a storeroom for employee's street clothing, respirators, towels, protective clothing, etc., and as an information center for the posting of required documents and emergency information.

2.1.2 Air Locks: There will be an air lock installed on both sides of the shower. The purpose of these two extra rooms are to provide an additional measure of protection to prevent asbestos fibers from escaping the contaminated areas of the decon and entering the clean areas.

2.1.3 Shower Room: ACandS will provide a completely water tight operational shower to be used for transit by cleanly dressed workers heading for the work area from the clean room and for showering workers heading out of the work area after undressing in the equipment room. The shower room will be constructed in a "pass through" design, a configuration that will require the worker to pass from the contaminated equipment room, through the shower, and

into the clean room without stepping back onto a contaminated area. The decon unit will be equipped with three showerheads.

For sanitary reasons, a free draining floor will be constructed on the top of the shower pan, and the showerheads will be mounted so as to cause the water running down the wall to drip into the shower pan. Each showerhead will be equipped with both hot and cold which can be adjusted by the person taking the shower. Soap and towels will always be present. The shower room will be cleaned and disinfected at the end of each shift.

Each shower pan will be equipped with a wastewater filtering system. Wastewater generated on this project will be filtered down to five microns before being discharged into a sanitary sewer.

2.1.4 Equipment Room: This is a change and transit room for personnel who have had access to the contaminated work area. All work equipment, footwear and additional contaminated work clothing will be left in this room. The equipment room will have two exits, one leading to the contaminated work area and the other leading to the overlapping poly flaps leading into the air lock located between the shower room and the equipment room.

2.2 Waste Load-out Facility

The Waste Load-out Facility will consist of a serial arrangement of Three (3) connected rooms, designated the Clean Room, the Cleaning Room and the Dirty Room. The floor to ceiling height will not be less than 6 feet 6 inches. Each of these three connected rooms will be separated by constructing overlapping layers of 6-mil polyethylene (poly) plastic sheeting to form a triple flap to each room. Construction materials will include two by four lumber, plywood and opaque poly sheeting. The cleaning room will be equipped with a HEPA vacuum, amended water and towels

3.0 NEGATIVE PRESSURE ENCLOSURE SYSTEM

3.1 **Disable Ventilating Systems:** All ventilating systems or any other system bringing air into the work area will be disabled. Disconnecting power and/or installing plywood barriers over intake and exhaust duct will accomplish this.

3.2 **Lockout Power to the Work Area:** Switching off all breakers or removing all fuses that service the work area will lock out all power. The circuits will be labeled "DANGER circuit being worked on". The panel will then be locked and all keys will be under the control of the project superintendent. A "tick-tester" will be available at all times in the work area to verify that all wires have been de-energized.

3.3 **Install Temporary Electrical Service:** ACandS will provide a weatherproof, grounded temporary electrical service and distribution system panel. The panel

will consist of a three (3) phase, one hundred (100) amp load center equipped with sixteen (16) 110 volt ground fault circuit interrupter receptacles, one (1) 220 volt receptacle and one (1) 240 volt 3 phase receptacle. This panel is of sufficient capacity to power the negative air machines, temporary lighting, airless sprayers, power washer, water filtration system, manometer, water heater and the necessary air sampling equipment.

3.4 **Pre-cleaning** The items which cannot be moved from the work area will be cleaned with a HEPA filtered vacuum cleaner and wet wiped and then covered with 6-mil poly sheeting and sealed with duct tape. All surfaces where a critical barrier will be installed will be HEPA vacuumed and/or wet wiped prior to installing the barrier.

3.5 **Critical Barriers:** Critical barriers will be installed at all exits or openings, including doorways, duct systems, manholes, floor openings, drains, wall penetrations, etc., to ensure that the work area is isolated from the outside air. Critical barriers will consist of 6-mil poly sheeting, spray adhesive, 2" duct tape and staples as necessary. As all surfaces within the buildings are to be considered contaminated and will have to be cleaned, poly sheeting will not be installed on those surfaces. Electrical conduit, junction boxes and load centers will be sealed with two (2) layers of 6-mil poly sheeting and duct tape. Care will be taken to ensure that all circuits are dry prior to re-energizing the work area.

3.6 **Floor Preparation:** The floors within the work area will be HEPA vacuumed and covered with 10-mil Dura-scrim reinforced poly sheeting for the purpose of capturing water used to decontaminate building surfaces.

3.7 **Negative Air Machine Requirements:** For the purpose of this Decontamination Plan a Negative Air Machine (NAM) is defined as a self contained filtering machine capable of producing air flow of 2000 cubic feet of air per minute while pulling the air through a series of filters including a primary filter, secondary filter and a HEPA filter.

3.7.1 **NAM Calculation:**

112,500 cubic feet of work area / 4 air changes per hour = 7,500cfm

7,500cfm / 2000cfm NAM capacity = 4 NAMs required

3.8 **Pressure Differential Monitoring:** ACandS will continuously monitor and record the pressure differential between the work area and the area outside the work area with a manometer equipped with a strip chart-recording device.

3.9 **Warning Signs:** ACandS will post a sufficient number of warning signs to notify all persons in the vicinity of the work area of the dangers involved. The warning signs will be 20 inches high and 14 inches wide and will contain the following wording:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE
CLOTHING REQUIRED IN THIS AREA

3.10 **Pre-abatement Visual Inspection:** After the items listed above have been properly completed and the negative pressure has been verified, the Asbestos Abatement Supervisor will request that the on-site Asbestos Inspector conduct a pre-abatement visual inspection. When the Asbestos Inspector determines that the containment is complete and functioning properly, decontamination of the building surfaces will begin.

4.0 DECONTAMINATION OF THE WORK AREA

4.1 **HEPA Filtered Vacuuming:** The decontamination of the buildings will begin by vacuuming all horizontal surfaces as well as vertical cracks and seams. A variety of vacuum attachments will be utilized to dislodge and capture the dust and debris that has accumulated over the years. The air will be misted constantly with amended water through airless sprayers during the course of this process.

4.2 **Pressure Washing:** Two different types of power washers will be utilized to decontaminate the work area. Airless pumps equipped with malleable tip extensions will be used to blast hard to reach areas. This system uses about 1gpm and involves a 215 airless tip with 3000psi at the orifice that quickly dissipates the farther away from the surface it gets.

The bulk pressure washing will be accomplished using a power washer that can produce up to 4000psi with a number 2, 25degree pressure washing tip. This system generates about 1.5gpm with constant use.

The pressure washing procedure will be started at the top of the structures and proceed to the bottom. Once the bottom is reached the procedure will be repeated. After all waste-water has been removed and filtered, the 10-mil Dura-scrim reinforced poly sheeting will be lifted from the floor, properly packaged and disposed of as contaminated waste. The floor will be decontaminated using low-pressure water, nylon brushes and wet-vacuums.

4.3 **Visual Inspection, Encapsulation and Clearance Air Testing:** At the time of the second cleaning, all tools and equipment remaining in the work area will be decontaminated and removed from the area and the decon facilities will be final cleaned. Once this is completed the area will be ready for the final visual inspection by the Asbestos Inspector. If the results of the inspection are satisfactory, the Asbestos Inspector will release the area for encapsulation. Post removal encapsulant will then be applied with an airless sprayer to all surfaces within the containment. After the encapsulant has had sufficient time to dry, the Asbestos Inspector will conduct aggressive final clearance air testing. If all

clearance criteria are met it will be safe to seal the intake side of the NAMs and turn them off. The negative pressure enclosure system will be dismantled and the area will be released to the owner.

5.0 WASTE DISPOSAL

5.1 **Landfill:** All contaminated waste generated by this removal action will be transported by Waste Management, Inc. in forty (40) yard closed top dumpsters to the Hillsboro Landfill located in Hillsboro, Oregon.

5.2 **Waste Container:** All waste hauling containers will be lined with one (1) layer of 6-mil poly sheeting.

5.3 **OSHA Warning Labels:** All packaged asbestos waste will be labeled with the following information:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND
LUNG DISEASE HAZARD

WARNING:
DO NOT BREATH ASBESTOS FIBERS

5.4 **Generator Labels:** All asbestos waste packages will be labeled with the required Generator information that includes the owner's name and the location at which the waste was generated

5.5 **DOT Transportation Label:** All waste packages will be labeled with the two (2) required DOT labels. The first label is the 9 diamond placard with vertical black and white stripes on the upper half of the diamond and 9 on the lower half. The second label reads as follows:

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS)
ORM-E, NA-9188

6.0 TRAINING REQUIREMENTS

6.1 **Asbestos Abatement Workers:** All workers will be accredited as Abatement Workers as required by the Asbestos Model Accreditation Plan, 40 CFR 763 Appendix C to Subpart E and 29 CFR 1926.1101. All Asbestos Abatement Workers will be certified and accredited as Asbestos Abatement Workers as required by the State of Oregon Environmental Regulations

6.2 **Asbestos Abatement Contractor/Supervisor:** The on-site superintendent will be accredited as an Asbestos Abatement Contractor/Supervisor as required by the Asbestos Model Accreditation Plan, 40 CFR 763 Appendix C to Subpart E and 29 CFR 1926.1101. The on-site superintendent will be certified and accredited as an

Asbestos Abatement Supervisor as required by the State of Oregon Environmental Regulations.

6.3 **Other Training:** All personnel involved in the building decontamination project will be required to undergo site specific safety orientation and site specific hazardous communication training.

7.0 MEDICAL MONITORING

In compliance with the OSHA medical surveillance requirements, each person entering a regulated work area will be required to undergo an annual physical with an emphasis on pulmonary function. A Physicians Written Opinion will be on file at the work site with the following information:

- Whether the person has any detected medical condition that would place the person at an increased risk of material health impairment from exposure to asbestos.
- Any recommended limitation on the person or on the use of personal protective equipment such as respirators.
- Statement that the person has been informed by the physician of the results of the examination and any medical conditions that may result from exposure to asbestos.
- Statement that person is able to wear and use the type of respiratory protection proposed for the project.

8.0 PERSONAL AIR MONITORING

Personal air monitoring to meet OSHA requirements for determination of a full shift Time Weighted Average and Excursion Limit fiber counts for the type of respiratory protection provided will be performed by a third party air monitoring specialist and the sampling results will be posted in the clean room of the decon facility within twenty-four (24) hours.

All ambient, work area and clearance sampling will be the responsibility of the owner's representative.

APPENDIX F

APPENDIX F

PROJECT BULK SAMPLE DATA

FEB 1 5 2001

RJ LeeGroup, Inc.

350 Hochberg Road
Monroeville, PA 15146
Tel: (724) 325-1776
Fax: (724) 733-1799

The Materials Characterization Specialists

February 14, 2001

Mr. Robert Marriam
Remedium Group, Inc.
6401 Poplar Ave.
Suite 301
Memphis, TN 38119-4840

RE: Portland Samples
LSH101548

Dear Mr. Marriam:

RJ Lee Group has completed our analyses of the three sets of samples from Portland (collected January 8 and 17, 2001). Each sample was analyzed for fibrous asbestos (asbestiform) content using transmission electron microscopy (TEM) following the method outlined in ASTM D-5756. The count sheets TEM analyses are attached to this report in Appendix A. The results of these analyses are included in Tables 1 – 3.

A representative portion of each sample was dried, weighed, and then ashed in a muffle furnace at 480 °C. The ash was weighed and dispersed in deionized water using an ultrasonic bath. An aliquot of the suspension was deposited onto a 25 mm filter (effective filter area 385 mm^2). The filter was dried and prepared for TEM analysis using a direct preparation procedure as described in the ASTM D-5756 procedure.

The National Voluntary Laboratory Accreditation Program (NVLAP) accredits RJ Lee Group (#101208-0) for asbestos fiber analysis. This report may not be used to claim product endorsement by NVLAP or any agency of the US government. The report may be reproduced, but only in full. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

If you have any questions concerning this report, or if we can be of further assistance, please feel free to call me.

Sincerely,

Drew Van Orden

Drew R. Van Orden, PE
Senior Scientist

cc: Mr. Jim Stout
URS Corporation
707 17th St.
Suite 3400
Denver, CO 80202

Table 1. Transmission Electron Microscopy Results for A-Group Samples

Asbestos Structures 0.5 µm ≤ Length < 5 µm
Magnification 20,000 X

RJ Lee Group Sample #	Client Sample #	Asbestos Count		Area Analyzed, mm^2	Dilution Factor
		Chrysotile	Asbestiform Amphibole		
0115510HTP	A-1	0	2	0.0813	0.005
0115511HTP	A-2	3	0	0.0813	0.005
0115512HTP	A-3	2	0	0.0813	0.005
0115513HTP	A-4	4	0	0.0813	0.005
0115514HTP	A-5	0	0	0.0813	0.005

Asbestos Structures Length ≥ 5 µm
Magnification 5,000 X

RJ Lee Group Sample #	Client Sample #	Asbestos Count		Area Analyzed, mm^2	Dilution Factor
		Chrysotile	Asbestiform Amphibole		
0115510HTP/L	A-1	0	1	0.2847	0.005
0115511HTP/L	A-2	1	0	0.2847	0.005
0115512HTP/L	A-3	1	2	0.2847	0.005
0115513HTP/L	A-4	2	5	0.2847	0.005
0115514HTP/L	A-5	0	2	0.2847	0.005

Asbestos Concentration

RJ Lee Group Sample #	Client Sample #	Material Used, g	Analytical Sensitivity, Wt %	Asbestos Concentration, Wt %
0115510HTP/L	A-1	0.0597	1.56×10^{-5}	6.74×10^{-3}
0115511HTP/L	A-2	0.0698	1.34×10^{-5}	1.87×10^{-4}
0115512HTP/L	A-3	0.1303	7.15×10^{-6}	1.39×10^{-3}
0115513HTP/L	A-4	0.0727	1.28×10^{-5}	2.19×10^{-2}
0115514HTP/L	A-5	0.1111	8.39×10^{-6}	3.51×10^{-3}

Table 2. Transmission Electron Microscopy Results for B-Group Samples

Asbestos Structures 0.5 µm ≤ Length < 5 µm
Magnification 20,000 X

RJ Lee Group Sample #	Client Sample #	Asbestos Count		Area Analyzed, mm^2	Dilution Factor
		Chrysotile	Asbestiform Amphibole		
0115515HTP	B-1	34	1	0.0407	0.005
0115516HTP	B-2	80	0	0.0081	0.005
0115517HTP	B-3	126	0	0.0081	0.005
0115518HTP	B-4	109	0	0.0081	0.005
0115519HTP	B-5	41	0	0.0081	0.005
0115520HTP	B-6	70	0	0.0081	0.005

Asbestos Structures Length ≥ 5 µm
Magnification 5,000 X

RJ Lee Group Sample #	Client Sample #	Asbestos Count		Area Analyzed, mm^2	Dilution Factor
		Chrysotile	Asbestiform Amphibole		
0115515HTP/L	B-1	16	7	0.2440	0.005
0115516HTP/L	B-2	73	3	0.0813	0.005
0115517HTP/L	B-3	95	9	0.0488	0.005
0115518HTP/L	B-4	78	8	0.0732	0.005
0115519HTP/L	B-5	86	4	0.1220	0.005
0115520HTP/L	B-6	56	9	0.1708	0.005

Asbestos Concentration

RJ Lee Group Sample #	Client Sample #	Material Used, g	Analytical Sensitivity, Wt %	Asbestos Concentration, Wt %
0115515HTP/L	B-1	0.1288	1.00×10^{-5}	2.44×10^{-1}
0115516HTP/L	B-2	0.0826	5.85×10^{-5}	2.54×10^{-1}
0115517HTP/L	B-3	0.1200	5.37×10^{-5}	2.44×10^{-1}
0115518HTP/L	B-4	0.1161	4.39×10^{-5}	2.57×10^{-1}
0115519HTP/L	B-5	0.1011	3.98×10^{-5}	3.85×10^{-0}
0115520HTP/L	B-6	0.0848	4.21×10^{-5}	1.84×10^{-1}

Table 3. Transmission Electron Microscopy Results for C-Group Samples

Asbestos Structures 0.5 µm ≤ Length < 5 µm
Magnification 20,000 X

RJ Lee Group Sample #	Client Sample #	Asbestos Count		Area Analyzed, mm^2	Dilution Factor
		Chrysotile	Asbestiform Amphibole		
0116176HTP2	C-1	0	0	0.0843	0.001
0116177HTP2	C-2	11	0	0.0843	0.001
0116178HTP2	C-3	0	0	0.0843	0.001
0116179HTP2	C-4	0	1	0.0843	0.001
0116180HTP2	C-5	15	0	0.0843	0.001

Asbestos Structures Length ≥ 5 µm
Magnification 5,000 X

RJ Lee Group Sample #	Client Sample #	Asbestos Count		Area Analyzed, mm^2	Dilution Factor
		Chrysotile	Asbestiform Amphibole		
0116176HTP2/L	C-1	0	0	0.2951	0.001
0116177HTP2/L	C-2	1	0	0.2951	0.001
0116178HTP2/L	C-3	1	0	0.2951	0.001
0116179HTP2/L	C-4	0	2	0.2951	0.001
0116180HTP2/L	C-5	2	0	0.2951	0.001

Asbestos Concentration

RJ Lee Group Sample #	Client Sample #	Material Used, g	Analytical Sensitivity, Wt %	Asbestos Concentration, Wt %
0116176HTP2/L	C-1	0.0447	1.01×10^{-4}	$< 1.01 \times 10^{-4}$
0116177HTP2/L	C-2	0.0429	1.05×10^{-4}	9.73×10^{-3}
0116178HTP2/L	C-3	0.0486	6.99×10^{-5}	6.99×10^{-5}
0116179HTP2/L	C-4	0.0969	4.80×10^{-5}	7.77×10^{-2}
0116180HTP2/L	C-5	0.0629	7.15×10^{-5}	7.66×10^{-3}

Appendix A

TEM Count Sheets

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	10
RJL Sample #	0115510HTP	**Total Asbestos**	3
Client Sample #	A-1	**Total Non-Asbestos**	1
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	3.50	0.50	Nonasbestos	M	X		X	Actinolite	Cleavage
3	0			NSD						
4	0			NSD						
5	1	20.50	0.50	Amphibole		348		30134	Tremolite	Asbestiform
6	1	1.80	0.15	Amphibole		X		X	Tremolite	Asbestiform
7	0			NSD						
8	1	4.00	0.20	Amphibole		X		X	Tremolite	Asbestiform
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	25
RJL Sample #	0115510HTPL	**Total Asbestos**	0
Client Sample #	A-1	**Total Non-Asbestos**	3
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	7.50	0.90	Nonasbestos		395		30128	Tremolite	Cleavage
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	1	6.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
11	2	6.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	0			NSD						
19	0			NSD						
20	0			NSD						
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation	RJL QA Number	HQ18888
Project Number	LSH101548	Grid Openings	10
RJL Sample #	0115511HTP	Total Asbestos	3
Client Sample #	A-2	Total Non-Asbestos	4
Microscope	2000 FX	Filter	PC 385 mm^2
Accelerating Volt	120 Kv	Volume	.0 Liters
Magnification	21000 X	Grid Opening Area	0.0081 mm^2
Analyst	KA	Dilution Factor	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	3.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	1	1.50	0.07	Chrysotile	B			X		
6	2	1.00	0.15	Chrysotile	B			X		
7	1	3.70	0.25	Nonasbestos		X		X	Tremolite	Cleavage
8	1	1.10	0.07	Chrysotile	B			X		
8	2	3.10	0.25	Nonasbestos		X		X	Tremolite	Cleavage
9	0			NSD						
10	1	5.70	0.60	Nonasbestos		X		X	Tremolite	Cleavage

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	25
RJL Sample #	0115511HTPL	**Total Asbestos**	1
Client Sample #	A-2	**Total Non-Asbestos**	4
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	5.00	0.15	Chrysotile	B			30137		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	1	6.50	0.75	Nonasbestos		349		30138	Tremolite	Cleavage
9	0			NSD						
10	0			NSD						
11	1	7.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	1	5.00	0.25	Nonasbestos		350		X	Tremolite	Cleavage
18	1	6.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
19	0			NSD						
20	0			NSD						
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	10
RJL Sample #	0115512HTP	**Total Asbestos**	2
Client Sample #	A-3	**Total Non-Asbestos**	13
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	3.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
2	1	2.20	0.15	Nonasbestos		X		X	Tremolite	Cleavage
3	1	10.00	1.20	Nonasbestos		X		X	Tremolite	Cleavage
4	1	3.50	0.10	Chrysotile	B			30148		
5	1	1.60	0.10	Chrysotile				X		
6	1	2.10	0.20	Nonasbestos		X		X	Tremolite	Cleavage
7	1	2.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
7	2	5.60	0.75	Nonasbestos		X		X	Tremolite	Cleavage
7	3	2.70	0.25	Nonasbestos		X		X	Tremolite	Cleavage
8	0			NSD						
9	1	2.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
9	2	6.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
10	1	4.50	0.30	Nonasbestos		X		X	Tremolite	Cleavage
10	2	7.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
10	3	3.00	0.10	Nonasbestos		X		X	Tremolite	Cleavage
10	4	12.50	1.20	Nonasbestos		X		X	Tremolite	Cleavage

NSD - No Structures Detected

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	**RJL QA Number**	HQ18888
RJL Sample #	0115512HTPL	**Grid Openings**	25
Client Sample #	A-3	**Total Asbestos**	3
Microscope	2000 FX	**Total Non-Asbestos**	5
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0081 mm^2
EDS Disk		**Dilution Factor**	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	5.10	0.40	Nonasbestos		351		30141	Actinolite	Cleavage
3	1	6.00	0.10	Chrysotile	B			30144		
3	2	6.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
4	1	25.00	2.00	Nonasbestos		X		X	Tremolite	Cleavage
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	1	9.00	0.40	Amphibole		352		30145	Actinolite	Asbestiform
10	0			NSD						
11	0			NSD						
12	1	11.00	0.30	Amphibole		X		X	Actinolite	Asbestiform
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	1	5.50	1.00	Nonasbestos		X		X	Tremolite	Cleavage
19	1	5.10	0.70	Nonasbestos		X		X	Tremolite	Cleavage
20	0			NSD						
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	**RJL QA Number**	HQ18888
RJL Sample #	0115513HTP	**Grid Openings**	10
Client Sample #	A-4	**Total Asbestos**	5
Microscope	2000 FX	**Total Non-Asbestos**	13
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA/LH	**Grid Opening Area**	0.0081 mm^2
EDS Disk		**Dilution Factor**	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	2.10	0.20	Nonasbestos		X		X	Tremolite	Cleavage
2	0			NSD						
3	0			NSD						
4	1	0.50	0.06	Chrysotile				X		
4	2	1.25	0.10	Chrysotile				X		
4	3	2.10	0.20	Nonasbestos		X		X	Tremolite	Cleavage
4	4	3.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
4	5	2.50	0.15	Chrysotile	B				X	
5	1	3.25	0.40	Nonasbestos		X		X	Tremolite	Cleavage
5	2	0.70	0.10	Chrysotile				X		
5	3	1.25	0.20	Nonasbestos		X		X	Tremolite	Cleavage
6	1	1.75	0.25	Nonasbestos		X		X	Tremolite	Cleavage
6	2	2.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
7	0			NSD						
8	1	18.50	1.00	Amphibole		X		X	Tremolite	Asbestiform
9	1	5.90	0.40	Nonasbestos		X		X	Tremolite	Cleavage
9	2	3.25	0.20	Nonasbestos		X		X	Tremolite	Cleavage
9	3	5.50	0.45	Nonasbestos		X		X	Tremolite	Cleavage
10	1	6.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
10	2	2.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
10	3	2.50	0.50	Nonasbestos		X		X	Tremolite	Cleavage

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	25
RJL Sample #	0115513HTPL	**Total Asbestos**	6
Client Sample #	A-4	**Total Non-Asbestos**	5
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	18.00	0.50	Nonasbestos		355		30154	Tremolite	Cleavage
3	0			NSD						
4	1	6.50	0.07	Chrysotile				30157		
5	0			NSD						
6	1	10.50	0.30	Nonasbestos		X		X	Tremolite	Cleavage
7	1	6.50	0.10	Amphibole		356		30158	Tremolite	Asbestiform
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	1	11.50	0.50	Amphibole		X		X	Tremolite	Asbestiform
17	2	9.00	0.30	Amphibole	B	X		X	Tremolite	Asbestiform
18	0			NSD						
19	0			NSD						
20	1	6.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
20	2	17.00	0.05	Chrysotile	M			X		
21	0			NSD						
22	1	6.50	0.30	Amphibole		X		X	Tremolite	Asbestiform
23	1	5.20	0.20	Nonasbestos		X		X	Tremolite	Cleavage
24	0			NSD						
25	1	17.00	0.90	Nonasbestos		X		X	Tremolite	Cleavage

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	**LSH101548**	**Grid Openings**	10
RJL Sample #	**0115514HTP**	**Total Asbestos**	0
Client Sample #	A-5	**Total Non-Asbestos**	0
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	25
RJL Sample #	0115514HTPL	**Total Asbestos**	2
Client Sample #	A-5	**Total Non-Asbestos**	1
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	5.50	0.40	Nonasbestos		357		30162	Tremolite	Cleavage
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	0			NSD						
19	0			NSD						
20	1	14.50	0.35	Amphibole		358		30164	Tremolite	Asbestiform
20	2	15.50	0.50	Amphibole		X		X	Tremolite	Asbestiform
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group*, Inc
Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	5
RJL Sample #	0115515HTP	**Total Asbestos**	43
Client Sample #	B-1	**Total Non-Asbestos**	8
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	2.00	0.15	Amphibole	B	X		X	Tremolite	Asbestiform
1	2	0.55	0.15	Chrysotile	B			X		
1	3	3.50	0.20	Chrysotile	B			X		
1	4	0.80	0.07	Chrysotile				X		
1	5	0.50	0.05	Chrysotile				X		
2	1	10.50	0.50	Amphibole		361		30173	Tremolite	Asbestiform
2	2	0.50	0.10	Chrysotile	B			X		
2	3	1.25	0.07	Chrysotile	BM3			X		
2	4	61.00	0.25	Chrysotile	B			30175		
2	5	2.00	0.07	Chrysotile				X		
2	6	9.00	0.05	Chrysotile				X		
2	7	10.50	0.50	Nonasbestos		X		X	Tremolite	Cleavage
2	8	4.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
2	9	9.50	0.60	Amphibole		X		X	Tremolite	Asbestiform
3	1	3.20	0.05	Chrysotile				X		
3	2	1.90	0.07	Chrysotile	B			X		
3	3	1.90	0.05	Chrysotile				X		
3	4	1.00	0.07	Chrysotile				X		
3	5	2.00	0.20	Chrysotile				X		
3	6	2.00	0.15	Nonasbestos		X		X	Tremolite	Cleavage
3	7	1.80	0.05	Chrysotile	M			X		
3	8	32.00	0.75	Amphibole	M	X		X	Tremolite	Asbestiform
3	9	1.30	0.05	Chrysotile				X		
3	10	0.50	0.05	Chrysotile				X		
3	11	10.00	2.20	Nonasbestos		X		X	Tremolite	Cleavage
3	12	3.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
3	13	3.50	0.40	Chrysotile	B			X		
3	14	1.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
3	15	1.50	0.07	Chrysotile				X		
3	16	1.00	0.05	Chrysotile	M			X		
3	17	2.70	0.50	Nonasbestos		X		X	Tremolite	Cleavage
4	1	3.70	0.20	Chrysotile				X		
4	2	22.00	0.60	Amphibole		X		X	Tremolite	Asbestiform
4	3	1.50	0.10	Chrysotile	B			X		
4	4	2.50	0.10	Chrysotile				X		
4	5	0.50	0.05	Chrysotile				X		
4	6	6.00	0.05	Chrysotile				X		
4	7	1.70	0.03	Chrysotile				X		
4	8	2.70	0.05	Chrysotile				X		
4	9	2.25	0.10	Chrysotile	B			X		
4	10	1.50	0.05	Chrysotile				X		
4	11	2.00	0.05	Chrysotile				X		
4	12	1.30	0.10	Chrysotile	B			X		
5	1	10.00	0.60	Amphibole		X		X	Tremolite	Asbestiform

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	5
RJL Sample #	0115515HTP	**Total Asbestos**	43
Client Sample #	B-1	**Total Non-Asbestos**	8
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
5	2	0.90	0.05	Chrysotile				X		
5	3	0.75	0.05	Chrysotile				X		
5	4	1.75	0.20	Chrysotile				X		
5	5	1.50	0.07	Chrysotile				X		
5	6	1.50	0.10	Chrysotile	B			X		
5	7	0.60	0.05	Chrysotile				X		
5	8	1.50	0.20	Nonasbestos		X		X	Tremolite	Cleavage

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18888
Project Number	LSH101548	**Grid Openings**	25
RJL Sample #	0115515HTPL	**Total Asbestos**	15
Client Sample #	B-1	**Total Non-Asbestos**	16
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	1	14.50	0.75	Nonasbestos		359		30167	Tremolite	Cleavage
3	1	5.20	0.15	Nonasbestos		X		X	Tremolite	Cleavage
3	2	9.50	0.10	Chrysotile	B			30169		
4	1	17.00	0.07	Chrysotile	M2			X		
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	1	10.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
8	2	6.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
8	3	6.20	0.50	Nonasbestos		X		X	Tremolite	Cleavage
9	1	19.00	0.05	Chrysotile				X		
10	1	11.00	0.10	Chrysotile	B			X		
11	1	5.10	0.15	Nonasbestos		X		X	Tremolite	Cleavage
12	1	8.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
12	2	25.00	0.80	Nonasbestos		X		X	Tremolite	Cleavage
13	1	5.20	0.30	Nonasbestos		X		X	Tremolite	Cleavage
13	2	5.10	0.07	Chrysotile				X		
14	1	5.10	0.05	Chrysotile				X		
14	2	6.00	0.70	Nonasbestos		X		X	Tremolite	Cleavage
15	1	6.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
15	2	9.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
15	3	5.10	0.60	Nonasbestos		X		X	Tremolite	Cleavage
15	4	5.90	0.05	Chrysotile				X		
16	1	8.90	1.00	Nonasbestos		X		X	Tremolite	Cleavage
16	2	7.50	0.10	Chrysotile	B			X		
16	3	5.50	0.50	Chrysotile	B			X		
17	1	55.00	2.50	Amphibole	B	360		30170	Tremolite	Asbestiform
18	1	6.50	1.00	Nonasbestos		X		X	Tremolite	Cleavage
19	1	5.20	0.10	Chrysotile	B			30172		
19	2	13.00	0.20	Amphibole		X		X	Tremolite	Asbestiform
20	0			NSD						
21	0			NSD						
22	1	12.50	1.10	Nonasbestos		X		X	Tremolite	Cleavage
22	2	5.10	0.15	Chrysotile	B			X		
23	1	7.50	0.20	Chrysotile	B			X		
24	1	5.50	0.05	Chrysotile				X		
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115516HTP	**Total Asbestos**	92
Client Sample #	B-2	**Total Non-Asbestos**	9
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	8.00	0.70	Nonasbestos		X		X	Tremolite	Cleavage
1	2	1.25	0.15	Chrysotile	B			X		
1	3	2.00	0.05	Chrysotile				X		
1	4	2.10	0.20	Chrysotile	B			X		
1	5	1.50	0.05	Chrysotile				X		
1	6	8.20	0.05	Chrysotile				X		
1	7	6.00	0.05	Chrysotile				X		
1	8	0.60	0.05	Chrysotile				X		
1	9	2.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	10	0.70	0.10	Chrysotile	B			X		
1	11	5.70	0.05	Chrysotile				X		
1	12	5.50	0.15	Chrysotile	B			X		
1	13	3.00	0.05	Chrysotile				X		
1	14	20.00	0.05	Chrysotile				X		
1	15	8.00	0.90	Nonasbestos		X		X	Tremolite	Cleavage
1	16	4.50	0.50	Nonasbestos				X		
1	17	7.00	0.10	Chrysotile				X		
1	18	2.00	0.10	Chrysotile				X		
1	19	2.50	0.05	Chrysotile				X		
1	20	1.75	0.10	Chrysotile	B			X		
1	21	0.60	0.05	Chrysotile				X		
1	22	1.10	0.05	Chrysotile				X		
1	23	2.60	0.10	Chrysotile	B			X		
1	24	1.00	0.15	Chrysotile				X		
1	25	0.80	0.10	Chrysotile	B			X		
1	26	1.20	0.05	Chrysotile				X		
1	27	2.00	0.05	Chrysotile				X		
1	28	1.00	0.05	Chrysotile				X		
1	29	52.00	1.00	Amphibole	B	X		X	Tremolite	Asbestiform
1	30	1.75	0.05	Chrysotile				X		
1	31	0.55	0.05	Chrysotile				X		
1	32	0.75	0.07	Chrysotile	B			X		
1	33	2.90	0.15	Chrysotile	B			X		
1	34	0.80	0.07	Chrysotile	B			X		
1	35	10.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	36	1.75	0.10	Chrysotile	B			X		
1	37	1.25	0.07	Chrysotile	B			X		
1	38	0.60	0.05	Chrysotile				X		
1	39	3.20	0.15	Chrysotile	B			X		
1	40	4.00	0.15	Chrysotile	B			X		
1	41	0.80	0.05	Chrysotile				X		
1	42	4.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	43	1.25	0.10	Chrysotile	B			X		
1	44	0.90	0.05	Chrysotile				X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115516HTP	**Total Asbestos**	92
Client Sample #	B-2	**Total Non-Asbestos**	9
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	45	8.00	0.25	Chrysotile	B			X		
1	46	0.70	0.05	Chrysotile				X		
1	47	25.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
1	48	1.30	0.10	Chrysotile				X		
1	49	1.50	0.05	Chrysotile				X		
1	50	1.20	0.10	Chrysotile	B			X		
1	51	2.00	0.20	Chrysotile	B			X		
1	52	1.40	0.10	Chrysotile	B			X		
1	53	0.60	0.05	Chrysotile				X		
1	54	9.00	0.07	Chrysotile				X		
1	55	0.90	0.05	Chrysotile				X		
1	56	0.80	0.07	Chrysotile				X		
1	57	1.00	0.05	Chrysotile				X		
1	58	1.00	0.05	Chrysotile				X		
1	59	10.00	0.05	Chrysotile				X		
1	60	0.80	0.05	Chrysotile				X		
1	61	0.60	0.05	Chrysotile				X		
1	62	2.40	0.05	Chrysotile				X		
1	63	0.60	0.05	Chrysotile				X		
1	64	1.50	0.10	Chrysotile				X		
1	65	1.90	0.05	Chrysotile				X		
1	66	2.00	0.03	Chrysotile				X		
1	67	1.90	0.10	Chrysotile				X		
1	68	0.70	0.05	Chrysotile				X		
1	69	3.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
1	70	1.50	0.05	Chrysotile				X		
1	71	0.75	0.10	Chrysotile				X		
1	72	3.00	0.05	Chrysotile				X		
1	73	0.75	0.05	Chrysotile				X		
1	74	1.25	0.05	Chrysotile				X		
1	75	0.60	0.05	Chrysotile				X		
1	76	0.80	0.05	Chrysotile				X		
1	77	9.00	0.05	Chrysotile				X		
1	78	1.00	0.05	Chrysotile				X		
1	79	1.40	0.05	Chrysotile				X		
1	80	1.50	0.05	Chrysotile				X		
1	81	1.50	0.10	Chrysotile	B			X		
1	82	1.50	0.03	Chrysotile				X		
1	83	1.25	0.05	Chrysotile				X		
1	84	0.60	0.10	Chrysotile	B			X		
1	85	5.60	0.35	Chrysotile	B			X		
1	86	0.75	0.07	Chrysotile				X		
1	87	10.90	0.40	Nonasbestos		X		X	Tremolite	Cleavage
1	88	1.25	0.20	Chrysotile	B			X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115516HTP	**Total Asbestos**	92
Client Sample #	B-2	**Total Non-Asbestos**	9
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	89	3.00	0.40	Chrysotile	B			X		
1	90	0.70	0.05	Chrysotile				X		
1	91	0.80	0.05	Chrysotile				X		
1	92	1.50	0.05	Chrysotile				X		
1	93	0.80	0.05	Chrysotile				X		
1	94	0.75	0.10	Chrysotile	B			X		
1	95	0.60	0.05	Chrysotile				X		
1	96	1.00	0.05	Chrysotile				X		
1	97	0.65	0.07	Chrysotile	B			X		
1	98	0.70	0.05	Chrysotile				X		
1	99	1.60	0.10	Chrysotile	B			X		
1	100	3.00	0.05	Chrysotile				X		
1	101	0.60	0.07	Chrysotile				X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	9
RJL Sample #	0115516HTPL	**Total Asbestos**	64
Client Sample #	B-2	**Total Non-Asbestos**	33
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	12.00	0.07	Chrysotile				30176		
1	2	9.00	0.05	Chrysotile				X		
1	3	11.00	1.10	Nonasbestos		362		30177	Tremolite	Cleavage
1	4	6.50	0.25	Chrysotile	B			X		
1	5	10.10	0.05	Chrysotile				X		
1	6	13.00	0.30	Chrysotile	B			X		
1	7	20.00	0.25	Chrysotile	B			30179		
1	8	16.00	0.05	Chrysotile				X		
1	9	21.00	0.05	Chrysotile				X		
1	10	9.00	0.05	Chrysotile				X		
1	11	6.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
1	12	6.20	0.20	Nonasbestos		X		X	Tremolite	Cleavage
2	1	12.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
2	2	9.50	0.50	Nonasbestos		X		X	Tremolite	Cleavage
2	3	15.50	0.05	Chrysotile				X		
2	4	16.50	0.15	Chrysotile	B			X		
2	5	11.00	1.10	Nonasbestos		X		X		
2	6	6.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
2	7	11.00	0.05	Chrysotile				X		
2	8	20.00	3.00	Nonasbestos		X		X	Tremolite	Cleavage
2	9	6.00	0.10	Chrysotile	B			X		
2	10	8.00	0.05	Chrysotile				X		
2	11	5.00	0.05	Chrysotile				X		
2	12	6.00	0.10	Chrysotile	B			X		
2	13	8.00	0.05	Chrysotile				X		
2	14	22.00	0.05	Chrysotile				X		
2	15	14.00	0.80	Nonasbestos		X		X	Tremolite	Cleavage
3	1	10.00	0.07	Chrysotile	B			X		
3	2	5.00	0.15	Chrysotile	B			X		
3	3	21.00	0.20	Nonasbestos	B	363		30181	Richterite	Asbestiform
3	4	19.00	0.70	Nonasbestos		X		X	Tremolite	Cleavage
3	5	9.00	0.05	Chrysotile				X		
4	1	9.00	0.05	Chrysotile				X		
4	2	8.00	0.05	Chrysotile				X		
4	3	13.50	0.07	Chrysotile	B			X		
4	4	92.00	0.25	Chrysotile	B			X		
4	5	21.00	0.07	Chrysotile	B			X		
4	6	10.50	0.05	Chrysotile				X		
4	7	32.00	4.00	Nonasbestos		X		X	Tremolite	Cleavage
4	8	6.50	0.07	Chrysotile				X		
4	9	26.00	0.07	Chrysotile				X		
4	10	17.00	0.07	Chrysotile				X		
4	11	10.00	0.05	Chrysotile				X		
4	12	8.00	0.07	Chrysotile				X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	9
RJL Sample #	0115516HTPL	**Total Asbestos**	64
Client Sample #	B-2	**Total Non-Asbestos**	33
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
4	13	5.50	0.07	Chrysotile				X		
4	14	11.50	0.80	Nonasbestos		X		X	Tremolite	Cleavage
4	15	5.50	0.07	Chrysotile	B			X		
4	16	5.20	0.05	Chrysotile				X		
5	1	16.00	0.15	Chrysotile	B			X		
5	2	6.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
5	3	41.00	0.25	Amphibole		364		30183	Tremolite	Asbestiform
5	4	7.50	0.05	Chrysotile						
5	5	15.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
5	6	12.00	0.05	Chrysotile				X		
5	7	26.00	2.50	Nonasbestos		X		X	Tremolite	Cleavage
5	8	5.20	0.20	Nonasbestos		X		X	Tremolite	Cleavage
5	9	5.90	0.25	Nonasbestos		X		X	Tremolite	Cleavage
5	10	8.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
5	11	8.50	0.07	Chrysotile				X		
5	12	8.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
5	13	7.50	0.07	Chrysotile				X		
5	14	16.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
5	15	7.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
6	1	10.50	0.10	Chrysotile	B			X		
6	2	20.00	0.05	Chrysotile				X		
6	3	14.00	0.05	Chrysotile				X		
6	4	16.50	0.60	Chrysotile				X		
6	5	11.00	0.05	Chrysotile				X		
7	1	5.50	0.05	Chrysotile				X		
7	2	5.90	0.15	Chrysotile	B			X		
7	3	20.00	1.10	Nonasbestos		X		X	Tremolite	Cleavage
7	4	17.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
7	5	11.00	0.05	Chrysotile				X		
7	6	7.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
8	1	18.00	0.05	Chrysotile				X		
8	2	22.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
8	3	10.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
8	4	6.50	0.05	Chrysotile				X		
8	5	5.10	0.10	Chrysotile	B			X		
8	6	5.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
8	7	40.00	3.00	Nonasbestos		X		X	Tremolite	Cleavage
8	8	15.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
8	9	7.50	0.07	Chrysotile				X		
8	10	5.10	0.20	Chrysotile	B			X		
8	11	11.00	0.25	Chrysotile	B			X		
8	12	9.00	0.15	Chrysotile	B			X		
8	13	13.00	1.10	Nonasbestos		X		X	Tremolite	Cleavage
8	14	19.00	0.05	Chrysotile				X		

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	9
RJL Sample #	0115516HTPL	**Total Asbestos**	64
Client Sample #	B-2	**Total Non-Asbestos**	33
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
8	15	22.00	0.07	Chrysotile				X		
8	16	7.00	0.20	Chrysotile	B			X		
8	17	5.10	0.05	Chrysotile				X		
8	18	8.00	0.05	Chrysotile				X		
8	19	9.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
9	1	7.00	0.07	Chrysotile				X		
9	2	19.00	1.20	Nonasbestos		X		X	Tremolite	
9	3	20.00	0.50	Amphibole		X		X	Tremolite	Asbestiform
9	4	11.20	0.05	Chrysotile				X		

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115517HTP	**Total Asbestos**	156
Client Sample #	B-3	**Total Non-Asbestos**	13
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	1.50	0.07	Chrysotile				X		
1	2	3.50	0.05	Chrysotile				X		
1	3	0.50	0.05	Chrysotile				X		
1	4	0.50	0.05	Chrysotile				X		
1	5	0.70	0.05	Chrysotile				X		
1	6	3.50	0.35	Nonasbestos		X		X	Tremolite	Cleavage
1	7	0.55	0.07	Chrysotile				X		
1	8	0.75	0.07	Chrysotile				X		
1	9	1.50	0.10	Chrysotile				X		
1	10	1.50	0.05	Chrysotile				X		
1	11	31.00	0.05	Chrysotile				X		
1	12	1.20	0.10	Chrysotile	B			X		
1	13	1.00	0.10	Chrysotile	B			X		
1	14	0.50	0.05	Chrysotile				X		
1	15	12.50	0.05	Chrysotile				X		
1	16	11.00	0.05	Chrysotile				X		
1	17	1.50	0.10	Chrysotile	B			X		
1	18	0.70	0.15	Chrysotile	B			X		
1	19	1.50	0.05	Chrysotile				X		
1	20	13.00	0.05	Chrysotile				X		
1	21	0.70	0.05	Chrysotile				X		
1	22	0.60	0.03	Chrysotile				X		
1	23	0.75	0.10	Chrysotile	B			X		
1	24	8.20	0.05	Chrysotile				X		
1	25	1.10	0.05	Chrysotile				X		
1	26	1.00	0.05	Chrysotile				X		
1	27	6.00	0.07	Chrysotile	B			X		
1	28	1.50	0.10	Chrysotile	B			X		
1	29	1.20	0.15	Chrysotile	B			X		
1	30	0.60	0.05	Chrysotile				X		
1	31	1.25	0.05	Chrysotile				X		
1	32	0.65	0.07	Chrysotile	B			X		
1	33	6.00	0.07	Chrysotile				X		
1	33	0.70	0.10	Chrysotile				X		
1	34	12.50	1.50	Nonasbestos		X		X	Tremolite	Cleavage
1	35	0.50	0.05	Chrysotile				X		
1	36	0.60	0.05	Chrysotile				X		
1	37	4.50	0.60	Nonasbestos		X		X	Richterite	Cleavage
1	38	1.70	0.05	Chrysotile				X		
1	39	0.50	0.05	Chrysotile				X		
1	40	0.50	0.05	Chrysotile				X		
1	41	1.00	0.05	Chrysotile				X		
1	42	1.10	0.05	Chrysotile				X		
1	43	8.50	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115517HTP	**Total Asbestos**	156
Client Sample #	B-3	**Total Non-Asbestos**	13
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	44	0.70	0.05	Chrysotile				X		
1	45	0.50	0.05	Chrysotile				X		
1	46	0.50	0.05	Chrysotile				X		
1	47	1.00	0.05	Chrysotile				X		
1	48	1.00	0.05	Chrysotile				X		
1	49	0.50	0.05	Chrysotile				X		
1	50	1.50	0.05	Chrysotile				X		
1	51	1.10	0.05	Chrysotile				X		
1	52	6.20	0.10	Chrysotile	B			X		
1	53	1.40	0.07	Chrysotile				X		
1	54	1.30	0.07	Chrysotile				X		
1	55	1.00	0.05	Chrysotile				X		
1	56	0.60	0.05	Chrysotile				X		
1	57	2.60	0.07	Chrysotile	B			X		
1	58	2.50	0.05	Chrysotile				X		
1	59	2.20	0.05	Chrysotile				X		
1	60	0.60	0.03	Chrysotile				X		
1	61	9.50	0.05	Chrysotile				X		
1	62	3.00	0.05	Chrysotile				X		
1	63	0.70	0.10	Chrysotile	B			X		
1	64	2.50	0.10	Chrysotile	B			X		
1	65	0.50	0.05	Chrysotile				X		
1	66	12.00	0.05	Chrysotile				X		
1	67	1.00	0.05	Chrysotile				X		
1	68	2.50	0.07	Chrysotile	C			X		
1	69	0.60	0.05	Chrysotile				X		
1	70	0.70	0.05	Chrysotile				X		
1	71	2.70	0.40	Nonasbestos		X		X	Tremolite	Cleavage
1	72	13.00	0.20	Chrysotile	B			X		
1	73	1.50	0.05	Chrysotile				X		
1	74	17.50	0.80	Nonasbestos		X		X	Tremolite	Cleavage
1	75	22.00	0.10	Chrysotile	B			X		
1	76	2.50	0.05	Chrysotile				X		
1	77	5.00	0.10	Chrysotile	B			X		
1	78	1.25	0.05	Chrysotile				X		
1	79	1.00	0.05	Chrysotile				X		
1	80	0.50	0.07	Chrysotile				X		
1	81	0.70	0.05	Chrysotile	C			X		
1	82	0.75	0.05	Chrysotile				X		
1	83	4.00	0.05	Chrysotile				X		
1	84	0.70	0.05	Chrysotile				X		
1	85	0.75	0.10	Chrysotile	B			X		
1	86	0.80	0.05	Chrysotile				X		
1	87	0.90	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115517HTP	**Total Asbestos**	156
Client Sample #	B-3	**Total Non-Asbestos**	13
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	88	0.75	0.20	Chrysotile	B			X		
1	89	2.70	0.10	Chrysotile				X		
1	90	30.00	0.05	Chrysotile				X		
1	91	3.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	92	2.60	0.05	Chrysotile				X		
1	93	1.50	0.30	Nonasbestos		X		X	Richterite	Cleavage
1	94	1.00	0.05	Chrysotile				X		
1	95	5.10	0.05	Chrysotile				X		
1	96	1.50	0.10	Chrysotile				X		
1	97	1.90	0.05	Chrysotile				X		
1	98	1.50	0.07	Chrysotile				X		
1	99	4.00	0.07	Chrysotile				X		
1	100	1.50	0.05	Chrysotile				X		
1	101	2.50	0.05	Chrysotile				X		
1	102	1.25	0.07	Chrysotile				X		
1	103	4.20	0.05	Chrysotile				X		
1	104	0.50	0.07	Chrysotile	B			X		
1	105	12.50	2.20	Nonasbestos		X		X	Tremolite	Cleavage
1	106	3.20	0.05	Chrysotile				X		
1	107	0.60	0.05	Chrysotile				X		
1	108	0.70	0.05	Chrysotile				X		
1	109	0.70	0.05	Chrysotile				X		
1	110	0.90	0.05	Chrysotile				X		
1	111	1.00	0.05	Chrysotile				X		
1	112	20.00	0.05	Chrysotile				X		
1	113	15.00	0.05	Chrysotile				X		
1	114	10.50	0.40	Amphibole		X		X	Tremolite	Asbestiform
1	115	10.70	0.40	Nonasbestos		X		X	Richterite	Cleavage
1	116	1.40	0.10	Chrysotile	B			X		
1	117	0.70	0.05	Chrysotile				X		
1	118	6.50	0.07	Chrysotile	B			X		
1	119	0.80	0.03	Chrysotile				X		
1	120	1.20	0.03	Chrysotile				X		
1	121	1.50	0.05	Chrysotile				X		
1	122	3.00	0.50	Chrysotile	B			X		
1	123	1.50	0.05	Chrysotile				X		
1	124	6.00	0.05	Chrysotile				X		
1	125	5.50	0.07	Chrysotile	B			X		
1	126	2.60	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	127	2.25	0.07	Chrysotile				X		
1	128	0.70	0.05	Chrysotile				X		
1	129	0.60	0.05	Chrysotile				X		
1	130	0.60	0.05	Chrysotile				X		
1	131	1.00	0.05	Chrysotile				X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115517HTP	**Total Asbestos**	156
Client Sample #	B-3	**Total Non-Asbestos**	13
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	132	13.00	0.05	Chrysotile				X		
1	134	0.70	0.05	Chrysotile				X		
1	135	0.50	0.05	Chrysotile				X		
1	136	1.50	0.05	Chrysotile				X		
1	137	1.20	0.05	Chrysotile				X		
1	138	0.50	0.05	Chrysotile				X		
1	139	1.20	0.10	Chrysotile	B			X		
1	140	2.50	0.15	Chrysotile	BM			X		
1	141	1.60	0.05	Chrysotile				X		
1	142	18.00	0.05	Chrysotile				X		
1	143	1.50	0.15	Chrysotile				X		
1	144	1.10	0.05	Chrysotile				X		
1	145	0.70	0.05	Chrysotile				X		
1	146	2.50	0.20	Chrysotile				X		
1	147	1.00	0.05	Chrysotile				X		
1	148	7.50	0.05	Chrysotile				X		
1	149	5.50	0.05	Chrysotile				X		
1	150	15.00	0.05	Chrysotile				X		
1	151	2.25	0.15	Chrysotile	B			X		
1	152	1.70	0.05	Chrysotile				X		
1	153	1.50	0.05	Chrysotile				X		
1	154	1.10	0.05	Chrysotile				X		
1	155	2.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
1	156	8.60	0.20	Amphibole		X		X	Tremolite	Asbestiform
1	157	1.10	0.05	Chrysotile				X		
1	158	3.10	0.15	Chrysotile	B			X		
1	159	5.50	0.50	Nonasbestos				X		
1	160	0.75	0.05	Chrysotile				X		
1	161	2.50	0.10	Chrysotile	B			X		
1	162	1.00	0.10	Chrysotile	B			X		
1	163	5.00	0.05	Chrysotile				X		
1	164	4.50	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	165	4.00	0.50	Chrysotile	B			X		
1	166	0.90	0.10	Chrysotile	B			X		
1	167	32.00	0.15	Chrysotile	B			X		
1	168	1.00	0.05	Chrysotile				X		
1	169	0.90	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	5
RJL Sample #	0115517HTPL	**Total Asbestos**	74
Client Sample #	B-3	**Total Non-Asbestos**	27
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	6.20	0.50	Chrysotile	B			30192		
1	2	18.00	0.05	Chrysotile				X		
1	3	21.00	0.05	Chrysotile				X		
1	4	9.00	0.20	Nonasbestos		X		X		
1	5	26.00	1.00	Nonasbestos		369		30193	Tremolite	Cleavage
1	6	20.00	0.07	Chrysotile	B			X		
1	7	5.50	0.20	Nonasbestos		X		X	Tremolite	Cleavage
1	8	17.00	0.05	Chrysotile				X		
1	9	7.50	0.65	Nonasbestos		X		X	Tremolite	Cleavage
1	10	9.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
1	11	16.00	0.05	Chrysotile				X		
1	12	40.00	0.05	Chrysotile				X		
1	13	5.10	0.10	Chrysotile	B			X		
1	14	8.50	0.05	Chrysotile				X		
1	15	6.20	0.05	Chrysotile				X		
1	16	10.00	0.05	Chrysotile				X		
1	17	11.00	1.00	Amphibole		X		X	Tremolite	Asbestiform
1	18	5.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	19	8.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	20	21.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	21	11.00	0.05	Chrysotile				X		
1	22	15.00	0.05	Chrysotile				X		
1	23	7.00	0.40	Amphibole		X		X	Tremolite	Asbestiform
1	24	13.00	0.05	Chrysotile				X		
1	25	5.50	0.05	Chrysotile				X		
2	1	18.00	0.10	Chrysotile	B			X		
2	2	9.00	0.05	Chrysotile				X		
2	3	9.00	0.05	Chrysotile				X		
2	4	5.50	0.05	Chrysotile				X		
2	5	6.20	0.05	Chrysotile				X		
2	6	5.70	0.05	Chrysotile				X		
2	7	13.00	0.05	Chrysotile				X		
2	8	11.00	0.05	Chrysotile				X		
2	9	9.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
2	10	5.50	0.30	Nonasbestos		X		X	Tremolite	Cleavage
2	11	5.50	0.15	Chrysotile	B			X		
2	12	5.90	0.15	Nonasbestos		X		X	Tremolite	Cleavage
2	13	5.20	0.15	Chrysotile	B			X		
2	14	16.00	0.05	Chrysotile				X		
2	15	19.00	0.10	Chrysotile	B			X		
2	16	22.50	0.05	Chrysotile				X		
2	17	5.50	0.05	Chrysotile				X		
3	1	9.00	0.05	Chrysotile				X		
3	2	7.50	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	5
RJL Sample #	0115517HTPL	**Total Asbestos**	74
Client Sample #	B-3	**Total Non-Asbestos**	27
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
3	3	5.90	0.05	Chrysotile				X		
3	4	5.90	0.70	Nonasbestos		X		X	Tremolite	Cleavage
3	5	16.00	2.50	Nonasbestos		X		X	Tremolite	Cleavage
3	6	5.10	0.20	Amphibole		X		X	Tremolite	Asbestiform
3	7	20.00	0.05	Chrysotile				X		
3	8	5.50	0.07	Chrysotile	B			X		
3	9	6.20	0.30	Nonasbestos		X		X	Richterite	Cleavage
3	10	21.50	0.90	Nonasbestos		X		X	Richterite	Asbestiform
3	11	9.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
3	12	21.00	0.05	Chrysotile				X		
3	13	32.00	0.05	Chrysotile				X		
3	14	8.00	0.05	Chrysotile				X		
3	15	5.10	0.05	Chrysotile				X		
3	16	8.00	0.07	Chrysotile				X		
3	17	9.00	0.05	Chrysotile				X		
3	18	18.00	0.05	Chrysotile				X		
3	19	22.00	0.05	Chrysotile				X		
3	20	8.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
3	21	25.00	1.00	Amphibole		371		30197	Tremolite	Asbestiform
3	22	16.00	0.05	Chrysotile				X		
4	1	25.00	0.90	Nonasbestos		X		X	Tremolite	Cleavage
4	2	14.00	0.05	Chrysotile				X		
4	3	10.00	0.80	Nonasbestos		X		X	Richterite	Cleavage
4	4	32.00	0.05	Chrysotile				X		
4	5	5.10	0.05	Chrysotile				X		
4	6	5.20	0.05	Chrysotile				X		
4	7	9.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
4	8	19.00	0.05	Chrysotile				X		
4	9	9.00	0.05	Chrysotile				X		
4	10	24.00	0.05	Chrysotile				X		
4	11	8.00	0.05	Chrysotile				X		
4	12	5.10	0.05	Chrysotile				X		
4	13	22.00	3.00	Nonasbestos		X		X	Tremolite	Cleavage
4	14	6.00	0.05	Chrysotile				X		
4	15	55.00	0.05	Chrysotile				X		
4	16	6.50	0.25	Chrysotile	B			X		
4	17	6.50	0.30	Chrysotile	B			X		
5	1	18.50	0.30	Amphibole		371		30200	Tremolite	Asbestiform
5	2	5.50	0.40	Chrysotile	B			X		
5	3	8.00	0.05	Chrysotile				X		
5	4	5.10	0.25	Chrysotile	B			X		
5	5	11.00	0.07	Chrysotile				X		
5	6	11.00	0.30	Amphibole		X		X	Tremolite	Asbestiform
5	7	17.00	0.25	Amphibole		X		X	Tremolite	Asbestiform

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	5
RJL Sample #	0115517HTPL	**Total Asbestos**	74
Client Sample #	B-3	**Total Non-Asbestos**	27
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
5	8	5.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
5	9	8.00	0.20	Chrysotile				X		
5	10	16.00	0.60	Nonasbestos		X		X	Richterite	Asbestiform
5	11	5.00	0.05	Chrysotile				X		
5	12	16.00	0.10	Chrysotile				X		
5	13	14.00	0.30	Nonasbestos		X		X	Richterite	Asbestiform
5	14	16.50	0.05	Chrysotile				X		
5	15	21.00	0.05	Chrysotile				X		
5	16	16.50	0.40	Nonasbestos		X		X	Richterite	Asbestiform
5	17	8.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
5	18	6.00	0.20	Chrysotile	B			X		
5	19	16.00	0.05	Chrysotile				X		
5	20	8.50	0.25	Nonasbestos		X		X	Richterite	Asbestiform

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Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	**RJL QA Number**	HQ18894
RJL Sample #	0115518HTP	**Grid Openings**	1
Client Sample #	B-4	**Total Asbestos**	126
Microscope	2000 FX	**Total Non-Asbestos**	14
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0081 mm^2
EDS Disk		**Dilution Factor**	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	3.00	0.05	Chrysotile				X		
1	2	0.50	0.07	Chrysotile	B			X		
1	3	0.60	0.07	Chrysotile				X		
1	4	0.90	0.07	Chrysotile				X		
1	5	5.80	0.20	Amphibole		X		X	Tremolite	Asbestiform
1	6	0.75	0.05	Chrysotile				X		
1	7	0.55	0.03	Chrysotile				X		
1	8	0.70	0.07	Chrysotile	B			X		
1	9	3.00	0.05	Chrysotile				X		
1	10	1.00	0.10	Chrysotile	B			X		
1	11	0.60	0.05	Chrysotile				X		
1	12	5.50	0.20	Nonasbestos				X	Tremolite	Cleavage
1	13	13.00	0.10	Chrysotile	B			X		
1	14	0.70	0.10	Chrysotile	B			X		
1	15	8.00	0.80	Nonasbestos				X	Tremolite	Cleavage
1	16	10.00	0.05	Chrysotile				X		
1	17	0.60	0.07	Chrysotile	B			X		
1	18	1.00	0.05	Chrysotile				X		
1	19	0.70	0.05	Chrysotile				X		
1	20	3.00	0.05	Chrysotile				X		
1	21	8.50	0.35	Nonasbestos		X		X	Richterite	Cleavage
1	22	0.80	0.05	Chrysotile				X		
1	23	2.50	0.05	Chrysotile				X		
1	24	2.50	0.07	Chrysotile	B			X		
1	25	1.10	0.10	Chrysotile	B			X		
1	26	19.00	0.05	Chrysotile				X		
1	27	0.75	0.07	Chrysotile	B			X		
1	28	1.20	0.05	Chrysotile				X		
1	29	1.20	0.05	Chrysotile				X		
1	30	1.25	0.05	Chrysotile				X		
1	31	0.75	0.05	Chrysotile				X		
1	32	1.50	0.05	Chrysotile				X		
1	33	2.50	0.07	Chrysotile	B			X		
1	34	0.75	0.10	Chrysotile	B			X		
1	35	10.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
1	36	1.00	0.15	Chrysotile	B			X		
1	37	0.50	0.05	Chrysotile				X		
1	38	22.50	0.10	Chrysotile	B			X		
1	39	11.00	0.20	Chrysotile	B			X		
1	40	1.90	0.15	Chrysotile	B			X		
1	41	4.00	0.05	Chrysotile				X		
1	42	3.50	0.15	Chrysotile	B			X		
1	43	1.00	0.15	Chrysotile	B			X		
1	44	1.90	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115518HTP	**Total Asbestos**	126
Client Sample #	B-4	**Total Non-Asbestos**	14
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	45	0.70	0.05	Chrysotile				X		
1	46	1.25	0.05	Chrysotile				X		
1	47	0.60	0.05	Chrysotile				X		
1	48	0.60	0.08	Chrysotile				X		
1	49	0.70	0.05	Chrysotile				X		
1	50	2.00	0.10	Chrysotile	B			X		
1	51	2.00	0.05	Chrysotile				X		
1	52	0.90	0.07	Chrysotile				X		
1	53	0.50	0.07	Chrysotile	B			X		
1	54	0.75	0.03	Chrysotile				X		
1	55	1.10	0.03	Chrysotile				X		
1	56	1.20	0.05	Chrysotile				X		
1	57	0.90	0.07	Chrysotile				X		
1	58	0.55	0.07	Chrysotile				X		
1	59	8.50	0.05	Chrysotile				X		
1	60	2.00	0.07	Chrysotile				X		
1	61	6.00	0.20	Nonasbestos		X		X	Richterite	Asbestiform
1	62	2.40	0.10	Chrysotile	B			X		
1	63	1.20	0.07	Chrysotile	B			X		
1	64	3.20	0.05	Chrysotile				X		
1	65	4.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
1	66	1.00	0.07	Chrysotile				X		
1	67	6.00	0.90	Nonasbestos		X		X	Tremolite	cleavage
1	68	0.75	0.05	Chrysotile				X		
1	69	3.00	0.05	Chrysotile				X		
1	70	1.20	0.03	Chrysotile				X		
1	71	4.50	0.10	Chrysotile	B			X		
1	72	1.10	0.05	Chrysotile				X		
1	73	1.00	0.05	Chrysotile				X		
1	74	3.00	0.05	Chrysotile				X		
1	75	0.60	0.05	Chrysotile				X		
1	76	1.10	0.05	Chrysotile				X		
1	77	1.10	0.03	Chrysotile				X		
1	78	3.60	0.20	Nonasbestos		X		X	Richterite	Cleavage
1	79	1.50	0.05	Chrysotile				X		
1	80	13.20	0.07	Chrysotile	B			X		
1	81	2.00	0.05	Chrysotile				X		
1	82	0.60	0.05	Chrysotile				X		
1	83	2.00	0.05	Chrysotile				X		
1	84	7.50	0.03	Chrysotile				X		
1	85	3.00	0.05	Chrysotile				X		
1	86	4.00	0.10	Chrysotile	B			X		
1	87	0.70	0.10	Chrysotile	B			X		
1	88	0.70	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115518HTP	**Total Asbestos**	126
Client Sample #	B-4	**Total Non-Asbestos**	14
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	89	0.50	0.05	Chrysotile				X		
1	90	1.50	0.03	Chrysotile				X		
1	91	1.20	0.07	Chrysotile				X		
1	92	2.00	0.07	Chrysotile				X		
1	93	1.25	0.07	Chrysotile				X		
1	94	1.75	0.05	Chrysotile				X		
1	95	1.10	0.03	Chrysotile				X		
1	96	8.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	97	1.00	0.05	Chrysotile				X		
1	98	0.50	0.05	Chrysotile				X		
1	99	0.65	0.05	Chrysotile				X		
1	100	1.50	0.03	Chrysotile				X		
1	101	0.60	0.05	Chrysotile				X		
1	102	3.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	103	1.00	0.05	Chrysotile						
1	104	22.00	0.40	Amphibole		X		X	Tremolite	Asbestiform
1	105	17.00	0.40	Amphibole		X		X	Tremolite	Asbestiform
1	106	1.10	0.05	Chrysotile				X		
1	107	0.75	0.07	Chrysotile	B			X		
1	108	1.00	0.05	Chrysotile				X		
1	109	0.55	0.05	Chrysotile				X		
1	110	3.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	111	0.80	0.05	Chrysotile				X		
1	112	3.60	0.07	Chrysotile	B			X		
1	113	20.00	0.07	Chrysotile	B			X		
1	114	1.00	0.05	Chrysotile				X		
1	115	3.10	0.05	Chrysotile				X		
1	116	8.00	0.05	Chrysotile				X		
1	117	7.00	0.05	Chrysotile				X		
1	118	1.10	0.05	Chrysotile				X		
1	119	1.50	0.03	Chrysotile				X		
1	120	2.25	0.15	Chrysotile	B			X		
1	121	6.00	0.70	Nonasbestos		X		X	Tremolite	Cleavage
1	122	0.90	0.05	Chrysotile				X		
1	123	1.10	0.05	Chrysotile				X		
1	124	3.50	0.07	Chrysotile	B			X		
1	125	3.20	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	126	3.50	0.07	Chrysotile	B			X		
1	127	1.00	0.07	Chrysotile				X		
1	128	0.80	0.07	Chrysotile				X		
1	129	6.00	0.05	Chrysotile				X		
1	130	1.10	0.05	Chrysotile				X		
1	131	0.60	0.05	Chrysotile				X		
1	132	9.00	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115518HTP	**Total Asbestos**	126
Client Sample #	B-4	**Total Non-Asbestos**	14
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	133	0.55	0.05	Chrysotile				X		
1	134	9.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	135	6.00	0.10	Chrysotile	B			X		
1	136	2.70	0.03	Chrysotile				X		
1	137	4.00	0.10	Chrysotile	B			X		
1	138	1.20	0.10	Chrysotile	B			X		
1	139	3.20	0.05	Chrysotile				X		
1	140	0.70	0.07	Chrysotile	B			X		

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Count Sheet

Client Name	URS Corporation	RJL QA Number	HQ18894
Project Number	LSH101548	Grid Openings	8
RJL Sample #	0115518HTPL	Total Asbestos	69
Client Sample #	B-4	Total Non-Asbestos	45
Microscope	2000 FX	Filter	PC 385 mm^2
Accelerating Volt	120 Kv	Volume	.0 Liters
Magnification	5000 X	Grid Opening Area	0.0081 mm^2
Analyst	KA	Dilution Factor	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	5.90	0.30	Amphibole		X		X	Tremolite	Asbestiform
1	2	7.00	0.05	Chrysotile				X		
1	3	7.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	4	45.00	1.00	Nonasbestos		372		30203	Tremolite	Cleavage
1	5	6.00	0.30	Chrysotile	B			X		
1	6	6.50	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	7	5.50	0.35	Nonasbestos		X		X	Tremolite	Cleavage
1	8	11.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
1	9	8.00	0.05	Chrysotile				X		
1	10	11.50	0.90	Nonasbestos		X		X	Tremolite	Cleavage
1	11	8.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
1	12	6.50	0.05	Chrysotile				X		
2	1	16.00	0.05	Chrysotile				X		
2	2	7.00	0.80	Nonasbestos		X		X	Tremolite	Cleavage
2	3	13.00	0.05	Chrysotile				X		
2	4	10.00	0.05	Chrysotile				X		
2	5	5.00	0.25	Chrysotile	B			X		
2	6	5.00	0.05	Chrysotile				X		
2	7	15.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
2	8	5.50	0.15	Nonasbestos		X		X	Tremolite	Cleavage
2	9	12.00	0.05	Chrysotile				X		
2	10	15.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
2	11	5.50	0.05	Chrysotile				X		
2	12	14.00	0.05	Chrysotile				X		
2	13	5.10	0.07	Chrysotile				X		
2	14	5.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
2	15	8.00	0.05	Chrysotile				X		
3	1	20.00	0.70	Nonasbestos		X		X	Tremolite	Cleavage
3	2	16.00	0.05	Chrysotile				X		
3	3	9.00	0.05	Chrysotile				X		
3	4	9.00	0.07	Chrysotile				X		
3	5	10.50	0.05	Chrysotile				X		
3	6	5.50	0.05	Chrysotile	B			X		
3	7	7.00	0.05	Chrysotile				X		
3	8	5.90	0.60	Nonasbestos		X		X	Tremolite	Cleavage
3	9	10.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
3	10	8.00	0.05	Chrysotile				X		
3	11	6.50	0.05	Chrysotile				X		
3	12	12.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
3	13	8.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
3	14	9.00	0.05	Chrysotile				X		
3	15	8.00	0.05	Chrysotile				X		
3	16	5.10	0.25	Chrysotile	B			X		
3	17	6.20	0.07	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	8
RJL Sample #	0115518HTPL	**Total Asbestos**	69
Client Sample #	B-4	**Total Non-Asbestos**	45
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
3	18	6.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
4	1	10.00	0.05	Chrysotile				X		
4	2	5.90	0.60	Nonasbestos		X		X	Tremolite	Cleavage
4	3	8.00	1.20	Nonasbestos		X		X	Tremolite	Cleavage
4	4	6.50	0.03	Chrysotile				X		
4	5	7.50	0.15	Chrysotile	B			X		
4	6	20.00	0.05	Chrysotile				X		
4	7	6.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
4	8	31.00	0.07	Chrysotile	B			X		
4	9	11.00	0.05	Chrysotile				X		
4	10	21.00	0.05	Chrysotile				X		
4	11	15.50	0.05	Chrysotile				X		
4	12	6.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
4	13	14.00	0.05	Chrysotile				X		
5	1	47.00	0.80	Amphibole		373		30206	Tremolite	Asbestiform
5	2	7.00	0.40	Nonasbestos		374		X	Richterite	Cleavage
5	3	5.50	0.05	Chrysotile				X		
5	4	8.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
5	5	5.50	0.15	Chrysotile	B			X		
5	6	10.00	0.07	Chrysotile	B			X		
5	7	26.00	0.10	Chrysotile	B			X		
5	8	34.00	0.05	Chrysotile				X		
5	9	9.00	0.05	Chrysotile				X		
5	10	12.00	0.05	Chrysotile				X		
5	11	12.00	0.65	Nonasbestos		X		X	Tremolite	Cleavage
5	12	6.00	0.05	Chrysotile				X		
5	13	6.00	0.10	Chrysotile	B			X		
5	14	10.00	0.15	Chrysotile	B			X		
6	1	5.00	0.05	Chrysotile				X		
6	2	8.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
6	3	15.00	0.05	Chrysotile				X		
6	4	5.00	0.05	Chrysotile				X		
6	5	5.20	0.30	Nonasbestos		X		X	Tremolite	Cleavage
6	6	15.00	2.00	Nonasbestos		X		X	Tremolite	Cleavage
6	7	15.00	0.20	Nonasbestos		X		X	Richterite	Asbestiform
6	8	5.50	0.20	Nonasbestos		X		X	Tremolite	Cleavage
6	9	9.00	0.10	Chrysotile	B			X		
6	10	12.00	0.40	Nonasbestos		X		X	Richterite	Asbestiform
6	11	9.50	0.05	Chrysotile				X		
6	12	11.50	0.60	Nonasbestos		X		X	Richterite	Asbestiform
7	1	19.00	0.70	Nonasbestos		X		X	Richterite	Asbestiform
7	2	95.00	0.20	Chrysotile	B			X		
7	3	40.00	0.80	Amphibole		X		X	Tremolite	Asbestiform
7	4	30.00	1.00	Amphibole		X		X	Tremolite	Asbestiform

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	8
RJL Sample #	0115518HTPL	**Total Asbestos**	69
Client Sample #	B-4	**Total Non-Asbestos**	45
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
7	5	5.50	0.50	Nonasbestos		X		X	Tremolite	Cleavage
7	6	26.00	0.50	Nonasbestos		X		X	Richterite	Asbestiform
7	7	16.00	0.05	Chrysotile				X		
7	8	8.00	0.65	Nonasbestos		X		X	Tremolite	Cleavage
7	9	5.50	0.20	Chrysotile	B			X		
7	10	18.00	0.50	Chrysotile	B			X		
7	11	7.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
7	12	6.00	0.05	Chrysotile				X		
8	1	6.00	0.10	Chrysotile	B			X		
8	2	12.00	0.07	Chrysotile				X		
8	3	11.00	0.15	Chrysotile	B			X		
8	4	13.00	0.07	Chrysotile				X		
8	5	8.00	0.20	Nonasbestos		X		X	Richterite	Cleavage
8	6	5.10	0.50	Nonasbestos		X		X	Tremolite	Cleavage
8	7	24.00	1.10	Nonasbestos		X		X	Tremolite	Cleavage
8	8	5.10	0.05	Chrysotile				X		
8	9	14.00	0.40	Nonasbestos		X		X	Richterite	Asbestiform
8	10	9.50	0.35	Nonasbestos		X		X	Richterite	Cleavage
8	11	6.00	0.05	Chrysotile				X		
8	12	9.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
8	13	18.00	0.05	Chrysotile				X		
8	14	12.50	0.05	Chrysotile				X		
8	15	11.00	0.40	Amphibole		X		X	Tremolite	Asbestiform
8	16	12.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
8	17	5.50	0.05	Chrysotile				X		
8	18	12.50	0.30	Nonasbestos		X		X	Richterite	Cleavage

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115519HTP	**Total Asbestos**	50
Client Sample #	B-5	**Total Non-Asbestos**	2
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	90.00	5.00	Chrysotile	B			X		
1	2	1.00	0.07	Chrysotile	B			X		
1	3	0.60	0.05	Chrysotile				X		
1	4	1.00	0.05	Chrysotile				X		
1	5	1.00	0.05	Chrysotile				X		
1	6	1.00	0.05	Chrysotile				X		
1	7	1.50	0.20	Chrysotile	B			X		
1	8	2.00	0.20	Chrysotile	B			X		
1	9	1.90	0.07	Chrysotile	B			X		
1	10	1.50	0.05	Chrysotile				X		
1	11	0.70	0.05	Chrysotile				X		
1	12	2.00	0.15	Chrysotile	B			X		
1	13	30.50	1.00	Amphibole		X		X	Tremolite	Asbestiform
1	14	1.00	0.10	Chrysotile	B			X		
1	15	0.80	0.07	Chrysotile	B			X		
1	16	0.60	0.05	Chrysotile				X		
1	17	1.50	0.20	Nonasbestos		X		X	Tremolite	Cleavage
1	18	2.40	0.10	Chrysotile	B			X		
1	19	6.00	0.07	Chrysotile	B			X		
1	20	1.00	0.05	Chrysotile				X		
1	21	12.50	0.40	Chrysotile	B			X		
1	22	0.70	0.05	Chrysotile				X		
1	23	3.10	0.05	Chrysotile				X		
1	24	1.20	0.15	Chrysotile	B			X		
1	25	2.00	0.07	Chrysotile	B			X		
1	26	1.90	0.05	Chrysotile	C			X		
1	27	0.75	0.05	Chrysotile				X		
1	28	1.60	0.05	Chrysotile				X		
1	29	1.10	0.05	Chrysotile				X		
1	30	3.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
1	31	0.60	0.05	Chrysotile				X		
1	32	17.00	0.30	Chrysotile	B			X		
1	33	0.60	0.05	Chrysotile				X		
1	34	0.65	0.03	Chrysotile				X		
1	35	0.60	0.05	Chrysotile				X		
1	36	16.00	0.05	Chrysotile				X		
1	37	7.00	0.05	Chrysotile				X		
1	38	1.50	0.07	Chrysotile	B			X		
1	39	2.20	0.05	Chrysotile				X		
1	40	0.50	0.05	Chrysotile				X		
1	41	1.00	0.05	Chrysotile				X		
1	42	0.90	0.05	Chrysotile				X		
1	43	2.00	0.10	Chrysotile	B			X		
1	44	2.70	0.25	Chrysotile	B			X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115519HTP	**Total Asbestos**	50
Client Sample #	B-5	**Total Non-Asbestos**	2
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	45	0.70	0.05	Chrysotile				X		
1	46	0.80	0.05	Chrysotile				X		
1	47	15.00	0.05	Chrysotile				X		
1	48	1.60	0.10	Chrysotile				X		
1	49	7.50	0.05	Chrysotile				X		
1	50	1.00	0.15	Chrysotile	B			X		
1	51	3.50	0.05	Chrysotile				X		
1	52	0.90	0.10	Chrysotile	B			X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	1
RJL Sample #	0115520HTP	**Total Asbestos**	74
Client Sample #	B-6	**Total Non-Asbestos**	9
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	21000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	0.75	0.10	Chrysotile	B			X		
1	2	1.00	0.05	Chrysotile				X		
1	3	2.50	0.05	Chrysotile				X		
1	4	1.20	0.15	Chrysotile	B			X		
1	5	1.50	0.15	Chrysotile	B			X		
1	6	2.50	0.05	Chrysotile				X		
1	7	0.60	0.05	Chrysotile				X		
1	8	2.50	0.20	Chrysotile	B			X		
1	9	1.20	0.15	Chrysotile	B			X		
1	10	1.00	0.05	Chrysotile				X		
1	11	1.50	0.10	Chrysotile	B			X		
1	12	1.00	0.05	Chrysotile				X		
1	13	0.75	0.10	Chrysotile	B			X		
1	14	1.50	0.05	Chrysotile				X		
1	15	1.00	0.05	Chrysotile				X		
1	16	1.00	0.05	Chrysotile				X		
1	17	1.00	0.05	Chrysotile				X		
1	18	7.50	0.15	Chrysotile	B			X		
1	19	1.00	0.10	Chrysotile				X		
1	20	0.75	0.05	Chrysotile				X		
1	21	1.20	0.15	Chrysotile	B			X		
1	22	0.75	0.05	Chrysotile				X		
1	23	1.20	0.10	Chrysotile	B			X		
1	24	1.50	0.05	Chrysotile				X		
1	25	3.50	0.35	Chrysotile	B			X		
1	26	4.00	0.20	Chrysotile	B			X		
1	27	7.50	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	28	43.50	0.75	Amphibole	B	X		X	Tremolite	Amphibole
1	29	1.50	0.25	Chrysotile	B			X		
1	30	0.75	0.10	Chrysotile	B			X		
1	31	1.50	0.10	Chrysotile	B			X		
1	32	0.75	0.05	Chrysotile				X		
1	33	0.50	0.05	Chrysotile				X		
1	34	3.00	0.10	Chrysotile	B			X		
1	35	0.60	0.10	Chrysotile				X		
1	36	0.70	0.35	Chrysotile	B			X		
1	37	2.60	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	38	0.55	0.05	Chrysotile				X		
1	39	3.00	0.15	Chrysotile	B			X		
1	40	0.60	0.15	Chrysotile	B			X		
1	41	5.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	42	3.50	0.05	Chrysotile				X		
1	43	1.50	0.05	Chrysotile				X		
1	44	2.30	0.10	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	14
RJL Sample #	0115519HTPL	**Total Asbestos**	81
Client Sample #	B-5	**Total Non-Asbestos**	18
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	16.00	0.05	Chrysotile				X		
1	2	11.50	1.10	Nonasbestos		X		X	Tremolite	Cleavage
1	3	20.00	0.05	Chrysotile				X		
1	4	5.00	0.05	Chrysotile				30208		
1	5	10.10	0.05	Chrysotile				X		
1	6	8.00	0.07	Chrysotile	B			X		
1	7	10.00	0.05	Chrysotile				X		
1	8	6.00	0.05	Chrysotile				X		
1	9	11.50	0.05	Chrysotile				X		
1	10	5.50	0.10	Chrysotile	B			X		
1	11	5.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	12	16.50	0.05	Chrysotile				X		
1	13	15.00	0.05	Chrysotile				X		
2	1	8.00	0.05	Chrysotile				X		
2	2	7.50	0.65	Nonasbestos		374		30209	Tremolite	Cleavage
2	3	6.00	0.05	Chrysotile				X		
2	4	6.50	0.50	Nonasbestos		X		X	Tremolite	Cleavage
2	5	5.90	0.20	Chrysotile	B			X		
2	6	5.90	0.05	Chrysotile				X		
2	7	9.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
3	1	45.00	0.80	Amphibole		X		X	Tremolite	Asbestiform
3	2	5.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
3	3	5.50	0.20	Chrysotile	B			X		
3	4	22.00	0.05	Chrysotile				X		
3	5	20.00	0.05	Chrysotile				X		
4	1	8.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
4	2	6.00	0.05	Chrysotile				X		
4	3	7.00	0.20	Nonasbestos		X		X	Richterite	Cleavage
4	4	8.00	1.00	Chrysotile	B			X		
4	5	8.00	0.07	Chrysotile	B			X		
5	1	17.00	0.05	Chrysotile				X		
5	2	28.00	0.05	Chrysotile				X		
5	3	5.10	0.30	Chrysotile	B			X		
5	4	5.50	0.05	Chrysotile				X		
5	5	6.20	0.05	Chrysotile				X		
5	6	8.00	0.20	Nonasbestos		X		X	Richterite	Cleavage
5	7	6.50	0.05	Chrysotile				X		
5	8	12.00	0.70	Nonasbestos		X		X	Tremolite	Cleavage
5	9	5.00	0.10	Chrysotile				X		
6	1	6.10	0.05	Chrysotile				X		
6	2	5.50	0.10	Chrysotile				X		
6	3	12.00	0.05	Chrysotile				X		
6	4	5.00	0.05	Chrysotile				X		
6	5	19.50	0.07	Chrysotile	B			X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	LSH101548	**Grid Openings**	14
RJL Sample #	0115519HTPL	**Total Asbestos**	81
Client Sample #	B-5	**Total Non-Asbestos**	18
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 Kv	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
6	6	6.00	0.10	Chrysotile	B			X		
6	7	5.00	0.05	Chrysotile				X		
7	1	7.00	0.40	Chrysotile	B			X		
7	2	6.50	0.05	Chrysotile				X		
7	3	5.50	0.15	Chrysotile	B			X		
7	4	7.00	0.05	Chrysotile				X		
7	5	15.00	1.20	Nonasbestos		X		X	Tremolite	Cleavage
7	6	14.00	0.05	Chrysotile				X		
7	7	6.50	0.05	Chrysotile				X		
7	8	16.20	0.05	Chrysotile				X		
7	9	20.00	0.05	Chrysotile				X		
7	10	22.00	0.05	Chrysotile				X		
7	11	9.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
7	12	25.00	0.05	Chrysotile				X		
8	1	8.00	0.07	Chrysotile				X		
8	2	35.00	0.05	Chrysotile				X		
8	3	6.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
8	4	25.00	0.05	Chrysotile				X		
9	1	110.00	2.00	Amphibole		375		30212	Tremolite	Asbestiform
9	2	5.10	0.20	Nonasbestos		X		X	Richterite	Cleavage
9	3	9.50	0.10	Chrysotile				X		
9	4	5.00	0.20	Nonasbestos		X		X	Richterite	Cleavage
9	5	9.50	0.05	Chrysotile				X		
10	1	45.00	0.05	Chrysotile				X		
10	2	5.10	0.05	Chrysotile				X		
10	3	22.00	0.05	Chrysotile				X		
10	4	6.00	0.05	Chrysotile				X		
10	5	9.00	0.05	Chrysotile				X		
10	6	24.00	0.05	Chrysotile				X		
10	7	21.00	0.07	Chrysotile				X		
10	8	9.50	0.80	Nonasbestos		X		X	Tremolite	Cleavage
10	9	11.00	0.05	Chrysotile				X		
10	10	5.50	0.05	Chrysotile				X		
10	11	6.50	0.05	Chrysotile				X		
10	12	5.50	0.05	Chrysotile				X		
11	1	45.00	0.07	Chrysotile				X		
11	2	20.50	0.03	Chrysotile				X		
11	3	27.50	0.05	Chrysotile				X		
12	1	6.50	0.05	Chrysotile				X		
12	2	21.00	0.05	Chrysotile				X		
12	3	5.50	0.05	Chrysotile				X		
12	4	42.00	1.50	Amphibole		X		X	Tremolite	Asbestiform
12	5	25.00	0.05	Chrysotile				X		
12	6	9.00	0.05	Chrysotile				X		

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Count Sheet

Client Name	URS Corporation	**RJL QA Number**	HQ18894
Project Number	**LSH101548**	**Grid Openings**	14
RJL Sample #	**0115519HTPL**	**Total Asbestos**	81
Client Sample #	B-5	**Total Non-Asbestos**	18
Microscope	2000 FX	**Filter**	PC 385 mm^2
Accelerating Volt	120 **Kv**	**Volume**	.0 Liters
Magnification	5000 X	**Grid Opening Area**	0.0081 mm^2
Analyst	KA	**Dilution Factor**	0.005
EDS Disk			

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
12	7	16.00	0.05	Chrysotile				X		
13	1	7.00	0.07	Chrysotile	B			X		
13	2	9.00	0.07	Chrysotile				X		
14	1	6.50	0.05	Chrysotile				X		
14	2	5.90	0.40	Nonasbestos		X		X	Tremolite	Cleavage
14	3	11.20	0.20	Nonasbestos		X		X	Tremolite	Cleavage
14	4	5.50	0.03	Chrysotile				X		
14	5	34.00	0.05	Chrysotile				X		
14	6	7.00	0.05	Chrysotile				X		
14	7	10.00	0.03	Chrysotile				X		
14	8	7.50	0.07	Chrysotile				X		

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	**RJL QA Number**	HQ18894
RJL Sample #	0115520HTP	**Grid Openings**	1
Client Sample #	B-6	**Total Asbestos**	74
Microscope	2000 FX	**Total Non-Asbestos**	9
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0081 mm^2
EDS Disk		**Dilution Factor**	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	45	1.20	0.05	Chrysotile				X		
1	46	8.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
1	47	1.50	0.10	Chrysotile				X		
1	48	0.70	0.05	Chrysotile				X		
1	49	0.50	0.05	Chrysotile				X		
1	50	2.50	0.15	Chrysotile	B			X		
1	51	1.00	0.10	Chrysotile				X		
1	52	0.75	0.10	Chrysotile				X		
1	53	1.50	0.03	Chrysotile				X		
1	54	1.20	0.03	Chrysotile				X		
1	55	0.70	0.03	Chrysotile				X		
1	56	1.00	0.05	Chrysotile				X		
1	57	2.00	0.05	Chrysotile				X		
1	58	1.80	0.05	Chrysotile				X		
1	59	0.55	0.05	Chrysotile				X		
1	60	3.50	0.10	Chrysotile				X		
1	61	3.00	0.05	Chrysotile				X		
1	62	4.00	0.15	Chrysotile				X		
1	63	1.20	0.05	Chrysotile				X		
1	64	1.25	0.10	Chrysotile				X		
1	65	4.00	0.30	Nonasbestos		X		X	Richterite	Cleavage
1	66	3.50	0.70	Nonasbestos		X		X	Richterite	Cleavage
1	67	0.75	0.05	Chrysotile				X		
1	68	6.00	0.05	Chrysotile				X		
1	69	1.20	0.07	Chrysotile				X		
1	70	0.50	0.05	Chrysotile				X		
1	71	1.60	0.07	Chrysotile	B			X		
1	72	4.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	73	1.20	0.05	Chrysotile				X		
1	74	5.90	0.10	Chrysotile	B			X		
1	75	2.70	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	76	1.20	0.05	Chrysotile				X		
1	77	1.25	0.35	Chrysotile	B			X		
1	78	1.15	0.05	Chrysotile				X		
1	79	4.00	0.03	Chrysotile				X		
1	80	0.90	0.05	Chrysotile				X		
1	81	1.10	0.05	Chrysotile				X		
1	82	1.25	0.05	Chrysotile				X		
1	83	2.90	0.25	Nonasbestos		X		X	Tremolite	Cleavage

RJ Lee Group, Inc
Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	**RJL QA Number**	HQ18894
RJL Sample #	0115520HTPL	**Grid Openings**	20
Client Sample #	B-6	**Total Asbestos**	61
Microscope	2000 FX	**Total Non-Asbestos**	41
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0081 mm^2
EDS Disk		**Dilution Factor**	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	11.50	0.05	Chrysotile				30217		
1	2	6.00	0.05	Chrysotile				X		
1	3	5.00	0.05	Chrysotile				X		
1	4	5.90	0.30	Amphibole		X		X	Tremolite	Asbestiform
1	5	6.00	0.05	Chrysotile				X		
2	1	11.00	0.07	Chrysotile	B			X		
2	2	17.00	3.00	Nonasbestos		X		X	Tremolite	Cleavage
3	0			NSD						
4	1	10.20	0.60	Nonasbestos		X		X	Tremolite	Cleavage
4	2	17.00	0.05	Chrysotile				X		
4	3	7.50	1.50	Nonasbestos		X		X	Tremolite	Cleavage
4	4	10.00	0.25	Nonasbestos		X		X	Richterite	Asbestiform
4	5	9.00	0.05	Nonasbestos		X		X	Tremolite	Cleavage
5	1	19.00	0.50	Amphibole		X		X	Tremolite	Asbestiform
5	2	10.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
6	1	8.50	2.20	Nonasbestos		X		X	Tremolite	Cleavage
6	2	9.00	0.05	Chrysotile				X		
6	3	11.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
7	1	30.00	1.10	Amphibole		X		X	Tremolite	Asbestiform
7	2	6.50	0.20	Nonasbestos		X		X	Richterite	Cleavage
7	3	5.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
7	4	5.20	0.07	Chrysotile	B			X		
7	5	8.00	0.05	Chrysotile				X		
7	6	6.50	0.05	Chrysotile				X		
8	1	9.00	0.05	Chrysotile				X		
8	2	10.00	0.07	Chrysotile	B			X		
8	3	10.00	0.05	Chrysotile				X		
8	4	9.00	0.05	Chrysotile				X		
8	5	9.00	0.40	Nonasbestos		X		X	Richterite	Cleavage
8	6	6.00	0.40	Chrysotile	B			X		
9	1	8.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
9	2	5.10	0.05	Chrysotile				X		
9	3	6.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
9	4	8.50	0.20	Chrysotile	B			X		
9	5	9.00	0.15	Chrysotile	B			X		
10	1	6.50	0.05	Chrysotile				X		
10	2	5.10	0.15	Chrysotile	B			X		
11	1	8.00	0.05	Chrysotile				X		
11	2	5.20	0.60	Nonasbestos		X		X	Tremolite	Cleavage
11	3	6.00	1.20	Nonasbestos		X		X	Tremolite	Cleavage
11	4	5.20	0.40	Nonasbestos		X		X	Tremolite	Cleavage
11	5	7.00	0.35	Nonasbestos		X		X	Tremolite	Cleavage
11	6	12.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
11	7	9.00	0.05	Chrysotile				X		

NSD - No Structures Detected

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	RJL QA Number	HQ18894
RJL Sample #	0115520HTPL	Grid Openings	20
Client Sample #	B-6	Total Asbestos	61
Microscope	2000 FX	Total Non-Asbestos	41
Accelerating Volt	120 Kv	Filter	PC 385 mm^2
Magnification	5000 X	Volume	.0 Liters
Analyst	KA	Grid Opening Area	0.0081 mm^2
EDS Disk		Dilution Factor	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
11	8	9.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
12	1	15.50	0.40	Amphibole		X		X	Tremolite	Asbestiform
12	2	9.00	0.25	Amphibole		X		X	Tremolite	Asbestiform
12	3	11.00	1.20	Nonasbestos		X		X	Tremolite	Cleavage
12	4	7.50	0.05	Chrysotile				X		
12	5	6.20	0.03	Chrysotile				X		
13	1	12.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
13	2	17.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
13	3	11.50	0.75	Nonasbestos		X		X	Tremolite	Cleavage
13	4	5.10	0.05	Chrysotile				X		
13	5	6.00	0.05	Chrysotile				X		
13	6	5.10	0.03	Chrysotile				X		
14	1	6.00	0.15	Nonasbestos		X		X	Richterite	Asbestiform
14	2	6.50	0.75	Nonasbestos		X		X	Tremolite	Cleavage
14	3	5.90	0.05	Chrysotile				X		
14	4	7.50	0.10	Chrysotile	B			X		
14	5	6.50	1.50	Chrysotile	B			X		
15	1	11.50	1.20	Nonasbestos		X		X	Tremolite	Cleavage
15	2	31.00	0.05	Chrysotile				X		
15	3	5.50	0.03	Chrysotile				X		
16	1	16.50	2.00	Nonasbestos		X		X	Tremolite	Cleavage
16	2	6.00	0.15	Chrysotile				X		
16	3	40.00	3.00	Nonasbestos		X		X	Tremolite	Cleavage
16	4	6.50	0.40	Nonasbestos		X		X	Richterite	Asbestiform
16	5	10.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
17	1	20.00	0.05	Chrysotile				X		
17	2	6.00	0.25	Chrysotile	B			X		
17	3	6.50	1.10	Nonasbestos		X		X	Tremolite	Cleavage
17	4	6.50	1.20	Nonasbestos		X		X	Tremolite	Cleavage
17	5	7.00	0.05	Chrysotile				X		
17	6	5.10	0.30	Nonasbestos		X		X	Richterite	Cleavage
17	7	11.00	1.10	Nonasbestos		X		X	Tremolite	Cleavage
17	8	11.50	0.05	Chrysotile				X		
17	9	15.00	0.07	Chrysotile				X		
18	1	8.50	0.10	Chrysotile	B			X		
18	2	12.00	1.50	Nonasbestos		X		X	Tremolite	Cleavage
18	3	9.00	0.05	Chrysotile				X		
18	4	24.00	0.05	Chrysotile				X		
18	5	35.00	0.05	Chrysotile				X		
18	6	11.20	0.15	Amphibole		X		X	Tremolite	Asbestiform
18	7	9.00	0.15	Amphibole		X		X	Tremolite	Asbestiform
18	8	8.50	1.00	Nonasbestos		X		X	Tremolite	Cleavage
18	9	57.00	0.30	Chrysotile	B			X		
18	10	5.10	0.10	Chrysotile	B			X		

RJ Lee *Group*, Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548	**RJL QA Number**	HQ18894
RJL Sample #	0115520HTPL	**Grid Openings**	20
Client Sample #	B-6	**Total Asbestos**	61
Microscope	2000 FX	**Total Non-Asbestos**	41
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0081 mm^2
EDS Disk		**Dilution Factor**	0.005

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
19	1	9.50	0.15	Chrysotile	B			X		
19	2	5.10	0.65	Nonasbestos		X		X	Tremolite	Cleavage
19	3	31.00	0.40	Amphibole		X		X	Tremolite	Asbestiform
19	4	15.00	0.20	Chrysotile	B			X		
19	5	16.00	0.05	Chrysotile				X		
19	6	25.00	3.00	Nonasbestos		X		X	Tremolite	Cleavage
19	7	20.00	0.05	Chrysotile				X		
19	8	18.00	0.05	Chrysotile				X		
20	1	60.00	0.50	Chrysotile	B			X		
20	2	6.00	0.50	Nonasbestos		X		X	Tremolite	Cleavage
20	3	9.00	0.80	Nonasbestos		X		X	Tremolite	Cleavage
20	4	20.00	0.20	Chrysotile	B			X		
20	5	10.00	0.20	Chrysotile	B			X		
20	6	9.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
20	7	6.00	0.05	Chrysotile				X		

RJ Lee *Group* , Inc

Count Sheet

Client Name	**URS Corporation**		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116176HTP2**	**Grid Openings**	10
Client Sample #	C-1	**Total Asbestos**	0
Microscope	2000 FX	**Total Non-Asbestos**	1
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	1	2.75	0.20	Nonasbestos		X		X	Tremolite	Cleavage
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	**URS Corporation**		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116176HTP2L**	**Grid Openings**	25
Client Sample #	C-1	**Total Asbestos**	0
Microscope	2000 FX	**Total Non-Asbestos**	2
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	0			NSD						
19	0			NSD						
20	1	5.70	0.40	Nonasbestos		381		30235	Tremolite	Cleavage
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	1	7.00	1.20	Nonasbestos		X		X	Tremolite	Cleavage
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548-1	**RJL QA Number**	HQ18968
RJL Sample #	0116177HTP2	**Grid Openings**	10
Client Sample #	C-2	**Total Asbestos**	11
Microscope	2000 FX	**Total Non-Asbestos**	0
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	1.90	0.10	Chrysotile	B			X		
2	1	0.90	0.10	Chrysotile	B			X		
3	1	1.75	0.07	Chrysotile	B			X		
3	2	1.00	0.03	Chrysotile				X		
4	0			NSD						
5	1	1.10	0.05	Chrysotile				30239		
6	1	4.50	0.20	Chrysotile	B			X		
6	2	1.00	0.10	Chrysotile	B			X		
7	0			NSD						
8	0			NSD						
9	1	0.55	0.10	Chrysotile	B			X		
9	2	0.60	0.05	Chrysotile				X		
10	1	0.75	0.05	Chrysotile				X		
10	2	3.00	0.10	Chrysotile	B			X		

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548-1	**RJL QA Number**	HQ18968
RJL Sample #	0116177HTP2L	**Grid Openings**	25
Client Sample #	C-2	**Total Asbestos**	1
Microscope	2000 FX	**Total Non-Asbestos**	0
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	1	10.00	0.25	Chrysotile	B			30237		
18	0			NSD						
19	0			NSD						
20	0			NSD						
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116178HTP2**	**Grid Openings**	10
Client Sample #	C-3	**Total Asbestos**	0
Microscope	2000 FX	**Total Non-Asbestos**	0
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation		
Project Number	LSH101548-1	**RJL QA Number**	HQ18968
RJL Sample #	0116178HTP2L	**Grid Openings**	25
Client Sample #	C-3	**Total Asbestos**	1
Microscope	2000 FX	**Total Non-Asbestos**	0
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	5.10	0.05	Chrysotile				30241		
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	0			NSD						
19	0			NSD						
20	0			NSD						
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	**URS Corporation**		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116179HTP2**	**Grid Openings**	10
Client Sample #	C-4	**Total Asbestos**	3
Microscope	2000 FX	**Total Non-Asbestos**	12
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	21.50	1.00	Amphibole		383		30246	Tremolite	Asbestiform
1	2	8.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
1	3	5.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
2	1	5.90	0.40	Nonasbestos		X		X	Tremolite	Cleavage
3	1	3.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
4	1	5.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
5	1	2.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
6	1	2.00	0.30	Nonasbestos		X		X	Tremolite	Cleavage
7	1	2.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
7	2	5.00	0.20	Amphibole		X		X	Tremolite	Asbestiform
7	3	1.10	0.20	Nonasbestos		X		X	Tremolite	Cleavage
7	4	2.60	0.40	Nonasbestos		X		X	Tremolite	Cleavage
7	5	4.50	0.60	Nonasbestos		X		X	Tremolite	Cleavage
8	1	3.70	0.10	Amphibole		X		X	Tremolite	Asbestiform
9	1	7.00	1.00	Nonasbestos		X		X	Tremolite	Cleavage
10	0			NSD						

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	**URS Corporation**		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116179HTP2L**	**Grid Openings**	25
Client Sample #	C-4	**Total Asbestos**	0
Microscope	2000 FX	**Total Non-Asbestos**	19
Accelerating Volt	120 **Kv**	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	1	6.00	0.60	Nonasbestos		382		30243	Tremolite	Cleavage
1	2	12.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
2	1	9.00	0.25	Nonasbestos		X		X	Tremolite	Cleavage
3	1	7.00	0.20	Nonasbestos		X		X	Tremolite	Cleavage
4	0			NSD						
5	0			NSD						
6	1	6.00	0.90	Nonasbestos		X		X	Tremolite	Cleavage
7	0			NSD						
8	0			NSD						
9	1	5.10	0.20	Nonasbestos		X		X	Tremolite	Cleavage
10	1	6.00	0.40	Nonasbestos		X		X	Tremolite	Cleavage
11	0			NSD						
12	1	7.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
12	1	5.70	0.40	Nonasbestos		X		X	Tremolite	Cleavage
13	0			NSD						
14	1	9.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
15	1	5.10	0.25	Nonasbestos		X		X	Tremolite	Cleavage
16	1	6.00	0.45	Nonasbestos		X		X	Tremolite	Cleavage
16	2	6.50	0.80	Nonasbestos		X		X	Tremolite	Cleavage
17	0			NSD						
18	0			NSD						
19	1	5.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
20	1	6.50	0.40	Nonasbestos		X		X	Tremolite	Cleavage
21	0			NSD						
22	1	6.50	0.25	Nonasbestos		X		X	Tremolite	Cleavage
23	0			NSD						
24	0			NSD						
25	1	6.20	1.10	Nonasbestos		X		X	Tremolite	Cleavage
25	2	13.00	0.60	Nonasbestos		X		X	Tremolite	Cleavage
25	3	5.10	0.40	Nonasbestos		X		X	Tremolite	Cleavage

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	URS Corporation		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116180HTP2**	**Grid Openings**	10
Client Sample #	C-5	**Total Asbestos**	16
Microscope	2000 FX	**Total Non-Asbestos**	0
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	21000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	1	5.10	0.15	Chrysotile	B			X		
3	2	2.60	0.10	Chrysotile	B			X		
3	3	1.00	0.05	Chrysotile				X		
3	4	0.70	0.05	Chrysotile				X		
3	5	0.75	0.10	Chrysotile	B			X		
3	6	0.65	0.10	Chrysotile				X		
4	1	4.00	0.05	Chrysotile				X		
5	1	3.50	0.30	Chrysotile	B			X		
5	2	3.00	0.05	Chrysotile				X		
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	1	1.00	0.05	Chrysotile	B			X		
9	2	0.60	0.05	Chrysotile				X		
9	3	2.50	0.07	Chrysotile				X		
9	4	1.00	0.07	Chrysotile				X		
10	1	2.50	0.05	Chrysotile				X		
10	2	2.00	0.10	Chrysotile	B			X		
10	3	1.00	0.05	Chrysotile				X		

NSD - No Structures Detected

RJ Lee *Group* , Inc

Count Sheet

Client Name	**URS Corporation**		
Project Number	**LSH101548-1**	**RJL QA Number**	HQ18968
RJL Sample #	**0116180HTP2L**	**Grid Openings**	25
Client Sample #	C-5	**Total Asbestos**	1
Microscope	2000 FX	**Total Non-Asbestos**	0
Accelerating Volt	120 Kv	**Filter**	PC 385 mm^2
Magnification	5000 X	**Volume**	.0 Liters
Analyst	KA	**Grid Opening Area**	0.0084 mm^2
EDS Disk		**Dilution Factor**	0.001

Field	Fiber	Length µm	Width µm	Structure Type	Morph	EDS	Photo	SAED	Amphibole Type	Comment
1	0			NSD						
2	0			NSD						
3	0			NSD						
4	0			NSD						
5	0			NSD						
6	0			NSD						
7	0			NSD						
8	0			NSD						
9	0			NSD						
10	0			NSD						
11	0			NSD						
12	0			NSD						
13	0			NSD						
14	0			NSD						
15	0			NSD						
16	0			NSD						
17	0			NSD						
18	1	5.00	0.20	Chrysotile	B			30249		
19	0			NSD						
20	0			NSD						
21	0			NSD						
22	0			NSD						
23	0			NSD						
24	0			NSD						
25	0			NSD						

NSD - No Structures Detected

APPENDIX G

APPENDIX G

DAILY SAFETY MEETING REPORTS

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC & S ARVADO Co.

Project Name: WR GRACE - PORTLAND Job No.: 1720773

Type Meeting: Date of Meeting: 01-09-01

Number of Employees Attending: 6

Total Employees on Job: 6

- *Management* ☐
- *Supervisor's* ☑
- *Foremen's* ☐
- *Tool Box* ☐
- *Tailgate* ☐
- *Safety* ☐

TOPICS DISCUSSED: SCAFFOLD SAFETY

TYPE MEETING: TOOLBOX

SUGGESTIONS OFFERED: SAFETY RAILS, PROPER CLIMBING

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Eduardo Moya

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 01-10-01

Number of Employees Attending: 6

Total Employees on Job: 6

- *Management* ☐
- *Supervisor's* ☑
- *Foremen's* ☐
- *Tool Box* ☐
- *Tailgate* ☐
- *Safety* ☐

TOPICS DISCUSSED: WORK SCOPE - NO SWEEPING -

TYPE MEETING:

SUGGESTIONS OFFERED:

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Jose G. Aguilar
Eduardo Mayen
Isabel Herrera
Roberto Barrientos
[illegible]

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC&S

Project Name: W. R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 01-11-01

Number of Employees Attending: 6

Total Employees on Job: 6

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐
- Tailgate ☐
- Safety ☐

TOPICS DISCUSSED: LIFT SAFETY

TYPE MEETING: TOOLBOX

SUGGESTIONS OFFERED: TIE OFF – DO NOT CLIMB OUT SIDE OF CAGES

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Isabel Herrera
Juan Gomez
Jose G. Aguilar
Eduardo Mejia
Roberto G. Amaneta

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE – N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 1-12-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐
- Tailgate ☐
- Safety ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: LADDER SAFETY

TYPE MEETING: SUPV. - TOOLBOX

SUGGESTIONS OFFERED: 4-1 LEAN RATIO - TIE OFF TOP OF LADDER - 3' FT. EXTENTION OVER TOP OF CLIMBING EDGE

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Eduardo Mejia
Isabel Herrera
Jesse G. Aguilar
Juan Gomez
Roberto B. Amando

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W.R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 1-13-01

Management –
Supervisor's ✓
Foremen's –
Tool Box –
Tailgate –
Safety –

Number of Employees Attending: 6
Total Employees on Job: 6

TOPICS DISCUSSED: GLOVES, HARD HATS, SAFETY GLASSES

TYPE MEETING: Supv - TOOLBOX

SUGGESTIONS OFFERED: WEAR AT ALL TIMES DURING WORK ACTIVITY

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Juan Ramirez
Eduardo Mejia
Isabel Herrera
Roberto Camacho
Jose G. Nunez

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 1-13-01

Number of Employees Attending: 6

Total Employees on Job: 6

- Management
- Supervisor's
- Foremen's ✓
- Tool Box
- Tailgate
- Safety

TOPICS DISCUSSED: ELECTRIC SAFETY

~~TYPE MEETING~~: GFI ON ALL PLUGS, DISPOSE OF FRAYED EXTENTION CORDS
ALL PLUGS MUST HAVE GROUND POLE

SUGGESTIONS OFFERED:

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Gene C
Eduardo Moya
Jose G Aguilar
Roberto B Amancio
Isabel Herrera

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W. R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 01-16-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐
- Tailgate ☐
- Safety ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: SLIPS + TRIPS + FALLS

TYPE MEETING: TOOLBOX

SUGGESTIONS OFFERED: HOLD ON to RAILINGS WHEN EVER GOING UP OR DOWN & WALK SURFACE.

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC & S

Project Name: W.R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 01-17-01

Number of Employees Attending: 6

Total Employees on Job: 6

- *Management* ☐
- *Supervisor's* ☑
- *Foremen's* ☐
- *Tool Box* ☐
- *Tailgate* ☐
- *Safety* ☐

TOPICS DISCUSSED: TIE OFF WHEN ON MAN LIFTS

TYPE MEETING:

SUGGESTIONS OFFERED:

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Isabel Hiroll

Eduardo Mejia

Jose G Aguilar

Roberto Amancio

Juan Gomez C

FORM 9916 6/99

CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE - N. HARDING Job No.: 1720773

Type Meeting: Date of Meeting: 01-18-01

Number of Employees Attending: 6

Total Employees on Job: 6

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐
- Tailgate ☐
- Safety ☐

TOPICS DISCUSSED: WATER HAZARD AROUND ELECTRICIT/

TYPE MEETING: TOOLBOX

SUGGESTIONS OFFERED: GROUND FAULT ONLY - COVER PLUGS + RECEPTICLES.

ACTION TAKEN:

ACCIDENTS REVIEWED:

NEAR MISS:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES ATTENDING

Roberto Amancio
Isabel Herrera
Eduardo Mena
Jose G Alcala
Juan Gomez C.

FORM 9916 5/99

SAFETY FIRST

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W.R GRACE N. HARDING

Type of Meeting:

Date of Meeting: 01-19-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: EYE SAFETY

TYPE OF MEETNG:

SUGGESTIONS OFFERED: PROTECT EYES (GOGGLES) WHEN ENCAPSULATING

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Isabel Haro

Eduardo Mena

Jose G Vieira

JUAN GOMEZ

SAFETY FIRST

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 01-20-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: LIFTING TECHNIQUES

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: BEND AT THE KNEES NOT the BACK
PROPER GRIPPING

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Isabel Herrera Eduardo Mejia

Jose G. Aguilar

Juan Gomez C.

Roberto Alvarado

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC & S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 01-22-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: FALL PROTECTION

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: TIE OFF ON ALL MOVEMENTS, SCAFFOLDS ON ELEVATED HEIGHT

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Isabel Herrera

Juan Gomez O.

Eduardo Mejia

Roberto B Amanco

Jose G Aguirre

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 01-23-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: _____

Total Employees on Job: _____

TOPICS DISCUSSED: HARD HATS, SAFETY GLASSES GLOVES, SAFETY HARNESSES

TYPE OF MEETNG:

SUGGESTIONS OFFERED:

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Eduardo Mejia

Jose G Aguilar

Isabel Hasen

JUAN GOMEZ

Robert A Amaniere

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 01-24-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending:

Total Employees on Job:

TOPICS DISCUSSED: Don't Be afraid to ask for Help

TYPE OF MEETNG:

SUGGESTIONS OFFERED: Know if thing are to Heavy or Bulky to Lift By yourself - ask for Help!

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Eduardo Mejia — Isabel Herrera

Jose G Aguilar

Roberto Amancio

Juan Gomez

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE N. HARDING

Type of Meeting:

Date of Meeting: 01-25-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: _____

Total Employees on Job: _____

TOPICS DISCUSSED: PROPONE HEATER SAFETY + PROCEEDURES

TYPE OF MEETNG: TOOL BOX

SUGGESTIONS OFFERED:

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Pablo Samaniego Juan Gomez

Eduardo Mejia

Jose G Aguilar

Isabel Higuera

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: WR GRACE — N. HARDING

Type of Meeting:

Date of Meeting: 01-26-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: LADDERS

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: TIE OFF EXT LADDERS
EXTEND LADDER 3' ABOVE CLIMBING HEIGHT
4-1 LEAN RATIO

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Juan Gomez Jose G Aguilar

Isidro Flores

Eduardo Mejia

Roberto Amaniz

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 1-27-01

Management ☐

Supervisor's ☑

Foremen's ☐

Tool Box ☑

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: RAILROAD TRACKS - (THE FACILITY IS SURROUNDED BY R&R TRACKS)

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: WHEN WARNING LIGHTS ARE ON DO NOT ATTEMPT TO BEAT TRAIN ACCROSS - YOUR CAR COULD STALL - ALLWAYS LOOK BOTH WAYS BEFORE CROSSING

~~ACTION TO BE TAKEN~~:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Eduardo Moya

Jesse G Nevine

[illegible]

Juan Gomez S.

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 1-29-01

- Management ☐
- Supervisor's ☑
- Foremen's ☐
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: POWER WASHING SAFETY -

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: ALWAYS WEAR GOGGLES & GLOVES, NEVER AIM TOWARDS ANOTHER WORKER, LAY GUN DOWN POINTING AWAY FROM YOU.

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Juan Gomez, Eduardo Mejia

Jose G Nieves

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC&S

Project Name: W.R GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 1-30-01

- Management ☐
- Supervisor's ☑
- Foremen's ☑
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: EYE SAFETY

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: SAFETY GLASSES DURING NORMAL WORK - GOGGLE WHEN GRINDING, FACE SHIELDS FOR POWER WASHING

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Teofilo Herrera — Juan Gomez O.

Eduardo Mena

Roberto B Amancio

Jose G Aguilar

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC+S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 01-31-01

- Management ☐
- Supervisor's ☑
- Foremen's ☑
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: ELECTRIC IN A WET ENVIRONMENT

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: ALL POWER IS to BE GFI PROTECTED
REMOVE CORDS FROM WET FLOORS
ALL HOUSE POWER to BE LOCKED OUT

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Juan Gomez
Isabel Herrera
Eduardo Mejia
Jose G. Nunez
Roberto B. Amancio

SAFETY FIRST

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CONSTRUCTION SAFETY MEETING REPORT

Company Name: AC + S

Project Name: W.R. GRACE - N. HARDING

Type of Meeting:

Date of Meeting: 2-1-01

- Management ☐
- Supervisor's ☑
- Foremen's ☑
- Tool Box ☐

Number of Employees Attending: 6

Total Employees on Job: 6

TOPICS DISCUSSED: PRACTICE SAFETY AT HOME!

TYPE OF MEETNG: TOOLBOX

SUGGESTIONS OFFERED: TEACH CHILDREN WHAT YOU LEARN AT WORK

ACTION TO BE TAKEN:

ACCIDENTS REVIEWED:

NEAR MISSES:

SUPERINTENDENT'S REMARKS:

SIGNATURES OF EMPLOYEES IN ATTENDANCE

Eduardo Meyia — Juan Gomez

Roberto Amancio

[illegible]

Isabel Herrera

APPENDIX H

CONTAINMENT LOGS

ACandS, Inc.

11 W I-70 Frontage Road North, #100
Arvada, CO 80002
Tel: 303-940-9700 Fax: 303-940-9797

USE A SEPARATE LOG FOR EACH REGULATED AREA; POST AT ENTRY POINT. YOU MUST USE INK TO FILL OUT FORM.

CONTAINMENT LOG

DATE:	TIME:	SHIFT:
01-11-01	9:30A	DAY

PROJECT NUMBER:	PROJECT NAME:
1720773	W.R. GRACE - N. HARDING

SUPERVISOR:	PROJECT LOCATION:
J. SIMPSON	PORTLAND OR.

PRINTED NAME / SOCIAL SECURITY NUMBER	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	SIGNATURE
585-73-8867	9:30	11:55 A	1:10 P	4:55 P					Eduardo Mejia
631-56-3563			2:00 P	4:00 P					Roberto B Amancio
456-99-8866			2:00 P	4:00 P					Jose G Aguilar
465-71-9753	9:30	11:55 A	1:10 P	4:55 P					Isabel Herrera
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									
- -									

YOUR SIGNATURE CERTIFIES THAT YOU HAVE READ OR BEEN ADVISED OF THE PROPER PROTECTIVE CLOTHING AND EQUIPMENT TO BE WORN IN THE REGULATED AREA

ACandS, Inc.

41 W I-70 Frontage Road North, #100
rvada, CO 80002
el: 303-940-9700 Fax: 303-940-9797

USE A SEPARATE LOG FOR EACH REGULATED AREA; POST AT ENTRY POINT. YOU MUST USE INK TO FILL OUT FORM.

CONTAINMENT LOG

DATE	TIME:	SHIFT:
1-29-01	7:05 AM	DAY - BALLROOM

PROJECT NUMBER:	PROJECT NAME:
1720773	W.R. GRACE - N. HARDING

SUPERVISOR:	PROJECT LOCATION:
J. SIMPSON	PORTLAND OREGON

PRINTED NAME / SOCIAL SECURITY NUMBER	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	SIGNATURE
631 563563	7:05	11:50	1:05	5:15					Roberto Amancio
465 71 9753	7:05	11:50	1:05	5:15					Isabel Herrera
456-99-8860	7:05	11:50	1:05	5:15					Jose G Aguilar
585-73-8867	7:05	11:50	1:05	5:15					Eduardo Mejia
407-76-0630	8:10	10:30	2:00 p	4:30 p					

YOUR SIGNATURE CERTIFIES THAT YOU HAVE READ OR BEEN ADVISED OF THE PROPER PROTECTIVE CLOTHING AND EQUIPMENT TO BE WORN IN THE REGULATED AREA

ACandS, Inc.

'1 W I-70 Frontage Road North, #100
ada, CO 80002
303-940-9700 Fax: 303-940-9797

USE A SEPARATE LOG FOR EACH REGULATED AREA; POST AT ENTRY POINT. YOU MUST USE INK TO FILL OUT FORM.

CONTAINMENT LOG

DATE:	TIME:	SHIFT:
1-30-01	7:00 AM	DAY - BALLROOM
PROJECT NUMBER: 1720773	PROJECT NAME: W.R. GRACE - N. HARDING	
SUPERVISOR: SIMPSON	PROJECT LOCATION: PORTLAND OREGON	

PRINTED NAME / SOCIAL SECURITY NUMBER	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	SIGNATURE
465-71-9753	7:00	11:45	1:10	5:15 p					Isabel Lerard
585-73-8867	7:00	11:45	1:10	5:15 p					Eduardo Mejia
631.56.3563	7:00	11:45	1:10	5:15					Roberto B Amancio
456-99-8860	7:00	11:45	1:10	5:11					Jose G Navarro
407.76.0630	8:00 p	9:15 A	1:10 p	2:00 p	4:00 p	5:00 p			John Simpson

YOUR SIGNATURE CERTIFIES THAT YOU HAVE READ OR BEEN ADVISED OF THE PROPER PROTECTIVE CLOTHING AND EQUIPMENT TO BE WORN IN THE REGULATED AREA

ACandS, Inc.

11 W I-70 Frontage Road North, #100
Arvada, CO 80002
Tel: 303-940-9700 Fax: 303-940-9797

CONTAINMENT LOG

USE A SEPARATE LOG FOR EACH REGULATED AREA; POST AT ENTRY POINT. YOU MUST USE INK TO FILL OUT FORM.

DATE:	TIME:	SHIFT:
01-31-01	700A	DAY - BALL ROOM AREA
PROJECT NUMBER: 1720773	PROJECT NAME: W.R. GRACE - N. HARDING	
SUPERVISOR: SIMPSON	PROJECT LOCATION: PORTLAND OREGON	

PRINTED NAME / SOCIAL SECURITY NUMBER	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	SIGNATURE
585-73-8867	700A	1150A	110P	515P					Eduardo Mejia
456-99-8860	700	1150	110	515					Jose G Aguilar
631-56-3563	700	1150	110	515					Roberto B Amancio
465-71-9753	700	1150	110	515					Lonzel Herrera
407-76-0630	810A	1050A	155P	430P					John Simpson
- -									
- -									
- -									
- -									
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YOUR SIGNATURE CERTIFIES THAT YOU HAVE READ OR BEEN ADVISED OF THE PROPER PROTECTIVE CLOTHING AND EQUIPMENT TO BE WORN IN THE REGULATED AREA

ACandS, Inc.

CONTAINMENT LOG

8141 W I-70 Frontage Road North, #100
...da, CO 80002
303-940-9700 Fax: 303-940-9797

USE A SEPARATE LOG FOR EACH REGULATED AREA; POST AT ENTRY POINT. YOU MUST USE INK TO FILL OUT FORM:

DATE:	TIME:	SHIFT:
FEB 1, 01	7:00 AM	DAY - 'BALLROOM'
PROJECT NUMBER: 1720773	PROJECT NAME: W.R. GRACE - N. HARDING	
SUPERVISOR: SIMPSON	PROJECT LOCATION: PORTLAND OREGON	

PRINTED NAME / SOCIAL SECURITY NUMBER	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	TIME IN	TIME OUT	SIGNATURE
585-73-8860	705	1100	105	500					Eduardo Mejia
631-56-3565	705	1100	105	500					Roberto Amaro
556-99-8860	705	1100	105	500					Jose G. Aguilar
165-71-9753	705	1100	105	500					Isabel Herrera
467-76-0630	710	900							John Simpson

...TURE CERTIFIES THAT YOU HAVE READ OR BEEN ADVISED OF THE PROPER PROTECTIVE ...NG AND EQUIPMENT TO BE WORN IN THE REGULATED AREA

APPENDIX I

AIR MONITORING DATA

- URS Site Monitoring
- ACandS Personnel Monitoring

AIR MONITORING DATA

- URS Site Monitoring

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827

Project Contact: BOB MARIAM

Location: 2335 N. HARDING PORTLAND OR.

Sample Collection by: TIM GISH

Date: 1·09·01

Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓

Filter ECA: ✓ 385 mm² ___ mm²

Microscope Field Area: ✓ 0.00785 mm² ___ mm²

PCM Filter: ✓ 0.8um 25 mm Mfr ___ 0.8um 37 mm Lot#

PCM Analyst: TIM GISH

TEM Filter: ___ MCE ___ <0.45um 25mm Mfr ___ PC ___ <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate (LM) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
01·09·01	Field Blank	BLANK	~~CU~~ PREP/B								0/100		
01·09·02	Field Blank	BLANK	PREP/B								0/100 Ave. =		
0109·03	B	NW CORNER By DOCK	PREP/B	1033	1547	314	5.2	5.1	5.2	1633	24/100	.002	.007
0109·04	B	S. WALL OF BALLROOM	PREP/B	1038	1553	315	5.6	5.6	5.6	1764	21/100	.002	.006
0109·05	B	N. WALL OF W. HOUSE OFFICE	PREP/B	1044	1551	307	5.3	5.3	5.3	1627	17/100	.002	.005
	Blind Recount												

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: W R GRACE 805827.01

Project Contact: BOB MARIAM

Location: 2335 N. HARDING PORTLAND OR

Sample Collection by: TIM GISH

Date: 1.10.01

Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓

Filter ECA ___ 385 mm² ___ mm²

Microscope Field Area: ___ 0.00785 mm² ___ mm²

PCM Filter: ___ 0.8um 25 mm MA ___ 0.8um 37 mm Lot#

PCM Analyst: TIM GISH

TEM Filter: ___ MCE ___ <0.45um 25mm MA ___ PC ___ <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(LM) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0110.01	Field Blank	BLANK									0/100		
0110.02	Field Blank	BLANK									0/100		
0110.03	OWA	SW CORNER WA#1 EAT	HEPA VAC C/U	0741	1704	563	5.6	5.5	5.6	3153	32/100	.001	.005
0110.04	OWA	SE CORNER WA#1 EAT	HEPA VAC C/U	0744	1701	557	5.1	5.1	5.1	2841	21/100	.001	.004
	Blind Recount												

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827.01

Project Contact: BOB MARIAM

Location: 2335 N. HARDING PORTLAND, OR.

Sample Collection by: TIM GISH

PCM Analyst: TIM GISH

Date: 1-11-01

Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓

Filter ECA: ✓ 385 mm² ____ mm²

Microscope Field Area: ✓ 0.00785 mm² ____ mm²

PCM Filter: ✓ 0.8um 25 mm MA ____ 0.8um 37 mm Lot#

TEM Filter: ____ MCE ____ <0.45um 25mm MA ____ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0111-01	Field Blank	BLANK									0/100		
0111-02	Field Blank	BLANK									0/100 Ave. =		
0111-03	OWA	SW CORNER WA#1 EXT.	HEPA VAC C/U	0751	1709	558	5.5	5.5	5.5	3069	43/100	.001	.007
0111-04	OWA	SE CORNER WA#1 EXT.	HEPA VAC C/U	0755	1711	556	5.2	5.2	5.2	2891	34/100	.001	.006
	Blind Recount												

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE
805827.01

Project Contact: BOB MARIAM

Location: 2335 N. HARDING

Sample Collection by: TIM GISH

Date: 12 JAN 01

Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓

Filter ECA: 385 mm² ___ mm²

Microscope Field Area: 0.00785 mm² ___ mm²

PCM Filter: ✓ 0.8um 25 mm MA ___ 0.8um 37 mm Lot#

PCM Analyst: TIM GISH

TEM Filter: ___ MCE ___ <0.45um 25mm MA ___ PC ___ <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Time (24 hour clock): Stop	Total Minutes	Flow Rate (L/M): Start	Flow Rate (L/M): Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0112-01	Field Blank	BLANK									0/100		
0112-02	Field Blank	BLANK									0/100		
0112-03	OWA	SW CORNER WA #1 EXTERIOR	HEPA VAC C/U	0740	1705	565	5.4	5.4	5.4	3051	35/100	.001	.006
0112-04	OWA	SE CORNER WA #1 EXT	HEPA VAC C/U	0743	1707	564	5.2	5.1	5.2	2933	27/100	.001	.005
0112-05 DM09	CL	WA #1A	—	0947	1256	189	9.5	9.5	9.5	1796	13/100	.001	.004
0112-06 DM13	CL	WA #1A	—	0950	1256	186	9.5	9.5	9.5	1767	11/100	.001	.003
0112-07 DM08	CL	WA #1A	—	0949	1257	188	9.5	9.5	9.5	1786	16/100	.001	.004
Blind Recount													

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Please use reverse side of form for sampling location map.

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827.01

Project Contact: BOB MARRIAM

Location: 2335 N. HARDING PORTLAND OR

Sample Collection by: Tim Gish

PCM Analyst: Tim Gish

Date: 13 JAN 01

Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓

Filter ECA: ✓ 385 mm² ____ mm²

Microscope Field Area: ✓ 0.00785 mm² ____ mm²

PCM Filter: ___ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot#

TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate (L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0113-01	Field Blank	BLANK									0/100		
0113-02	Field Blank	BLANK									0/100 Ave. =		
0113-03	OWA	SW CORNER WA#1	CU	0746	1617	511	5.1	5.2	5.2	2657	31/100	.001	.006
0113-04	OWA	SE CORNER WA#1	CU	0748	1614	506	5.0	5.0	5.0	2530	25/100	.001	.005
	Blind Recount												

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Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827.01	Project Contact: BOB MARRIAM	Location: 2335 N. HARDING PORTLAND OR	Sample Collection by: Tim Gish PCM Analyst: Tim Gish
Date: 15JAN01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓	Filter ECA ✓ 385 mm² ____ mm² / Microscope Field Area: ✓ 0.00785 mm² ____ mm²	PCM Filter: ___ 0.8um 25 mm Mfl ___ ___ 0.8um 37 mm Lot# / TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ ___ PC ___ <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description / Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0115-01	Field Blank	BLANK									1/100		
0115-02	Field Blank	BLANK									0/100 Ave. =		
0115-03	OWA	SW Corner WA #1	CU	0804	1641	517	5.2	5.2	5.2	2688	37/100	.001	.007
0115-04	OWA	SE Corner WA #1	CU	0806	1639	513	5.0	5.0	5.0	2565	29/100	.001	.006
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827.01	Project Contact: BOB MARRIAM	Location: 2335 N. HARDING	Sample Collection by: TIM GISH PCM Analyst: TIM GISH
Date: 16 JAN 01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓	Filter ECA ___ 385 mm² ___ mm² / Microscope Field Area: ✓ 0.00785 mm² ___ mm²	PCM Filter: ✓ 0.8um 25 mm Mfl ____ 0.8um 37 mm Lot# / TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ____ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description / Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0116-01	Field Blank	BLANK									0/100		
0116-02	Field Blank	BLANK									Ave. = 0/100		
0116-03	OWA	SW CORNER WA #1	CU	0740	1653	553	5.2	5.2	5.2	2876	27/100		.005
0116-04	OWA	SE CORNER WA #1	CU	0742	1650	548	5.0	5.0	5.0	2740	20/100		.004
		Blind Recount											

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Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827	Project Contact: BOB MARRIAM	Location: 2335 N. HARDING PORTLAND OR.	Sample Collection by: TIM GISH PCM Analyst: TIM GISH
Date: 17 JAN 01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓	Filter ECA ✓385 mm² ____ mm² / Microscope Field Area: ✓0.00785 mm² ____ mm²	PCM Filter: ✓0.8um 25 mm Mfl ____ 0.8um 37 mm Lot# ____ TEM Filter: ____ MCE ____ <0.45um 25mm Mfl ____ PC ____ <0.45um 37mm Lot# ____

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate (L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0117-01	Field Blank	BLANK									0/100		
0117-02	Field Blank	BLANK									0/100 Ave. =		
0117-03	OWA	SW CORNER WA#1	CU	0749	1646	537	5.2	5.0	5.1	2739	23/100		.004
0117-04	OWA	SW CORNER WA#1	CU	0751	1644	533	5.0	5.0	5.0	2665	16/100		.003
	Blind Recount												

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: WR GRACE 805827.01	Project Contact: BOB MARRIAM	Location: 2335 N. HARDING	Sample Collection by: Tim GISH PCM Analyst: Tim GISH
Date: 18JAN01	Means of Pump Calibration: Gilian Gilibrator # \ Calibrated Rotometer # X	Filter ECA: 585 mm² mm²	Microscope Field Area: 0.00785 mm² mm²
		PCM Filter: 0.8um 25 mm MA ___ 0.8um 37 mm Lot#	TEM Filter: ___ MCE ___ <0.45um 25mm MA ___ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0118-01	Field Blank	BLANK									0/100		
0118-02	Field Blank	BLANK									0 Ave. = /100		
0118-03	OWA	SW CORNER WA #1	FINAL CLEAN	0803	1635	512	5.1	5.1	5.1	2611	21/100	.001	.004
0118-04	OWA	SE CORNER WA #2	FINAL CLEAN	0805	1634	509	5.0	5.0	5.0	2545	17/100	.001	.003
	Blind Recount												

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client	Project Contact:	Location:	Sample Collection by:
WR GRACE 805827.01	BOB MARRAM	2335 N. HARDING PORTLAND OR	Tim Gish PCM Analyst: Tim Gish

Date	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter:	TEM Filter:
20JAN01	Gilian Gilibrator # ____ Calibrated Rotometer # ✓	✓ 385 mm² mm²	✓ 0.00785 mm² mm²	✓ 0.8um 25 mm MA ____ 0.8um 37 mm Lot#	___ MCE ___ <0.45um 25mm MA ____ PC <0.45um 37mm Lot#

Sample # Pump #	Type	Sample Description Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0120.01	Field Blank	BLANK											
0120.02	Field Blank	BLANK									Ave =		
0120-03	CL	N. WALL WA#1		0717	0924	127	9.8	9.8	9.8	1245	9/100		.004
0120-04	CL	NW CORNER WA#1		0719	0924	125	9.7	9.7	9.7	1213	11/100		.004
0120-05	CL	CENTER W.WALL OFFICE AREA		0722	0925	123	9.9	9.9	9.9	1218	7/100		.003
0120-06	CL	TOP OF RAMP WA#1		0724	0925	121	9.9	9.8	9.8	1186	9/100		.004
0120-07	CL	N. WALL OF BASEMENT		0725	0928	123	9.8	9.8	9.8	1205	6/100		.002
0120-07		Blind Recount								1205	7/100		.003

Please use reverse side of form for sampling location map.

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # 805827.0301

Client:	Project Contact:	Location:	Sample Collection by:
WR GRACE PORTLAND ORG	Bob Morrison	2335 N. HARDING	Jim Stout
Date: 1-23-01	Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓	Filter ECA ___ 385 mm² ___ mm²	Microscope Field Area: ✓ 0.00785 mm² ___ mm²
	PCM Filter: ✓ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot#		PCM Analyst: Jim Stout
	TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC <0.45um 37mm Lot#		

Sample # Pump #	Type	Sample Description Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0123-01	Field Blank												
0123 02	Field Blank										Ave. =		
0123 03	BG	CRATER WALL S WALL	PREP	1000	1600	360	7.0	7.0	7.0	2520	11/100	0019	0.0021
0123 04	BG	CRATER E WALL	PREP	1000	1600	360	7.0	7.0	7.0	2520	9/100	0019	<LOQ
0123 05	BG	CRATER N WALL	PREP	1001	1601	360	7.0	6.9	7.0	2520	11/100	0019	0.0021
0123 06	BG	CRATER W WALL	PREP	1001	1601	360	7.0	7.0	7.0	2520	13/100	0019	0.0025
0123 07	BG	CRATER	PREP	1001	1601	360	7.0	7.0	7.0	2520	11/100	0019	0.0021
	Blind Recount												

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SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # 805827.0701

Client	Project Contact	Location	Sample Collection by
W.R. Grace Portland	Bob Merrian	2335 N. Harding	Jim Stone
			PCM Analyst: Jim Stone

Date	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter	TEM Filter
1-29-01	Gilian Gilibrator # ____ Calibrated Rotometer # ✓	385 mm² / ____ mm²	0.00785 mm² / ____ mm²	0.8um 25 mm MA ____ / 0.8um 37 mm Low	____ MCE ____ <0.45um 25mm MA ____ / PC <0.45um 37mm Low

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate (L/M) Start	Stop	Average	Air Volume (Liters)	Fibers / Fields	LOQ	Fiber/cc
0129-01	Field Blank												
0129-02	Field Blank										Ave =		
0129-03	OWA	E/Cranka Wall	Run	0715	1530	495	7.0	6.9	7.0	3465	5/100	0.004	<LOQ
0129-04	OWA	W/Cranka Wall	Run	0715	1530	495	7.0	7.0	7.0	3465	3/100	0.004	<LOQ
0129-05	OWA	N/E Cranka	Run	0715	1530	495	7.0	7.0	7.0	3465	10/100	0.004	0.0044
0129-06	P	Jose Aguilar 456-99-8860	Run	0700	1540	520	1.5	1.5	1.5	780	13/100	0.0062	0.0081
0129-07	P	Juan Gomez 463-97-0230	Run	0700	1540	520	1.5	1.5	1.5	780	10/100	0.0062	0.0062
		Blind Recount											

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

CHARGE # _____

(PLEASE PRINT NEATLY)

Client: WR GRACE	Project Contact: BOB MARIAM	Location: 2335 N. Harding	Sample Collection by: Tim Gish PCM Analyst: Tim Gish
Date: 05 FEB 01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # 2	Filter ECA: 385 mm² mm²	Microscope Field Area: 0.00785 mm² mm²
	PCM Filter: 0.8um 25 mm MA ____ 0.8um 37 mm Low	TEM Filter: ___ MCE ___ <0.45um 25mm MA ____ PC <0.45um 37mm Low	

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Stop	Total Minutes	Flow Rate (L/M): Start	Stop	Average	Air Volume (Liters)	Fibers/Fields	LOQ	Fibers/cc
0205-01	Field Blank										0/100		
0205-02	Field Blank										0/100 Ave =		
0205-03	CL	N. WALL WA#2		0746	1032	166	9.1	9.1	9.1	1511	7/100		<LOQ
0205-04	CL	NE CORNER WA#2		0748	1032	164	9.5	9.5	9.5	1558	7/100		<LOQ
0205-06	CL	WEST WALL WA#2		0749	1034	165	9.8	9.7	9.8	1617	6/100		<LOQ
0205-07	CL	CENTRAL BOWL PACK		0752	1034	162	8.7	8.7	8.7	1409	3/100		<LOQ
0205	CL	NEXT TO DECON EXIT		0754	1035	161	9.4	9.4	9.4	1513	4/100		<LOQ
		Blind Recount											

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

AIR MONITORING DATA

ACandS Personnel Monitoring

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # ____________

Client: AC.S	Project Contact: Joe Wood	Location: 2335 N. Harding Portland OR.	Sample Collection by: Tim Gish
Date: 1.09.01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓	Filter ECA ✓385 mm² ____ mm²	Microscope Field Area: ✓ 0.00785 mm² ____ mm²
		PCM Filter: ___ 0.8um 25 mm Mft ___ 0.8um 37 mm Lot# ___	PCM Analyst: Tim Gish TEM Filter: ___ MCE ___ <0.45um 25mm Mft ___ PC ___ <0.45um 37mm Lot# ___

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Stop	Total Minutes	Flow Rate(L/M): Start	Stop	Average	Air Volume (Liters)	Fbrs / Flds	LOQ	Fibers/cc
0109.01	Field Blank										0/100		
0109.02	Field Blank										0/100 Ave. =		
0109.03P	P	Jose Aguilar 456.99.8860	PREP	0931	1003	32	1.2	1.2	1.2	38	11/100		.142
0109.04P	P	Jose Aguilar 456.99.8860	PREP	1003	1644	401	1.2	1.2	1.2	481	35/100		.036
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: A.C.S
805827.01

Project Contact: JOE WOOD

Location: 2335 N. HARDING PORTLAND OR

Sample Collection by: TIM GISH

Date: 1·10·01

Means of Pump Calibration: Gilian Gilibrator # _____ Calibrated Rotometer # _____

Filter ECA ___ 385 mm² ___ mm²

Microscope Field Area: ___ 0.00785 mm² ___ mm²

PCM Filter: ___ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot#

PCM Analyst: TIM GISH

TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Stop	Total Minutes	Flow Rate(L/M): Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0110·01	Field Blank										0/100		
0110-02	Field Blank										0/100 Ave. =		
0110·03	P	EX EDUARDO MEJIA 585·73·8867	C/U	752	830	32	1.5	1.5	1.5	48	16/100		.163
0110·04	P	EDUARD MEJIA 585·73·8867	C/U	830	1622	472	1.5	1.5	1.5	708	FILTER OVERLOAD		
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC·S

Project Contact: JOE WOOD

Location: 2335 N. HARDING PORTLAND OR.

Sample Collection by: TIM GISH

Date: 1·11·01

Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓

Filter ECA: ✓ 385 mm² ___ mm²

Microscope Field Area: ✓ 0.00785 mm² ___ mm²

PCM Filter: ✓ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot#

PCM Analyst: TIM GISH

TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Time (24 hour clock): Stop	Total Minutes	Flow Rate(L/M): Start	Flow Rate(L/M): Stop	Flow Rate(L/M): Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0111-01	Field Blank										0/100		
0111-02	Field Blank										Ave. = 0/100		
0111-03P	P Ex	JUAN GOMEZ 463·97·0230	HEPA VAC C/U	0747	0820	33	1.5	1.5	1.5	50	14/100		.137
0111-04P	P	JUAN GOMEZ 463·97·0230	HEPA VAC C/U	0820	1641	501	1.5	1.5	1.5	752	38/100		.025
		Blind Recount											

Please use reverse side of form for sampling location map.

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC.S

Project Contact: JOE WOOD

Location: 2235 N. HARDING

Sample Collection by: TIM GISH

Date: 12 JAN 01

Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓

Filter ECA: ___ 385 mm² ___ mm²

Microscope Field Area: ___ 0.00785 mm² ___ mm²

PCM Filter: ___ 0.8um 25 mm MA ___ 0.8um 37 mm Lot#

PCM Analyst: TIM GISH

TEM Filter: ___ MCE ___ <0.45um 25mm MA ___ PC ___ <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Stop	Total Minutes	Flow Rate (L/M): Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0112-01	Field Blank	BLANK									0/100		
0112-02	Field Blank	BLANK									0/100 Ave. =		
0112-03 P	P EX	ISABEL HERRERA 465.71.4753	C/U	0757	0829	32	1.4	1.4	1.4	45	9/100		.098
0112-04 P	P	I. HERRERA 465.71.4753	C/U	0829	1711	522	1.4	1.4	1.4	731	26/100		.017
	Blind Recount												

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Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC.S

Project Contact: JOE WOOD

Location: 2335 N. HARDING PORTLAND OR

Sample Collection by: Tim Gish

PCM Analyst: Tim Gish

Date: 13 JAN 01

Means of Pump Calibration: Gilian Gilibrator # ___ Calibrated Rotometer # ✓

Filter ECA ___ 385 mm² ___ mm²

Microscope Field Area: ✓ 0.00785 mm² ___ mm²

PCM Filter: ___ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot#

TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC ___ <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Stop	Total Minutes	Flow Rate (L/M): Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0113 01	Field Blank	BLANK									0/100		
0113-02	Field Blank	BLANK									0/100 Ave. =		
0113-03?	P	ROBERTO AMANCIO 631.56.3563	HEPA VAC	0739	0811	32	1.0	1.0	1.0	32	12/100		.18
0113-04?	P	R. AMANCIO 631.56.3563	HEPA VAC	0811	1639	508	1.0	1.0	1.0	508	FILTER OVERLOAD		—
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC-S	Project Contact: JOE WOOD	Location: 2335 N. HARDING PORTLAND OR	Sample Collection by: TIM GISH PCM Analyst: TIM GISH
Date: 15 JAN 01	Means of Pump Calibration: Gilian Gilibrator # _____ Calibrated Rotometer #	Filter ECA ___ 385 mm² ___ mm²	Microscope Field Area: ___ 0.00785 mm² ___ mm²
PCM Filter: ___ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot#	TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC ___ <0.45um 37mm Lot#		

Sample # / Pump #	Type	Sample Description / Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fors Flds	LOQ	Fibers/cc
0115-01	Field Blank										0/100		
0115-02	Field Blank										0/100 Ave. =		
0115-03P	P EX	JUAN GOMEZ 463-97-0230	CU	0746	0819	33	1.4	1.4	1.4	46	14/100		.149
0115-04P	P	JUAN GOMEZ 463-97-0230	CU	0819	1647	508	1.4	1.4	1.4	711	29/100		.020
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC S	Project Contact: JOE WOOD	Location: 2335 N. HARDING	Sample Collection by: TIM GISH PCM Analyst: TIM GISH
Date: 11-7-01	Means of Pump Calibration: Gilian Gilibrator # _____ Calibrated Rotometer #	Filter ECA ___ 385 mm² ___ mm² / Microscope Field Area: ___ 0.00785 mm² ___ mm²	PCM Filter: ___ 0.8um 25 mm Mfl ___ 0.8um 37 mm Lot# / TEM Filter: ___ MCE ___ <0.45um 25mm Mfl ___ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description / Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0116-01P	Field Blank												
0116-02P	Field Blank										Ave. =		
0116-03P	P	JOSE AGUILAR 456-99-8860	CU	0804	0835	31	1.0	1.0	1.0	31	7/100		.111
0116-04P	P	JOSE AGUILAR 456-99-8860	CU	0835	1641	486	1.0	1.0	1.0	486	FILTER OVERLOAD		
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC.S	Project Contact: JOE WOOD	Location: 2335 N. HARDING PORTLAND OR	Sample Collection by: Tim GISH
Date: 17JAN01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # ✓	Filter ECA ✓385 mm² ____ mm²	Microscope Field Area: ✓0.00785 mm² ____ mm²
PCM Filter: ✓0.8um 25 mm MA ____ 0.8um 37 mm Lot#	PCM Analyst: Tim GISH	TEM Filter: ____ MCE ____ <0.45um 25mm MA ____ PC <0.45um 37mm Lot#	

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate(L/M) Start	Stop	Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0117.01P	Field Blank										0/100		
0117.02P	Field Blank										0/100 Ave. =		
0117.03P EX	P	E. Mejia 585.738867	CU	0755	0828	33	1.0	1.0	1.0	33	11/100		.163
0117.04P	P	E. MEJIA 585.73.8867	CU	0828	1639	491	1.0	1.0	1.0	491	34/100		.034
		Blind Recount											

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Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # _____

Client: AC·S	Project Contact: JOE WOOD	Location: 2335 HARDING PORTLAND OR	Sample Collection by: TIM GISH PCM Analyst: TIM GISH
Date: 18JAN01	Means of Pump Calibration: Gilian Gilibrator # ____ Calibrated Rotometer # X	Filter ECA: X 385 mm² ____ mm²	Microscope Field Area: X 0.00785 mm² ____ mm²
		PCM Filter: X 0.8um 25 mm Mfr ____ 0.8um 37 mm Lot#	TEM Filter: ___ MCE ___ <0.45um 25mm Mfr ____ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Time (24 hour clock) Stop	Total Minutes	Flow Rate(L/M) Start	Flow Rate(L/M) Stop	Flow Rate(L/M) Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0118·01 P	Field Blank	BLANK									0/100		
0118·02 P	Field Blank	BLANK									0/100 Ave. =		
0118·03 P	PEX	JUAN GOMEZ 463-97-0230	PW C/U	0757	0830	33	1.0	1.0	1.0	33	9/100		.134
0118·04 P	P	JUAN GOMEZ 463-97-0230	PW C/U	0830	1622	472	1.0	1.0	1.0	472	26/100		.027
	Blind Recount												

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations;
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # 805827.030

Client:	Project Contact:	Location:	Sample Collection by:
WR GRACE PORTLAND, ORE	Bob Harriman	2335 N. Harding	Jim Stout PCM Analyst: Jim Stout

Date:	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter:	TEM Filter:
1-24-01	Gilian Gilibrator # _____ Calibrated Rotometer #	___ 385 mm² ___ mm²	___ 0.00785 mm² ___ mm²	___ 0.8um 25 mm Mfl ___ ___ 0.8um 37 mm Lot#	___ MCE ___ <0.45um 25mm Mfl ___ ___ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Time (24 hour clock) Stop	Total Minutes	Flow Rate (L/M) Start	Flow Rate (L/M) Stop	Flow Rate (L/M) Average	Air Volume (Liters)	Fbrs Flds	LOQ	Fibers/cc
0124-01	Field Blank												
0124-02	Field Blank										Ave. =		
0124-03	P	Jose Aguilar 456-99-8866	PREP	0810	1600	470	1.5	1.5	1.5	705	9/100	0069	0.0062
0124-04	P	Juan Gomez 463-97-0236	PREP	0810	1600	470	1.5	1.5	1.5	705	6/100	0069	0.0041
	Blind Recount												

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # 865827.0301

Client	Project Contact:	Location:	Sample Collection by
WR Grace Portland OR	Bob Morrison	2335 N. Harding	Jim Stout PCM Analyst: Jim Stout

Date	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter:	TEM Filter:
1-25-00	Orifice Gilibrator # ____ Calibrated Rotometer # ✓	✓ 385 mm² mm²	✓ 0.00783 mm² mm²	✓ 0.8um 25 mm MA ____ 0.8um 37 mm Lot#	____ MCE ____ <0.45um 25mm MA ____ PC <0.45um 37mm Lot#

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Stop	Total Minutes	Flow Rate (LM): Start	Stop	Average	Air Volume (Liters)	Fibers Fld	LOQ	Fiberwcc
01-25-01	Field Blank												
0125-02	Field Blank										Ave =		
0125 03	P	Isabel Herrera 465-71-4753	Prep	0730	1530	480	1.5	1.5	1.5	720	15/100	0068	0.0102
0125 04	P	Roberto Amancio 631-56-3563	Prep	0730	1530	480	1.5	1.5	1.5	720	12/100	0068	0.0081
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # 865827-0301

Client	Project Contact:	Location:	Sample Collection by
WR GRACE	Bob MARRIN	2305 N HARDING	Jim STOUT PCM Analyst: Jim STOUT

Date	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter:	TEM Filter:
1-26-01	Orifice Gilibrator # ____ Calibrated Rotometer # ✓	385 mm² mm²	0.00785 mm² mm²	0.8um 25 mm MA ____ 0.8um 37 mm LOW	MCE ____ <0.45um 25mm MA ____ PC <0.45um 37mm LOW

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Time: Stop	Total Minutes	Flow Rate (L/M): Start	Flow Rate: Stop	Flow Rate: Average	Air Volume (Liters)	Fibers/Flds	LOQ	Fibers/cc
0126-01	Field Blank												
0126-02	Field Blank										Ave =		
0126-03	P	JUAN GOMEZ 463-97-0236	PREP	0730	1600	510	1.5	1.5	1.5	765	10/100	0.064	0.0064
0126-04	P	EDUARDO MOLINA 585-73-8867	PREP	0730	1600	510	1.5	1.5	1.5	765	9/100	0.064	<LOQ
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

(PLEASE PRINT NEATLY)

CHARGE # 805827.0201

Client:	Project Contact:	Location:	Sample Collection by
WR GRACE	Bob Murrian	2335 N. Harding	Jim Stout PCM Analyst: Jim Stout

Date	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter:	TEM Filter:
1/30/01	Gilian Gilibrator # ____ Calibrated Rotometer # ✓	✓ 385 mm² ____ mm²	✓ 0.00785 mm² ____ mm²	✓ 0.8um 25 mm MA ____ 0.8um 37 mm LOW	____ MCE ____ <0.45um 25mm MA ____ PC <0.45um 37mm LOW

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock) Start	Stop	Total Minutes	Flow Rate (LM) Start	Stop	Average	Air Volume (Liters)	Fibers Flds	LOQ	Fiberscc
0630-01	Field Blank												
0630-02	Field Blank										Ave =		
0630-03	P	Rob Amancio 631-56-2563	Rem	0720	1500	460	1.5	1.5	1.5	690	5/100	0071	<LOQ
0630-04	P	Miguel Eduardo 585-73-8867	Rem	0720	1500	460	1.5	1.5	1.5	690	6/100	0071	<LOQ
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY: REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

URS

DAILY AIR SAMPLING

CHARGE # _____

(PLEASE PRINT NEATLY)

Client	Project Contact:	Location:	Sample Collection by
WR GRACE	Bob Marrin	2335 N. Harding	Jim Stout PCM Analyst: Jim Stout

Date	Means of Pump Calibration:	Filter ECA	Microscope Field Area:	PCM Filter:	TEM Filter:
1/31/01	Orifice Gilibrator # ____ Calibrated Rotometer # ✓	✓ 385 mm² ____ mm²	✓ 0.00785 mm² ____ mm²	✓ 0.8um 25 mm MA ____ 0.8um 37 mm LOW	____ MCE ____ <0.45um 25mm MA ____ PC <0.45um 37mm LOW

Sample # / Pump #	Type	Sample Description: Location	Activity	Time (24 hour clock): Start	Time (24 hour clock): Stop	Total Minutes	Flow Rate (L/M): Start	Flow Rate (L/M): Stop	Flow Rate (L/M): Average	Air Volume (Liters)	Fibers Fld	LOQ	Fiber/cc
0131-01	Field Blank												
0131-02	Field Blank										Ave =		
0131-03	P	Juan Gomez 463-97-0231	Run	0730	1300	360	1.5	1.5	1.5	540	4/100	0090	<LOQ
0131-04	P	Isabel Herreras 465-71-4053	Run	0730	1300	360	1.5	1.5	1.5	540	2/100	0090	<LOQ
		Blind Recount											

Please use reverse side of form for sampling location map.

Please fill out CHAIN OF CUSTODY on the reverse side of form if sending samples to the laboratory.

Key to abbreviations:
SAMPLE TYPE: P=personal; IWA=inside work area; OSWA=outside work area
HEX=HEPA exhaust; CL=clearance; B=backgroung
ACTIVITY REM=removal; CU=clean up; GB=glovebag; B/O=bag out; PREP=work site preparation

APPENDIX J

APPENDIX J

PRE-INSPECTION AND FINAL CLEARANCE LOGS

URS

PRE-ABATEMENT INSPECTION

CHARGE # 805827.01

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARDING	TIM GISIT
Date	**Time:**	**Contractor Foreman (Name/Company)**	**Work Area.**
10 JAN 01	1300	JOHN SIMPSON AC-S	1

Inspection ☑ First Inspection ☐ Reinspection

Inspection Items.	Pass	Fail
1 Proper containment and critical barriers	✓	
2 Adequate negative air and filtration 4 AIR SCRUBBERS	✓	
3 Decontamination unit REMOTE	✓	
4 Water filtration unit	✓	
5 Waste load-out area	N/A	
6 Electrical supply and GFI's	✓	
7 HVAC system shutdown and isolated (including duct work)	✓	
8 Danger Warning signs	✓	
9 Containment smoke tube check	N/A	
10 Manometer reading	N/A	
11 View ports (12" x 12")	N/A	

☑ The work area has been properly prepared as an asbestos abatement containment site and abatement work may proceed.

☐ Abatement work will not proceed until the following discrepancies are corrected: _____

Contractor's Foreman or Representative: JOHN SIMPSON (Print Name) [signature] (Signature)

D&M Representative: TIM GISIT (Print Name) [signature] (Signature)

URS

PRE-ENCAPSULATION INSPECTION

CHARGE # 805927.01

(PLEASE PRINT NEATLY)

Client:	Project Contact:	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARDING	TIM GISH
Date	**Time**	**Contractor Foreman (Name/Company)**	**Work Area**
19JAN01	1300	JOHN SIMPSON AC.S	1

Inspection ☒ First Inspection ☐ Reinspection

Contractor Certification of Inspection

In accordance with Section _____ of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.), and has found no dust or debris.

Contractor's Foreman or Representative: JOHN SIMPSON (Print Name) _____ (Signature)

D&M Representative's Certification of Visual Inspection

1 ✓ No visible debris on walls and floors.
2 ✓ No visible debris between deck and beams.
3 ✓ No visible debris behind perimeter columns.
4 ✓ No visible debris on top of ducts.
5 ✓ No visible debris on hangers, rods, lights
6 ✓ No visible debris on surfaces covered by poly
7 ✓ No visible debris on pipes
8. ✓ All bags of waste removed from work area.
9. ✓ All equipment clean, including underside of negative air units
10 ✓ Negative air pressure differential ≤ 0.02 inches of water
11 ✓ Airless spray equipment used for encapsulation.
12 ✓ The area suitable for encapsulation

Proceed with encapsulation ☑ Yes ☐ No

Comments NO VISIBLE DUST OR DEBRIS

D&M Representative TIM GISH (Print Name) _____ (Signature)

URS

PRE-CLEARANCE INSPECTION

CHARGE # 805827.01

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARDING	TIM GISH
Date	**Time**	**Contractor Foreman (Name/Company)**	**Work Area**
1-20-01	0700	JOHN SIMPSON ACS	#1

Inspection ☑ First Inspection ☐ Reinspection

Contractor Certification of Inspection

In accordance with Section _____ of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc), and has found no dust or debris

Contractor's Foreman or Representative: JOHN SIMPSON (Print Name) _____ (Signature)

D&M Representative's Certification of Visual Inspection

☑ Pass ☐ Fail

Comments

NO VISIBLE DUST OR DEBRIS

NOT A FULL CONTAINMENT

D&M Representative: TIM GISH (Print Name) _____ (Signature)

URS

FINAL CLEARANCE
Phase Contrast Microscopy
(PLEASE PRINT NEATLY)

CHARGE # 805827.01

Client: WR GRACE
Contractor: AC·S
D&M Representative: Tim Gish

Project Location: 2335 N. HARDING PORTLAND OR
Work Area: #1
Aggresive Sampling: X Yes ____ No (If No, explain why.)

Sample #'s: 0120-03, 04, 05, 06, 07
Sample Results: .004 .004 .003 .004 .002
Average: .004 f/cc
95% Upper Confidence Level: ____ f/cc

Final Clearance Samples

- [x] Passed clearance standards
- [ ] Failed clearance standards

Clearance Standards

- [ ] As stated in specification section ____ . ____ f/cc
- [ ] Failed clearance standards
- [ ] As per CDOH Regulation #8 Clearance Standard
- [ ] All clearance samples to be less than background samles
- [x] Other (list) .01 f/cc

Samples were analyzed utilizing the NIOSH 7400 Method as reference.

Comments (Comments must be made regarding any situations where less than five samples were collected Keep in mind AHERA regulations require five samples regardless of the situation and CDOH Regulations require aggressive techniques) ____

URS

PRE-ABATEMENT INSPECTION

CHARGE # 805827.01

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARING	TIM GISH
Date	**Time:**	**Contractor Foreman (Name/Company)**	**Work Area**
11 JAN 01	1000	JOHN SIMPSON AC.S	1A

Inspection ☑ First Inspection ☐ Reinspection

Inspection Items	Pass	Fail
1 Proper containment and critical barriers	✓	
2 Adequate negative air and filtration 1 NAM	✓	
3 Decontamination unit RRMOTE	✓	
4 Water filtration unit	✓	
5 Waste load-out area	N/A	
6 Electrical supply and GFI's	✓	
7 HVAC system shutdown and isolated (including duct work)	N/A	
8 Danger Warning signs	✓	
9 Containment smoke tube check	✓	
10 Manometer reading	N/A	
11 View ports (12" x 12")	N/A	

☑ The work area has been properly prepared as an asbestos abatement containment site and abatement work may proceed.

☐ Abatement work will not proceed until the following discrepancies are corrected: _____

(*) Min. Containment REMOVAL OF < 12# SPRAY-ON INSULATION 1 NAM

Contractor's Foreman or Representative: JOHN SIMPSON (Print Name) _____ (Signature)

D&M Representative: TIM GISH (Print Name) _____ (Signature)

URS

PRE-ENCAPSULATION INSPECTION

CHARGE # 805827.01

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N HARDING	TIM GISH
Date	**Time**	**Contractor Foreman (Name/Company)**	**Work Area**
11 JAN 01	1700	JOHN SIMPSON AC-S	1A

Inspection ☑ First Inspection ☐ Reinspection

Contractor Certification of Inspection

In accordance with Section _____ of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.), and has found no dust or debris.

Contractor's Foreman or Representative: JOHN SIMPSON (Print Name) _____ (Signature)

D&M Representative's Certification of Visual Inspection * SECONDARY CONTAINMENT 1 DAM

1. ✓ No visible debris on walls and floors
2. ✓ No visible debris between deck and beams
3. ✓ No visible debris behind perimeter columns
4. ✓ No visible debris on top of ducts
5. ✓ No visible debris on hangers, rods, lights
6. ✓ No visible debris on surfaces covered by poly
7. ___ No visible debris on pipes
8. ___ All bags of waste removed from work area
9. ___ All equipment clean, including underside of negative air units
10. ___ Negative air pressure differential ≤ 0.02 inches of water
11. ___ Airless spray equipment used for encapsulation
12. ___ The area suitable for encapsulation

N/A

Proceed with encapsulation ☑ Yes ☐ No

Comments NO VISIBLE DUST OR DEBRIS

D&M Representative TIM GISH (Print Name) _____ (Signature)

URS

PRE-CLEARANCE INSPECTION

CHARGE # 805827.01

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARDING	TIM GUSH
Date	**Time**	**Contractor Foreman (Name/Company)**	**Work Area**
12 JAN 01	0945	JOHN SIMPSON	1A

Inspection ☑ First Inspection ☐ Reinspection

Contractor Certification of Inspection

In accordance with Section _____ of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.), and has found no dust or debris

Contractor's Foreman or Representative: JOHN SIMPSON (Print Name) _____ (Signature)

D&M Representative's Certification of Visual Inspection

☑ Pass ☐ Fail

Comments

NO VISIBLE DUST OR DEBRIS

& SECONDARY CONTAINMENT

D&M Representative: TIM GUSH (Print Name) _____ (Signature)

URS

FINAL CLEARANCE
Phase Contrast Microscopy
(PLEASE PRINT NEATLY)

CHARGE # 805827.01

Client: WR GRACE
Contractor: AC·S
D&M Representative: Tim Gish

Project Location: 2335 N. HARDING PORTLAND OR
Work Area: 1A SECONDARY CONTAINMENT 1st FL
Aggresive Sampling: ☒ Yes ____ No (If No, explain why.)

Sample #'s: 0112-05, 06, 07
Sample Results: .004 .003 .004
Average: .004 f/cc
95% Upper Confidence Level ____ f/cc

Final Clearance Samples

☑ Passed clearance standards

☐ Failed clearance standards

Clearance Standards

☐ As stated in specification section ____ ; ____ f/cc

☐ Failed clearance standards

☐ As per CDOH Regulation #8 Clearance Standard

☐ All clearance samples to be less than background samles

☑ Other (list) .01 f/cc

Samples were analyzed utilizing the NIOSH 7400 Method as reference.

Comments (Comments must be made regarding any situations where less than five samples were collected. Keep in mind AHERA regulations require five samples regardless of the situation and CDOH Regulations require aggressive techniques.)

SECONDARY CONT. < 12# MATERIAL REMOVED

URS

PRE-ABATEMENT INSPECTION

CHARGE # 805827.0341

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	URS ~~D&M~~ Representative
WR Grace Portland	Bob Marrion	2335 N. Harding	Jim Stout
Date	**Time**	**Contractor Foreman (Name/Company)**	**Work Area**
1/27/01	1600	ACES John Simpson	Dancer FL

Inspection ☑ First Inspection ☐ Reinspection

Inspection Items

		Pass	Fail
1	Proper containment and critical barriers	✓	
2	Adequate negative air and filtration	✓	
3	Decontamination unit	✓	
4	Water filtration unit	✓	
5	Waste load-out area	✓	
6	Electrical supply and GFI's	✓	
7	HVAC system shutdown and isolated (including duct work)	✓	
8	Danger Warning signs	N/A	
9	Containment smoke tube check	✓	
10	Manometer reading	✓	
11	View ports (12" x 12")	.025	
		✓	

☑ The work area has been properly prepared as an asbestos abatement containment site and abatement work may proceed.

☐ Abatement work will not proceed until the following discrepancies are corrected: _____

Contractor's Foreman or Representative: John Simpson (Print Name) _____ (Signature)

D&M Representative: Jim Stout (Print Name) _____ (Signature)

URS

PRE-ENCAPSULATION INSPECTION

CHARGE # 805827-01

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N HARDING PORTLAND OR	TIM GISH
Date	**Time:**	**Contractor Foreman (Name/Company)**	**Work Area**
2-2-01	1200	JOE WOOD	WA #2

Inspection ☒ First Inspection ☐ Reinspection

Contractor Certification of Inspection

In accordance with Section _____ of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.), and has found no dust or debris

Contractor's Foreman or Representative: JOE WOOD (Print Name) X [signature] (Signature)

D&M Representative's Certification of Visual Inspection

1. ___ No visible debris on walls and floors.
2. ___ No visible debris between deck and beams.
3. ___ No visible debris behind perimeter columns.
4. ___ No visible debris on top of ducts.
5. ___ No visible debris on hangers, rods, lights.
6. ___ No visible debris on surfaces covered by poly
7. ___ No visible debris on pipes
8. ___ All bags of waste removed from work area.
9. ___ All equipment clean, including underside of negative air units
10. ___ Negative air pressure differential ≤ 0.02 inches of water.
11. ___ Airless spray equipment used for encapsulation.
12. ___ The area suitable for encapsulation.

Proceed with encapsulation ☐ Yes ☒ No

Comments: RECLEAN ABOVE OFFICE AREA AND EXPANSION BRACES

D&M Representative: TIM GISH (Print Name) [signature] (Signature)

URS

PRE-ENCAPSULATION INSPECTION

CHARGE # 805827.01

(PLEASE PRINT NEATLY)

Client:	Project Contact:	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARDING PORTLAND OR	TIM GISH
Date	**Time:**	**Contractor Foreman (Name/Company)**	**Work Area**
2-3-01	1430	JOE WOOD AC.S	WA#2 NW CORNER WAREHOUSE

Inspection: ☐ First Inspection ☒ Reinspection

Contractor Certification of Inspection

In accordance with Section N/A of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc), and has found no dust or debris

Contractor s Foreman or Representative: JOSEPH WOOD (Print Name) X Joseph Wood (Signature)

D&M Representative's Certification of Visual Inspection

1 ✓ No visible debris on walls and floors
2 ✓ No visible debris between deck and beams.
3 ✓ No visible debris behind perimeter columns.
4 ✓ No visible debris on top of ducts.
5 ✓ No visible debris on hangers, rods, lights
6 ✓ No visible debris on surfaces covered by poly
7 ✓ No visible debris on pipes
8 ✓ All bags of waste removed from work area.
9 ✓ All equipment clean, including underside of negative air units
NA 10 ~~Negative air pressure differential ≤ 0.02 inches of water.~~
11 ✓ Airless spray equipment used for encapsulation.
12 ✓ The area suitable for encapsulation.

Proceed with encapsulation: ☒ Yes ☐ No

Comments

D&M Representative: TIM GISH (Print Name) (Signature)

URS

PRE-CLEARANCE INSPECTION

CHARGE #: _____

(PLEASE PRINT NEATLY)

Client	Project Contact	Location	D&M Representative
WR GRACE	BOB MARRIAM	2335 N. HARDING PORTLAND OR	TIM GISH
Date	**Time**	**Contractor Foreman (Name/Company)**	**Work Area**
2/5/01	0730	JOE WOOD AC.S	WA#2 NW CORNER OF WAREHOUSE

Inspection: [X] First Inspection [ ] Reinspection

Contractor Certification of Inspection TRG

In accordance with Section N/A of the project specifications, the Contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces, including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.), and has found no dust or debris

Contractor's Foreman or Representative: JOSEPH WOOD (Print Name) _____ (Signature)

D&M Representative's Certification of Visual Inspection

[✓] Pass TRG [ ] Fail

Comments

D&M Representative: TIM GISH (Print Name) _____ (Signature)

URS

FINAL CLEARANCE
Phase Contrast Microscopy
(PLEASE PRINT NEATLY)

CHARGE # 805827.01

Client: W.R. GRACE
Contractor: A.C.S
D&M Representative: Tim GISH

Project Location: 2335 N. HARDING PORTLAND OR
Work Area: WA#2 NW CORNER WAREHOUSE
Aggresive Sampling: X Yes ____ No (If No, explain why.)

Sample #'s: 0205-02, 03, 04, 05, 06, 07
Sample Results: <.002, <.002, <.002, <.002, <.002, <.002
Average: <.002 f/cc
95% Upper Confidence Level ____ f/cc

Final Clearance Samples

- [x] Passed clearance standards
- [ ] Failed clearance standards

Clearance Standards

- [ ] As stated in specification section ____ , ____ f/cc
- [ ] Failed clearance standards
- [ ] As per CDOH Regulation #8 Clearance Standard
- [ ] All clearance samples to be less than background samles
- [x] Other (list) .01 f/cc

Samples were analyzed utilizing the NIOSH 7400 Method as reference

Comments (Comments must be made regarding any situations where less than five samples were collected Keep in mind AHERA regulations require five samples regardless of the situation and CDOH Regulations require aggressive techniques) ____

APPENDIX K

APPENDIX K

ACandS SITE LOG

ACandS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office 303-940-9700 Fax 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-09-02	1720773	W.R GRACE - PORTLAND OR.

TIME	OBSERVATION
7:00AM	ARRIVE AT SITE - SAFETY MEETING (SCAFFOLD) - HAVE
	CREW BEGIN INSTALLING CRITICALS ON SOUTH EAST
	PORTION OF BUILDING - I BEGIN LOCATING LIFTS
	FOR PROJECT
9:15a.	NEFF RENTAL DELIVERS SCISSOR LIFT - CANNOT GET UP
	LOADING DOCK DUE to TYPE OF DELIVERY TRUCK - WILL
	WAIT FOR HERTZ TO DELIVER 2ND LIFT to SEE IF
	THEY CAN LIFT NEFF LIFT
(8:30a)*	BOB MARRION OF WR GRACE ARRIVES ON SITE
12:00N.	LUNCH
4:00p	HERTZ DELIVERS LIFT - PLACES NEFF LIFT
	IN BUILDING
	I CALL PHONE CO. ARRANGE FOR PHONE SERVICE
	TO BE INSTALLED ON FRIDAY.
	1 MAN PREPARING SHOWER FOR DECONTAMINATION.
5:30p	- LIFTS ARE OUT ON CHARGE - AREA CLEANED UP
	SHIFT OVER -
	- TOTAL MHs - 60

FOREMAN	SUPERVISOR

APRIL-99

ACandS

DAILY LOG

8141 W I-70 Frontage Rd No, Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-10-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	ARRIVE ON SITE - SAFETY MEETING - BEGIN CRITICALS ON LARGE
	LOVERED VENTS IN 40' HIGH SECTION OF BUILDING - MEN
	ARE ON LIFTS & TIED OFF W/HARNESS — BOB MORRION OF
	GRACE IS ON SITE — WE ARE HAVING ELECT PROBLEMS
	JOE to CONNECT GFI PANEL
11:00AM	GFI PANEL CONNECTION COMPLETE - 'OK' JOE ORDERS 3
	MORE HEPA VACS to BE HERE to MORROW.
1:30pm	VENTS ARE COMPLETE - ALL CRITICALS ARE COMPLETE
	TIM GISH (URS) GIVES APPROVAL to BEGIN HEPA
	CLEANING * HIGH BEAMS INDICATE LARGE QUANTITIES
	OF DUST & RESIDUAL to BE CLEANED.
3:00pm	- AREA IS DIRTIER THAN EXPECTED - CORRIGATED STEEL
	WALLS HAVE to BE HEPA-VACCED (VERTICAL SURFACE)
5:00pm	TAKE PICTURES OF HIGH AREA (CORRIGATED
	STEEL & BEAMS) MAY HAVE to POWERWASH
	MEN HAVE BEEN HEPA VACUUMING FOR 3 HOURS
5:30p	- SHIFT COMPLETED
	- TOTAL MHS — 60

FOREMAN	SUPERVISOR
	John Simpson

APRIL-99

ACaMIS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-11-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00am	SAFETY MEETING
	SHIFT BEGINS - 2 MEN HEPA VACUUMING FROM
	SCISSOR LIFT - 1 MAN FROM OVER/UNDER VACUUMING
	ABOVE LOADING DOCK
	2 MEN PREPPING SECONDARY CONTAINMENT FOR
	REMOVAL OF FIREPROOFING TEST PATCHES
9:00am	SECONDARY CONTAINMENT PREPPED - 3 MEN ENTER
	TO START REMOVAL
4:30p	LOOKOUT - INSPECT CONTAINMENT - O.K. ENCAP
*	CHECKED POWER WASHER - LEAKED BADLY
	INTERCHANGED PARTS - WORKS FINE NOW!
*	SPOKE WITH KEVIN McCRANN CONCERNING
	ENGINEERING CONTROLS FOR POWER WASHING.
	HE SAID EVERYTHING WAS OK TO START.
	(CRITICALS - AIR SCRUBBERS)
*	BOB MORRISON HAS BEEN ADVISED OF POWER
	WASHING.
*	WENT TO OSHA & DEPT. OF LABOR to PICK-UP
	POSTINGS.
5:30 -	ENCAP. MWI CONTAINMENT - CLEARANCE
	tomorrow - 2 MEN VAC. IN CORNER
	DID NOT FINISH MUCH TO SLOW!!!
	SHIFT COMPLETE

FOREMAN	SUPERVISOR
	JOHN SIMPSON

APRIL-99

ACandS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office 303-940-9700 Fax 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-12-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00am	SAFETY MEETING - LADDER SAFETY
	PUT ALL 5 MEN IN CORNER OF CONTAINMENT
	TO COMPLETE IT. - 2 MEN YESTERDAY WAS
	MUCH TO SLOW IN THAT AREA.
*	WAITING FOR ARRIVAL OF CASSETTES TO URS
	TO RUN CLEARANCE IN MINI CONTAINMENT.
8:30am	PUT 4 MEN ON TOP OF OFFICES
9:45am	START CLEARANCES IN MINI-CONTAINMENT
12:00n.	LUNCH - 30 MIN. FROM COMPLETION OF OFFICES
1:30	CAUGHT BY TRAIN - COST 1½ HR - COULD NOT GET
	TO SITE - PUT 2 MEN ON OFFICES TO COMPLETE
3:00p	OFFICES COMPLETE - ALL MEN ARE CONCENTRATING
	IN MAIN AREA - (VACUUMING)
5:30p	SHIFT COMPLETE
*	PHONE LINE WAS TO BE CONNECTED TODAY
	DID NOT SHOW-UP - I BELIEVE - TO BE
	RESCHEDULED FOR MONDAY FROM NOON - 5:00pm
	PASSED OUT PAY ROLL

FOREMAN	SUPERVISOR

APRIL-99

ACANDS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
1-13-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING - GLOVES, HARDHATS, SAFETY GLASSES
	START UP WHERE WE LEFT OFF YESTERDAY.
	VEGA VACUUMING MAIN AREA (5-MEN)
5:30 -	ALL VACUUMING IS COMPLETE ON MAIN FLOOR
	IN EXCEPTION OF POWER WASH AREA
	MUCH MORE CONSIDERABLY FASTER TODAY.

FOREMAN	SUPERVISOR

APRIL-99

ARDS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-15-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00 A	SAFETY MEETING - ELECTRIC SAFETY
	STORE SHIFT - 2 MEN CLEANING BASEMENT
	(HANG CRITICAL) 3 MEN CLEANING (PRE) BEAMS IN AREA
	TO BE POWER WASHED
7:30	MEET WITH SHEETMETAL FABRICATOR FOR DESIGN OF
	VACUUM WATER RECOVERY PAN - HE WILL COMPLETE
	THE AFTERNOON FOR PICKUP
10:00 A	PICKUP VAC HEAD FOR DRUMS, DRUM DOLLIES, + 2 DRUMS
NOON - 1	LUNCH
2:30 P	COMPLETED BASEMENT - WASH DOWN FLOOR &
	VACUUMED WATER
2:35 P	PICKUP VACUUM WATER RECOVERY PAN FROM
	SHEET METAL FABRICATOR
5:30 P	POWER WASH AREA IS 50% PRECLEANED.
	THERE ARE 6 AFD'S HOOKED UP & RUNNING.
	IN AREA.
	SHIFT COMPLETE.

FOREMAN	SUPERVISOR

APRIL-99

ACandS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-16-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING -
	CREW IS CONTINUING PRE CLEAN OF POWERWASH
	AREA - PUSHING TO START POWERWASH AT
	LUNCH
12:00 -	LUNCH
1:00p -	WE WERE GOING TO PREP ONE SIDE OF CONTAINMENT
	TO PREVENT WATER FROM SEEPING INTO ADJACENT
	AREA - AFTER FURTHER CONSIDERATION I
	DECIDED TO PREP 3 SIDES FOR SAFETY.
	THE DUST ACCUMMULATION IS CONSIDERABLE
	ON THE BEAMS & IS TAKING LONGER THAN
	EXPECTED TO REMOVE. - MEN ARE WORKING
	HARD, BUT IT JUST TAKES TIME!
	SAVE MEASUREMENTS TO DATE OF ENTIRE
	WORK AREA - TOP - 7865 □
	BASEMENT - 1300 □ TOTAL 9165 □
	ORIGINAL SCOPE 4067 □
5:30p -	END OF SHIFT - START PAINT WASHING
	TOMORROW

FOREMAN	SUPERVISOR

APRIL-99

ACMS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-17-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00 Am	SAFETY MEETING
	FINAL VACUUMING OF ROOF BEAMS - PRE PARE POWER WASHERS
8:30 AM	START POWER WASHERS - (2) FLOOR VACUUM SYSTEM
	IN PLACE.
*	SEVERAL POWER WASHER HOSES HAVE HOLES IN
	THEM.
11:30 A	POWER WASHING GOING PRETTY WELL - WILL HAVE
	TO VACUUM WATER FROM SOME BEAMS IN
	LOW POINTS + WET WIPE.
12-1 pm	LUNCH
1 pm	CONTINUE POWER WASHING
2:30 pm	POWER WASHING IS COMPLETE - BEGIN
	VACUUMING OF BEAMS
4:00 pm -	DELIVERED PACK to FED-X FOR ARVADA
*	PHONE MAN FINALLY ARRIVED - CONNECTED
	FAX LINE
**	INLINE DELIVERY DRIVER GOT LOST +
	DIDNOT DELIVER ENCAP - HOPEFULLY
	TOMORROW
5:30 p -	SHIFT COMPLETE!

FOREMAN	SUPERVISOR

APRIL-99

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-18-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING
	CREW IS REMOVING WATER FROM & WIPING UPPER STEEL
	BEAMS — BEGIN CLEANING FLOOR IN REAR
	OF WORK AREA.
11:00AM	COMPLETED WATER REMOVAL FROM BEAMS - ALL WORKERS
	ARE CLEANING FLOOR + EQUIPMENT.
12:00-1:00	LUNCH
1:10P -	ENCAPSULATION SHIPMENT ARRIVES
-	CONTINUE FLOOR CLEANING + EQUIPMENT CLEANING
-	POWER WASH ROLL-UP DOOR.
5:30P	SHIFT COMPLETE - WILL BE READY FOR INSPECTION
	AND ENCAPSULATION BY 9:00 AM TOMORROW.

FOREMAN	SUPERVISOR

APRIL-99

ATandS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-19-01	1720773	WR GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING
-	CREW IS DOING FINAL DETAILING
-	I GO to RENTAL CTR FOR 2 AIRLESS
11:00AM -	TIM GISH (URS) CONDUCTS VISUAL INSPECTION
	FINDS FEW AREAS that NEEDS ATTENTION
12:01 - 1:00	LUNCH
1:00PM	SET-UP FOR ENCAPSULATION
5:00p	ENCAPSULATION COMPLETE - CLEAN AIRLESS
	FOR RETURN tomorrow
5:30p	SHIFT Complete
*	CLEARANCE SAMPLES to BE RAN
	Tomorrow
-	-

FOREMAN	SUPERVISOR

APRIL-99

ACanS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-20-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7.00 AM	SAFETY MEETING
	CREW ASSIST TIM GISH IN SETTING
	UP CLEARANCE SAMPLES
7:30 A	PUMPS ARE TURNED ON
	CREW BEGINS CLEANING EQUIP INCLUDING
	SCAFFOLD, VACUUMS, AIRLETS, POWERWASHER
	AND ALL MISC.
9:30 A	PUMPS ARE TURNED OFF - SAMPLES PULLED
	TIM GISH READS SAMPLES
10:00 AM	SAMPLES PASSED - MOST CONTAINMENT
	MEASURES TO BE REMOVED
4:00 pm	SHIFT COMPLETE - CREW LEAVES

FOREMAN	SUPERVISOR
	JIM SIMPSON

APRIL-99

ACBMS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-22-01	1720773	W.R. GRACE - N. NARDIN &

TIME	OBSERVATION
7:00A	SAFETY MEETING
	CREW DOING SOME POST-DETAIL CLEANUP OF CRACKS
	IN FLOOR OF S.W. WORK AREA
10:00AM	BEGIN PRE-CLEANING & WRAPPING ELECTRIC IN
	'BALLROOM' AREA.
12-1 pm	-LUNCH-
1:00pm	CONTINUE PRE-CLEAN
5:30p	SHIFT COMPLETE
*	WE WERE GIVEN OK TO STORE 'BALLROOM'
	AREA TODAY BY JIM STOUT.
	JOE WOOD WAS ONSITE ALL DAY

FOREMAN	SUPERVISOR

APRIL-99

ABMS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-23-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING
	CREW CONTINUES PRE-CLEANING OF BALLROOM
	AREA
*	JOE WEBB ON SITE TODAY
	CREW IS HEPA-VACUUMING FLOOR, WIPING & WRAPPING
	LIGHTS & JUNCTION BOXES, VACUUMING ALL AREAS
	TO BE COVERED BY POLY.
NOON	LUNCH
1:00p	JIM STOUT (URS) ARRIVES TO TECH JOB.
	CREW CONTINUES PRE CLEAN ACTIVITIES
5:30p	SHIFT COMPLETE - MORE PREP & PRE-CLEAN
	TOMORROW

FOREMAN	SUPERVISOR
	J. SIMPSON

APRIL-99

ACandS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-24-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00 AM	SAFETY MEETING
	CREW IS PRE CLEANING FLOOR - VACUUMING OFFICE AREAS
	KEITH OF AC&S VISITS SITE
10:30 AM.	FLOOR IS CLEANING - STILL WORKING ABOVE OFFICES
	+ INSTALLING PERIMETER CRITICAL SEALS
NOON	LUNCH
1:00 p	CONTINUE PREP + PRE CLEAN ABOVE OFFICES
	JOE WOOD CONNECTS 2nd GFCI DISTRIBUTION
	PANEL.
	DUST ABOVE OFFICES IS 'CAKED' to WOOD - WILL
	HAVE to WIRE BRUSH IT - TIME CONSUMING
	FLOOR POLY (10 MIL REINFORCED) IS DELIVERED
	to SITE.
5:30	SHIFT COMPLETE!

FOREMAN	SUPERVISOR
	J. W. Simpson

APRIL-99

ARAMIS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office 303-940-9700 Fax 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-25-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00 AM	SAFETY MEETING
	- CONTINUE CLEANING ABOVE OFFICES -
	- START POLY ON FLOORS -
NOON - 1	LUNCH
1:00 PM	- CRITICAL GARAGE DOORS FROM THE OUTSIDE
	CONTINUE CLEANING ABOVE OFFICES
	CONTINUE FLOOR PREP
5:00p	- OFFICES ARE COMPLETE & ISOLATED
	FROM MAIN AREA
5:30p	- SHIFT COMPLETE -
	TOMORROW - COMPLETE FLOORS
	- ERECT DECON
	- INSTALL AFD'S.
	- INSTALL REMAINING CRITICALS
-	-

FOREMAN	SUPERVISOR
	JOHN SIMPSON

APRIL-99

ACandS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
1-26-01	1720773	W.R. GRACE — N. HARDING

TIME	OBSERVATION
7:00 AM	SAFETY MEETING - LADDERS
	TODAYS SCOPE — COMPLETE POLY ON FLOOR
	— COMPLETE CRITICALS
	— INSTALL AFD'S
	— CONSTRUCT DECON
12-1:00p	LUNCH * HAD COOKOUT FOR CREW FOR GOOD
	SAFETY PRACTICES
1:00p —	TOOK JOE WOOD TO AIRPORT
5:30p-	SHIFT COMPLETE — PREP STILL INCOMPLETE
	WILL FINISH TOMORROW (SAT.)
	WILL START POWER WASH MONDAY AM

FOREMAN	SUPERVISOR

APRIL-99

ABMS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office 303-940-9700 Fax 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
1-27-00	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING
	TODAY SCOPE - COMPLETE DECON & ALL PREP
	ITEMS.
	ALL CRITICALS 100% ✓
	AFDS 100% ✓
	DECON 100% ✓
	FLOORS 100% ✓
	POWER WASHER HOOKED & TESTED ✓
	ALL SYSTEMS 'GO' - READY TO START
	POWER WASHING MONDAY A.M.!
5:00pm	SHIFT COMPLETE

FOREMAN	SUPERVISOR
	JOHN SIMPSON

APRIL-99

ACaMeS

DAILY LOG

8141 W I-70 Frontage Rd No., Unit 5, Arvada, CO 80002
Office 303-940-9700 Fax 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
1-29-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00 AM	SAFETY MEETING
	START POWER WASHING - 1ST THING this MORNING
	DISCONNECTED ALL HOUSE ELECTRIC IN WORK
	AREA!
7:30	START WASHING
	WASHER ARE TAKING OFF PAINT WITH DIRT
12-1 pm	LUNCH
1 pm	CONTINUE WASHING - WATER IS RECOVERED
	& FILTERED.
2:30p	I GO INTO CRAWLSPACE + TAKE MEASURE-
	MENTS
5:30	SHIFT COMPLETE - APPROX 1/3 OF AREA
	IS WASHED.

FOREMAN	SUPERVISOR
	J.W. SIMPSON

APRIL 99

AEGIS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
1-30-01	1720773	W.R. GRACE — N. HARDING

TIME	OBSERVATION
7:00 AM	SAFETY MEETING
	TODAYS SCOPE - CONTINUE POWER WASHING OF DECK
	& WALLS OF BALLROOM AREA. - 2 MEN WASHING
	2 MEN RECOVER WATER - 1 UTILITY MAN
12-1 pm	LUNCH
1 pm	CONTINUE WASHING
4:30 p	DECK SPRAY COMPLETED
	BEGIN CLEANING FLOOR. POWER WASH
	MANLIFTS
5:30 p	SHIFT COMPLETE
	TOMORROW FLOOR CLEANING + PULL
	FLOOR POLY.

FOREMAN	SUPERVISOR

APRIL-99

ABanks

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
01-31-01	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	SAFETY MEETING
	TODDY SCOPE - REMOVE & BAG FLOOR POLY
	POWER WASH FLOOR.
12-1:00p	LUNCH
2:40p	JIM STOUT DEPARTS FOR AIRPORT
3:00p	TIM GISH ARRIVE TO REPLACE JIM STOUT
4:30p	FLOOR IS COMPLETE - EQUIPMENT
	WASHED
	I CONDUCT VISUAL - EVERYTHING
	IS 'OK' FOR ENCAPSULATION
5:00p	SHIFT COMPLETE
	I WILL PICKUP JOE WOOD AT AIRPORT
	TONIGHT AT 11:00 pm.
	I LEAVE TOMORROW FOR LOUISVILLE AT
	10:55 AM.
	JIM STOUT STILL DOES NOT HAVE 'OK'
	TO START CRAWLSPACE -
	I HAVE NEGOTIATED WITH WMX FOR
	DISPOSAL

FOREMAN	SUPERVISOR

APRIL-99

ACOMAS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office 303-940-9700 Fax 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
2-01-01 (TWR)	1720773	W.R GRACE - N. HARDING

TIME	OBSERVATION
7:00am	CREW CONTINUE FINAL CLEANING IN WORK AREA #2 INCLUDING PULLING OF FLOOR POLY - CLEANING EQUIP & DETAILING ALL SURFACES JOE WOOD ON SITE TODAY
7:30	BOB MORION ADVISES TIM GISH THAT WE WILL NOT BE DOING CRAWL SPACE - IT IS NOT NECESSARY PER KEVIN McCRONN OF OEM.
5:30 p	CLEANING COMPLETE. WE WILL CONDUCT INTERCOMPANY VISUAL 1ST THING TOMORROW MORNING.

FOREMAN	SUPERVISOR

APRIL 99

ACCESS

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
2-02-01 (FRI.)	1720773	W. R. GRACE - N. HARDING

TIME	OBSERVATION
7:00AM	CREW BEGINS RECLEANING AREA AFTER I FAIL THEN ON VISUAL IN WORK AREA #2.
	JOE WOOD IS ON SITE TODAY
11:00	WE REQUEST TIM GISH TO CONDUCT A PRE-ENCAPSULATION VISUAL
	TIM FAIL VISUAL - HE IS BEING EXTRAORDINARILY TOUGH ON THIS AREA - HE REQUEST THAT WE RECLEAN RAFTERS (EXPANSION JOINTS) - RE VACUUM ABOVE OFFICES
1:30p	WE BEGIN RECLEANING
5:30p	SHIFT COMPLETE

FOREMAN	SUPERVISOR

APRIL-99

6141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DAILY LOG

DATE	PROJECT NO.	PROJECT NAME
2-3-01 (SAT)	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00	CREW BEGINS FINAL CLEANING OF AREAS THAT FAILED 1ST VISUAL INSPECTION.
	WORKING ABOVE OFFICES THAT HAD BEEN HEPA-VACUUMED BUT NOT POWER WASHED
3:00	REQUEST TIM CLIN TO REINSPECT - CHECKS RAFTERS + ABOVE OFFICES -
4:30	VISUAL PASSES - WE. ENCAPSULATE
7:00p	ENCAPSULATION COMPLETE - FINAL AIR CLEARANCE TOMORROW.

FOREMAN	SUPERVISOR

APRIL-99

DAILY LOG

8141 W. I-70 Frontage Rd. No., Unit 5, Arvada, CO 80002
Office: 303-940-9700 Fax: 303-940-9797

DATE	PROJECT NO.	PROJECT NAME
2-5-01 (MON)	1720773	W.R. GRACE - N. HARDING

TIME	OBSERVATION
7:00	CLEARANCE TESTING RAN TODAY
	TIM GISH SETS UP PUMPS
10:30	SAMPLES ARE COLLECTED & READ
11:30	TIM GISH NOTIFIES US that SAMPLES HAVE PASSED - BEGIN TEARDOWN OF CRITICALS & EQUIP.
	WORKERS HAVE BE CLEANING & ORGANIZING EQUIP. & MATERIALS FOR RETURN TO ARVADA
	WE NOTIFY RENTAL AGENCIES to PICKUP EQUIP. WED
5:30 SHIFT complete	

FOREMAN	SUPERVISOR

APRIL-99

APPENDIX L

APPENDIX L

URS PROJECT LOG

9 JAN 01 Project No.
2 Book No. 35301 TITLE WR GRACE PORTLAND OR.
TUES

From Page No.

0100 ARRIVE ON SITE. AC-S CREW ON SITE.
AC-S CONDUCTS DAILY SAFETY MTG.
0800 BOB MARRIAM ON SITE. AC-S PERSONNEL
BEGIN INSTALLING CRITICALS IN SW WORK AREA
ALL AC-S PERSONNEL IN LEVEL 'C' PPE.
W/ AIR SCRUBBERS IN OPERATION.
0915 NEFF DELIVERS SCISSOR LIFT TO SITE. UNABLE T
PLACE LIFT IN WORK AREA (NO RAMP) HERTZ T
DELIVER LIFT TOMORROW WILL TRY TO HAVE
THEM PLACE BOTH LIFTS IN WORK AREA
1200 AC-S BREAKS FOR LUNCH
1300 RESUME PREP OF WA#1 BOB MARRIAM ON SI
1600 HERTZ ARRIVES ON SITE. HERTZ IS ABLE
TO LOAD NEFF LIFT ON THEIR TRAILER AN
PLACE IN WA#1

To Page No

Witnessed & Understood by me,	Date	Invented by	Date
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TLE WR GRACE PORTLAND OR	Project No. _____ Book No. 35301	10 JAN 01 WED

Page No.

00 ARRIVE ON SITE AC.S TO CONTINUE PLACEMEN OF CRITICALS IN WA#1
AC.S CONDUCTS DAILY SAFETY MTG.
ALL AC.S PERSONNEL IN LEVEL 'C' PPE AND WEARING SAFETY HARNESS WHILE IN LIFTS.
BOB MARRIAN ON SITE.

45 GFI PANEL CONNECTED TO HOUSE POWER.
INSPECT HORIZONTAL BEAMS IN HIGH SECTION OF WORK AREA#. DUST IN BEAM TROUGHS IN EXCESS OF 3" THICK. AC.S WILL HAND SCOOP MOST OF DUST INTO 'A' BAGS BEFORE BEGIN POWERWASHING.

30 ALL CRITICALS IN PLACE PERFORM PRE ABATEMEN. VISUAL. AC.S CLEARED TO BEGIN HEPA VAC CLEAN IN WORK AREA#1 4 AIR SCRUBBERS IN OPERATION
AC.S BEGINS C/U ON NORTH SIDE WA#1

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Witnessed & Understood by me.	Date 10/1	Invented by	Date

Project No.

4 THR Book No. 35301 TITLE W R GRACE PORTLAND O

From Page No.

0700 ARRIVE ON SITE WITH AC.S CREW(S)
AC.S CONDUCTS DAILY SAFETY MTG. JOE WOOD IN DEN
0730 CONTINUE HEPA VAC CLEAN UP IN WA#1
BEGIN SETUP OF SECONDARY CONTAINMENT NEXT TO LOADING DOCK. APPROX 12 ☐ OF SPRAY-ON FIREPROOFING TO BE REMOVED FROM WALL.
ALL AC.S PERSONNEL IN LEVEL 'C' PPE.
1000 PREP COMPLETE ON SECONDARY CONTAINMENT. PERFORM PRE-ABATEMENT VISUAL, AC.S CLEARED TO BEGIN REMOVAL.
1200 AC.S BREAKS FOR LUNCH.
1300 AC.S CONTINUES HEPA VAC CLEAN UP IN WA#1 AND SPRAY ON REMOVAL.
1500 CONTACTED BY JOE WOOD. HE HAD TALKED WITH BOB M. AND INFORMED HIM THAT AC. WANTS TO POWERWASH ORIGINAL AREA RATHER THAN HEPA VAC. DUST ON WALLS AN ON ALL HORIZONTAL SURFACES TO BE CLEANE
1600 JOHN SIMPSON AND I TALK WITH KEVIN McCRANN ABOUT ANY ADDITIONAL ENGINEERING CONTROLS THA MAY BE NEEDED, HE IS OK WITH PRESENT SET UP. CRITICALS AND 4 AIR SCRUBBERS IN OPERATION.
1300 INFORMED BY J. SIMPSON THEY WILL NOT BEGIN ANY POWER WASHING UNTIL MON 1/15.
COLLECT AIR SAMPLES AC.S CLEARED TO ENCAP WA# 1A, WILL RUN CL SAMPLES 1/12

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Witnessed & Understood by me,	Date 11JAN01	Invented by	Date

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LE WR GRACE PORTLAND OR Book No. 35301

FRI

m Page No.— 4 AIR SCRUBBERS IN OPERATION.

0 ARRIVE ON SITE. AC·S CREW ON SITE, TO CONTINUE HEPA VAC CLEAN UP OF WA#1

AC·S CONDUCTS DAILY SAFETY MTG. (LADDER SAFETY)

945 SET CLEARANCE AIR SAMPLES IN SECONDARY CONTAINM.

00 INSPECT WORK IN PROGRESS WA#1

30 AC·S CREW BREAKS FOR LUNCH

230 RESUME HEPA VAC CLEAN WA#1

00 COLLECT AND ANALYZE CLEARANCE SAMPLES WA#1A

40 AC·S CLEARED TO TEARDOWN WA#1A.

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Witnessed & Understood by me,	Date	Invented by	Date

13 JAN 01 Book No. 35301 TITLE WR GRACE PORTLAND OR

rom Page No.__

ARRIVE ON SITE WITH AC·S CREW (6). AC·S TO CONTINUE HEPA VAC CLEAN IN S.W. CORNER WA#1
AC·S CONDUCTS DAILY SAFETY MTG.
ALL PERSONNEL IN LEVEL 'C' PPE.
4 NAM AIR SCRUBBERS IN OPERATION
AC·S TO CONTINUALLY KEEP AIR MISTED WITH WATER USING AIRLESS SPRAYER.
900 INSPECT AREAS THAT HAVE BEEN CLEANED. AC·S DOING A VERY GOOD JOB OF HEPA VACCING HORIZONTAL SURFACES THROUGHOUT WA#1
200 AC·S BREAKS FOR LUNCH.
:00 RESUME HEPA VAC CLEANUP OF WA#1
500 2 MEN BEGIN SET UP OF CRITICALS IN AREA TO BE POWER WASHED. EXPECT TO BEGIN PW ON 1/15 BEFORE NOON.
30 AC·S FINISHED FOR THE DAY ALL EQUIPMENT SECURED AIR SAMPLES COLLECTED. OFF SITE.

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itnessed & Understood by me,	Date	Invented by	Date
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TLE W.R. GRACE PORTLAND OR

Project No. _____ MON.

Book No. 35301 15JAN 01

om Page No.__

0 ARRIVE ON SITE, 6 man AC.S CREW ON SITE
AC.S BEGINS SETTING CRITICALS IN PLACE FOR POWER WASH OF High CEILING AREA IN WA#1
AC.S CONDUCTS DAILY SAFETY MTG.
2 MEN CLEANING IN BASEMENT

1730 J. Simpson OFF SITE TO ORDER VACCUUM WATER RECOVERY TO BE USED DURING POWER WASHING.

000 INSPECT WORK IN PROGRESS. BASEMENT EXPECTED TO BE COMPLETED BY MID AFTERNOON

200 AC.S BREAKS FOR LUNCH.

300 AC.S RESUMES WORK IN WA#1 - CLEANING IN BASEMENT AND Hanging CRITICALS IN High CEILING AREA.
HAND SCOOPING SETTLED DUST FROM BEAM TROUGHS

330 CONTACTED BY JIM STOUT w/ RESULTS FROM BULK SAMPLES TAKEN LAST WEEK - DOMED CEILING AREA. RESULTS NEGATIVE A1 - A5 STILL WAITING ON DANGER AREA RESULTS.

5 BASEMENT CLEANING FINISHED, INSPECT WORK LOOKS VERY GOOD.

700 AC.S CLEANING UP FOR THE DAY

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Witnessed & Understood by me,	Date	Invented by	Date
	15 JAN		

TUE
16 JAN 01

Project No.:

Book No 35301 TITLE WR GRACE PORTLAND OR

From Page No.__

0700 ARRIVE ON SITE, 6 MAN AC.S CREW ON SITE.
AC.S CONDUCTS DAILY SAFETY MTG
ALL AC.S PERSONNEL IN LEVEL C PPE
6 AIR SCRUBBERS IN OPERATION.
AC.S CONTINUES INSTALLATION OF CRITICALS IN HIGH CEILING AREA WA#1, EXPECT TO BEGIN POWER WASH AFTER LUNCH.

1000 INSPECT WORK IN PROGRESS WA#, CREW CONTINUES TO HAND SCOOP SETTLED DUST FROM TROUGHS OF STEEL BEAMS,

1200 AC.S BREAKS FOR LUNCH

1300 AC.S RESUMES WORK IN WA#1. INFORMED BY JOHN SIMPSON THAT THEY HAVE DECIDED TO HANG POLY BARRIER ON 3 SIDES OF POWER WASH AREA RATHER THAN ORIGINAL PLAN OF 1 SIDE.
AC.S WILL NOT BE READY TO BEGIN POWER WA UNTIL TOMORROW MORNING.

AC.S BEGINS CLEANING UP FOR THE DAY
COLLECT ALL AREA AND PERSONAL AIR SAMPLES.

730 BLDG AND ALL EQUIPMENT SECURED. AC.S CREW OFF SITE FOR THE DAY

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TITLE WR GRACE PORTLAND OR Project No. Book No. 35301 17 JAN 01

From Page No. 0665 CONTACTED BY BOB MARRIAM

0 ARRIVE ON SITE 6 MAN AC·S CREW ON SITE
AC·S CONDUCTS DAILY SAFETY MTG.
ALL AC·S PERSONNEL IN LEVEL 'C' PPE
4 AIR SCRUBBERS IN OPERATION

800 AC·S MAKING REPAIRS TO PRESSURE WASHER, EXPECT TO BEGIN PW SOON.

830 AC·S BEGINS POWERWASHING IN HIGH CEILING AREA ALL WATER IS TO BE FILTERED BEFORE DISPOSAL DOWN SANITARY DRAIN. (UTILITY SINK IN WA#)

030 CONTACTED BY JIM STOUT, INSTOCTED TO COLLECT 5 ADDITIONAL BULK SAMPLES FROM CRAWLSPACE AT LARGE PILE LOCATIONS AND SEND TO RTLEE FOR ANALYSIS.

1300 5 BULK SAMPLES DROPPED OF AT FEDEX.

1330 RETURN TO SITE POWER WASHING CONTINUES WA#

1700 AC·S FINISHED FOR THE DAY

1730 ALL EQUIPMENT AND BLDG SECURED OFF SITE.

To Page No.

Witnessed & Understood by me,	Date 17 JAN 01	Invented by	Date

THR
18 JAN 01

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Book No. 35301 TITLE WR GRACE PORTLAND, OR.

rom Page No.

:30 ARRIVE ON SITE 6 MAN AC·S CREW ON SITE.
AC·S CONDUCTS DAILY SAFETY MTG.
ALL AC·S PERSONNEL IN LEVEL 'C' PPE
4 AIR SCRUBBERS IN OPERATION.

:730 AC·S CONTINUES POWER WASH CLEAN UP IN WA#1
HEPA VAC WATER COLLECTED IN TROUGHS OF BEAMS

:00 AC·S CREW BEGINS FINAL CLEAN ON FLOORS IN WA
USING ZEP FLOOR SWEEP.

300 ENCAP DELIVERED TO SITE. (FIBERSET PM)
FINAL CLEAN CONTINUES WA#1

:400 CONTACTED BY JIM STOUT WITH RESULTS OF
BULK ANALYSIS, SAMPLES B-1 → B-3 ALL NEGATIVE
STILL WAITING FOR B-4 – B-6

730 AC·S CREW FINISHED FOR THE DAY.

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Witnessed & Understood by me.	Date 18 JAN 01	Invented by	Date

TITLE WR GRACE PORTLAND, OR Project No. Book No. 35301 FRI 19 JAN 01

From Page No.

00 ARRIVE ON SITE 6 man AC.S CREW ON SITE
AC.S CONDUCTS Daily SAFETY MTG.
ALL AC.S PERSONNEL IN LEVEL 'C' PPE
0730 CONTINUE FINAL CLEAN IN WA#1
0800 John Simpson OFF SITE TO RENTAL CENTER
TO PICK UP AIRLESS SPRAYERS FOR ENCAP.
1100 PERFORM VISUAL INSPECTION, SEVERAL AREAS IDENT
FOR ADDITIONAL CLEANING
1300 RE-INSPECT WA#1 AC.S CLEARED FOR ENC
AREA LOOKING VERY GOOD
AC.S BEGINS SETTING UP FOR ENCAP.
1700 ENCAPSULATION OF WA#1 COMPLETE.
WILL RUN CLEARANCE SAMPLES TOMORROW AM
1730 EQUIPMENT AND BLDG SECURED

(*) BOB BUTLER ON SITE THIS MORNING
AT ABOUT 930, inquires IF LETTER WILL
BE ISSUED DECLARING THE BLDG ASBESTOS FR
REFER HIM TO JIM STOUT

To Page No.

Witnessed & Understood by me,	Date 19 JAN 01	Invented by	Date

SAT
20 JAN 01

Project No.
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m Page No.__

ARRIVE ON SITE, BEGIN SETTING CLEARANCE SAMPLES IN WA# 1 6 man AC.S CREW ON SITE

730 CL SAMPLES SET WA# AC.S CREW CLEANING EQUIPMENT

735 BEGIN COLLECTING CL SAMPLES

00 WA# 1 SAMPLES ANALYZED, AREA CLEARED RESULTS GIVEN TO JOHN SIMPSON (AC.S) OFF SITE TO AIRPORT

To Page No.__

tnessed & Understood by me,	Date	Invented by	Date
	20 JAN 01		

Project No
Book No 34713

TITLE

From Page No. 1/23/01 JEB WR Grace Portland

0700 Arrived on Site. ACHS working installing Critical Barriers and Pre Cleaning - Workers are in full PPE.

1000 Set Background Samples in Area Referred to as The Dancer Floor. Visual Insp - ACHS Cont to Prep & Pre Clean

1130 Walked outside of Building -

1600 Removed Backgrounds Samples & Returned to Lab Area. Read

1700 Secured Site

To Pag

Witnessed & Understood by me.	Date	Invented by	Date

Project No
Book No. 37713 TITLE

From Page No 4/24/01 JES WR GRACE PORTLAND, ORG

0700 ARRIVED ON SITE - AC+S CONT TO PRE CLEAN + INSTALL CRITICALS

0710 SET PERSONAL PUMPS

1100 PICKED UP ~~ALAN~~ KEITH YWORELL (AC+S) AT AIRPORT - ALAN STRINGER DUE IN 1140 - ALAN CALLED HIS PLANE DELAYED ONE HOUR - RETURNED TO JOB SITE.

1300 PICKED UP ALAN STRINGER AT AIRPORT & RETURNED TO JOB SITE FOR TOUR WITH ALAN.

1530 REMOVED PERSONAL PUMPS - TOOK ALAN TO HOTEL + RETURNED TO READ SAMPLES

1700 SECURED SITE

To Page N

Witnessed & Understood by me	Date	Invented by	Date

Project No.
Book No. 34713

Page No. 1/25/11 JES WK GRACK PORTLAND OR

0700 ARRIVED ON SITE - AC+S CONT TO PRE CLEAN

0730 SET PERSONAL PUMPS

0900 LEFT SITE TO ATTEND COURT HEARING

1530 LEFT COURT RETURNED TO JOB SITE - REMOVED PERSONAL PUMPS & READ

1700 SECURED SITE

To Page No.

Project No. 31713
Book No. _____ TITLE _____

From Page No. 1/26/01 JES WR GRACE PORTLAND, OR

0700 ARRIVED AT SITE - AC+S CONT TO PRE CLEAN

0720 - SET PERSONAL PUMPS - CONDUCTED ISWA INSP - AC+S DOING A GOOD JOB OF PRE CLEANING + INSTALLING CRITICAL

1300 - AC+S CONT WORK ON PRE CLEAN IN AREA CALLED DARK FLOOR

1600 REMOVED PERSONAL PUMPS - RETURNED TO LAB AREA TO READ

1700 SECURED SITE

To Page No.

Witnessed & Understood by me,	Date	Invented by	Date

Project No.
Book No. 34713

Page No 1/27/01 JES WR GRACE PORTLAND ORG

0700 ARRIVED AT SITE - ACAS HAS COMPLETED PRE-CLEANING - PLAN FOR THIS DAY
1. INSTALL ALL NEG AIR
2. COMPLETE DECON
3. INSTALL WASTE LOAD OUT

NO AIR SAMPLES TODAY

1300 COMPLETE NEG AIR INSTALLATION .04. - NEED TO TURN OFF 3 MACHINES - READING .025

1600 PRE ABATEMENT INSP - PASSED

1700 SECURED SITE

To Page No.

ssed & Understood by me.	Date	Invented by	Date

Project No. 37713
Book No. TITLE

From Page No. 1/29/01 JES WR GRACE PORTLAND ORG

0700 ARRIVE ON SITE - ACES BEGINS GROSS REMOVAL - POWER WASHING DANCE FLOOR AREA - NEED TO VAC WATER FASTER - ACES COMPLETE - SET 3 PUMP OWA & 2 PA

1300 ACES CONT TO CLEAN - DOING A GOOD JOB OF PICKING UP WASTE & KEEPING WATER PICKED UP

1600 REMOVED ALL PUMPS (AREA + PERSONAL) RETURNED TO LAB AREA TO READ

1700 SECURED SITE

* NOTE - BUTLER BROKERS INC STOPPED AT SITE - CHECK ON PROGRESS

To Page

Witnessed & Understood by me.	Date	Invented by	Date

Page No. 1/30/01 JED WR GRACE PORTLAND, ORE

0710 ARRIVED AT SITE (TRAIN DELAY)

0730 SET PERSONAL PUMPS - AC+S CONT TO CLEAN DANCE FLOOR AREA & COLLECT WATER + WASTE

1100 INFORMED AC+S TOO MUCH WATER ON FLOOR - AC+S CORRECTED

1400 ENTERED WORK AREA - AC+S DOING A MUCH BETTER JOB OF COLLECTING WATER

1615 REMOVED PERSONAL SAMPLES - READ

1700 SECURED SITE

Witnessed & Understood by me.	Date	Invented by	Date

Project No. 37713
Book No. TITLE

From Page No. 1/31/01 JED WR GRACE PORTLAND OR

0730 ARRIVED ON SITE (TRAIN DELAY)

0730 SET PERSONAL PUMPS - ACES SHOULD COMPLETE GROSS REMOVAL TODAY

1030 ACES COMPLETE GROSS REMOVAL & STARTS CLEAN UP - WIPING ALL SURFACES

1330 REMOVED PERSONAL PUMPS - READ

1700 SECURED SITE

To Page No.

Witnessed & Understood by me,	Date	Invented by	Date

TLE W R GRACE PORTLAND OR

Project No.
Book No. 35301 31 JAN 01

om Page No.

0745 ARRIVE ON SITE N. HARDING 6 MAN ACS CREW ON SITE. JIM STOUT OFF SITE TO SEWER. JOHN SIMPSON SUPERVISOR ON SITE.

ACS FINISHING POWERWASH OPERATION IN BALLROOM AREA. WA#2

1700 ACS FINISHED FOR THE DAY

To Page No.

Witnessed & Understood by me,	Date	Invented by Jim Stout	Date

01 FEB 01 Project No. Book No. 35301 TITLE W.R. GRACE PORTLAND OR

om Page No.__

0700 on site AC.S to be final cleaning in ballroom area WA#2 5 man crew
AC.S personnel in Level 'C' PPE
Joe Wood supervisor on site J. Simpson off site to Ky.

0730 Contacted by Bob Marian informed that WR will not be cleaning crawlspace per Kevin McCrann

1300 Resume final cleaning in WA#2

To Page No.__

Witnessed & Understood by me, | Date 1 Feb 01 | Invented by Jim Fish | Date

TITLE W R GRACE PORTLAND OR

Project No.

Book No. 35301 02FE301

From Page No.

0730 ON SITE ACS CREW ON SITE CONTINUES FINAL CLEAN WAT#2

ACS LEVEL 'C' PPE JOE WOOD ON SITE.

1100 ACS CALLS FOR PRE FINCAP VISUAL INSPECTION

1200 AERA#2 FAILS VISUAL EXPANSION BRACES NEED WOR. ALONG NW WALL, ABOVE OFFICES.

1300 ACS RESUMES FINAL CLEAN WT#2

1730 ACS FINISHED FOR THE DAY.

To Page No

Witnessed & Understood by me, | Date FEB 01 | Invented by | Date

16 0730 SAT.

Project No.
Book No: 35301 TITLE W.R. GRACE PORTLAND OR

From Page No.

0730 ON SITE 6 MAN AC.S CREW ON SITE
CONTINUE FINAL CLEAN WITH
WORKING ABOVE OFFICES.

1300 AC.S CALLS FOR VISUAL INSPECTION.
REINSPECT RAFTERS AND AREA ABOVE OFFIC

1430 AC.S CLEARED TO ENCAP WATH

1700 AC.S FINISHED W/ ENCAP. WILL RUN
CLEARANCE SAMPLING ON MON 2/5

To Page N

Witnessed & Understood by me,	Date 3 FEB 01	Invented by	Date

MON

Project No.

TLE WR GRACE PORTLAND OR

Book No. 35301

om Page No.

0730 ON SITE.
SET CL SAMPLES WATER

1030 COLLECT AND READ CL SAMPLES.

1130 AC.S NOTIFIED THEY PASS FINAL CLEARANCE WE CLEARED TO TEARDOWN MATERIALS AND DECON.

To Page No.

Witnessed & Understood by me,	Date	Invented by	Date

TOTAL P.17

App J

ASN-4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE! If you have questions, contact the DEQ Asbestos Control Section located at 2020 SW 4th, Suite 400, Portland, Oregon 97201 or call (503) 229-5982, OR (800) 452-4011 for the phone number and location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: NORTH HARDING
2335 N. HARDING (Street) PORTLAND, OR (City/State) MULTNOMAH (County) 97227 (Zip)
Contact person JOE WOOD Phone: 503 888 3624

2. Operator's name and address: ALLEN STRINGER Phone: 406 293 3964
317 MINERAL AVE. (Street) LIBBY, MT (City/State) KOOTENIA (County) 59923 (Zip)

3. Waste disposal site: HILLSBORO LANDFILL, INC Phone: 503-640-9427
3205 SE Minter Bridge Rd. (Street) HILLSBORO, OR (City/State) WASHINGTON (County) 97123 (Zip)

4. Describe asbestos materials: WAREHOUSE DUST WITH 1½% TREMOLITE

5. Containers: BA Number: 375 Type: BDGS

6. Total quantity (cubic yards): 25 CU. YDS.

7. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately Described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to government regulations. All movement of this asbestos-Containing material is recorded on this Waste Shipment Record Form.
Name: JOSEPH WOOD Company: AC+S, INC.
Signature: [signature] Date: 2-8-01

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
Agent: WASTE MANAGEMENT OREGON Company: Same
Address: 3330 NE SKYPORT WAY Phone: 249-8078
Signature: [signature] Date:

9. Transporter #2. (Acknowledgment of receipt of materials)
Agent: Company:
Address: Phone:
Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: HILLSBORO LANDFILL, INC.
Name and Title BRAD BLUE OPERATIONS (503) 640-9427 Date:
Signature FEB 08 2001 Phone:

11. DISCREPANCY SPACE: (Add attachments as needed) [signature]

02/06/01

APPENDIX M

ASBESTOS WASTE SHIPMENT REPORT FORM

ASN-4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE! If you have questions, contact the DEQ Asbestos Control Section located at 2020 SW 4th, Suite 400, Portland, Oregon 97201 or call (503) 229-5982, OR (800) 452-4011 for the phone number and location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: NORTH HARDING
   2335 N. HARDING (Street) PORTLAND, OR (City/State) MULTNOMAH (County) 97227 (Zip)
   Contact person: JOE WOOD Phone: 503 888 3624
2. Operator's name and address: ALLEN STRINGER Phone: 406 293 3964
   317 MINERAL AVE. (Street) LIBBY, MT (City/State) KOOTENIA (County) 59923 (Zip)
3. Waste disposal site: HILLSBORO LANDFILL, INC. Phone: 503-640-9427
   3205 SE Minter Bridge Rd. (Street) HILLSBORO, OR (City/State) WASHINGTON (County) 97123 (Zip)
4. Describe asbestos materials: WAREHOUSE DUST WITH 1½% TREMOLITE
5. Containers: BA Number: 375 Type: BAGS
6. Total quantity (cubic yards): 25 CU. yds.

7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately Described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to government regulations. All movement of this asbestos-Containing material is recorded on this Waste Shipment Record Form.
   Name: JOSEPH WOOD Company: ACTS, INC.
   Signature: [signature] Date: 2-8-01

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: WASTE MANAGEMENT Oregon Company: Same
   Address: 3330 SE SKYPORT WAY Phone: 249-8078
   Signature: [signature] Date:
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Company:
   Address: Phone:
   Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: HILLSBORO LANDFILL, INC.
    Name and Title: BRAD BLUE OPERATIONS (503) 640-9427 Date:
    Signature: FEB 08 2001 Phone:
11. DISCREPANCY SPACE: (Add attachments as needed.)

ASN-4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE! If you have questions, contact the DEQ Asbestos Control Section located at 2020 SW 4th, Suite 400, Portland, Oregon 97201 or call (503) 229-5982, OR (800) 452-4011 for the phone number and location of your local regional DEQ office.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: NORTH HARDING
   2335 N. HARDING (Street) PORTLAND, OR (City/State) MULTNOMAH (County) 97227 (Zip)
   Contact person JOE WOOD Phone: 503 888 3627
2. Operator's name and address: ALLEN STRINGER Phone: 406 293 3964
   317 MINERAL AVE. (Street) LIBBY, MT (City/State) KOOTENIA (County) 59923 (Zip)
3. Waste disposal site: HILLSBORO LANDFILL, INC. Phone: 503-640-9427
   3205 SE Minter Bridge Rd. (Street) HILLSBORO, OR (City/State) WASHINGTON (County) 97123 (Zip)
4. Describe asbestos materials: WAREHOUSE DUST WITH 1% TREMOLITE
5. Containers: (BA) Number: 375 Type: BAGS
6. Total quantity (cubic yards): 25 cu.yds

7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately Described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to government regulations. All movement of this asbestos-Containing material is recorded on this Waste Shipment Record Form.

   Name: JOSEPH WOOD Company: ACTS INC.
   Signature: [signature] Date: 2-9-01

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: WASTE MANAGEMENT Company: SAME
   Address: 5330 NE SKYPORT Phone: 249-8075
   Signature: [signature] Date:
9. Transporter #2. (Acknowledgment of receipt of materials)
   Agent: Company:
   Address: Phone:
   Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site:
    Name and Title: Date:
    Signature: Phone:
11. DISCREPANCY SPACE: (Add attachments as needed)

APPENDIX N

APPENDIX N

ODEQ NOTICE OF INTENT

ASN-1

OREGON DEQ NOTICE OF INTENT TO REMOVE OR ENCAPSULATE FRIABLE ASBESTOS-CONTAINING MATERIAL

For DEQ use only
Date Received MAY 2 2 2000
Amount Received 750.00
Check Number 12806599
Project Number 23792

ATTENTION! This notification must be complete and received by DEQ at least 10 days before the start date of any asbestos abatement project and accompanied by the notification fee. (PLEASE TYPE OR PRINT CLEARLY)

PROJECT CATEGORY AND NOTIFICATION FEE

___ Emergency (Emergency notifications require a 50% fee increase)
A. ___ $35 for each project with less than 40 linear or 80 square feet of asbestos-containing material and for each residential abatement project.
B. ___ $70 for projects from 40 to 259 linear feet or 80 to 159 square feet of asbestos-containing material.
C. ___ $275 for projects from 260 to 1299 linear feet or 160 to 799 square feet of asbestos-containing material.
D. ___ $375 for projects from 1300 to 2599 linear feet or 800 to 1599 square feet of asbestos-containing material.
E. ___ $650 for projects from 2600 to 4999 linear feet or 1600 to 3499 square feet of asbestos-containing material.
F. X $750 for projects from 5000 to 9999 linear feet or 3500 to 5999 square feet of asbestos-containing material.
G. ___ $1,200 for projects from 10,000 to 25,999 linear feet or 6000 to 15,999 square feet of asbestos-containing material.
H. ___ $2,000 for projects from 26,000 to 259,999 linear feet or 16,000 to 159,999 square feet of asbestos-containing material.
I. ___ $2,500 for projects 260,000 linear feet or more or 160,000 square feet or more of asbestos-containing material.

1. Is this a revision to a previous notification? Yes ___ No X
2. Asbestos abatement project starting date: 02/08/01 Completion date: 02/08/01
3. Project site name: 2335 N. Harding Address: 2335 N. Harding, Portland, OR (Street) (City) (County) (ZIP)
4. Property Owner: City Liquidators
   Address: 823 SE 3rd Avenue, Portland, OR 97214 (City) (State) (ZIP)
5. Site Contact: Joe Wood Phone: 303-888-3624
6. Describe physical structure of facility: wood structure with metal siding, pier and beam
7. Give present and prior use of facility: Present use is a display manufacturing facility. Prior use was a vermiculite popping facility.
8. Will this be a complete demolition? Yes: ___ No: X
   If yes, give demolition start date: ___
9. Describe type and percentage of asbestos material and where it is located in facility: 1.5% Asbestos & Residue on on structual members near popping operation.
10. Quantity of asbestos material to be removed or encapsulated:
    Linear feet ___ Square feet: 3750 SF
11. Abatement Contractor Name: ACandS, Inc.
    Address: 8141 W. I-70 Frontage Rd. Suite 100 Arvada, CO 80002 (City) (State) (ZIP)
    Phone: 303-940-9700 ext. 10
    DEQ license number: FSC543
12. Describe method of removal or encapsulation: Residue will be removed using HEPA Vac and wet wiping methods in full containment equipped w/ personnel decon unit & waste loadout.
13. Days of week and hours of day to be worked: 7:00 AM to 5:30 PM - Monday thru Saturday
14. Oregon Certified Supervisor on this project: Michael Whitaker
    Oregon Certification #: 08573
15. Asbestos disposal site: Hillsboro Landfill
    Address: 3205 SE Minter Bridge Rd., Hillsboro, O.
16. Waste Hauler: Waste Management of Oregon Inc.
    Phone: 503-249-8078
17. Name of owner, operator, or abatement contractor: ACandS, Inc.
18. Signature: ___ Date: 11/21/00 Phone: 303-940-9700 ext. 1

Sign this form and mail with the fee to the DEQ Business Office, 811 SW 6th, Portland, OR 97204. Make checks payable to "DEQ". Revisions to notifications may be faxed to the appropriate DEQ regional office at: Portland NWR (503) 229-5265, Bend ER (541) 388-8283, and Medford WR (541) 776-6262.

Joe Wood Project Mgr Fax (303) 940-9797

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

FAX COVER LETTER

DATE: 1-23-01 TIME: _____

COVER PAGE PLUS 1 PAGES

TO: John Simpson c/o AC&S

FAX NUMBER: (503) 493-0380 PH: _____

FROM: Kevin McGrann

FAX: (503) 229-5265 PH: 229-6473

MESSAGE: _____

John A. Kitzhaber
Governor

2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471
DEQ

APPENDIX O

APPENDIX O

ACandS PERSONNEL CERTIFICATIONS

Certificate of Completion

Johnny W. Simpson

HAS SUCCESSFULLY COMPLETED THE REQUISITE TRAINING FOR
ASBESTOS ACCREDITATION UNDER TSCA TITLE II
EPA AHERA/ASHARA MODEL ACCREDITATION
STATE SPONSORED,

OREGON SUPERVISOR REFRESHER

CERTIFICATON COURSE AND EXAMINATION

Ed Gay **Instructor**

Course Date: **01/05/01** through **01/05/01**

Certification # **407-76-0630** Examination Date: **01/05/01**

Certificate Expiration Date: **01/05/02**

Clayton℠
GROUP SERVICES

Clayton Group Services, Inc.
11675 SW 66th Ave. Portland, Oregon 97223 •(503) 968-2112 •fax (503) 968-2213

ACandS Respiratory Protection Fit Test Record

Employee: JOHNNY W. SIMPSON Date: 01-10-01

Social Security Number: 407-76-0630 Office: ARVADA COLORADO

Respirator: ½ FACE - NEG. PRESSURE Respirator ID (#, initials, etc.):

Manufacturers Name: NORTH Model/Size: NORTH 7700

Tests:
- ☑ Negative Pressure Check
- ☑ Positive Pressure Check
- ☐ Other:
- ☑ Irritant Smoke Qualitative Test
- ☐ Isoamyl Acetate Qualitative Test

The test subject shall perform the following exercises in the order prescribed. CHECK EACH ONE

☑ Normal Breathing	In a normal standing position, without talking, the subject shall breathe normally.
☑ Deep Breathing	In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate
☑ Turning Head Side- To-Side	Standing in place, the subject shall slowly turn his/her head from side to side between the extreme positions on each side. The head shall be held at extreme momentarily so the subject can inhale at each side.
☑ Moving Head Up & Down	Standing in place, the subject shall slowly move his/her head up and down. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).
☑ Talking	The subject shall talk out loud slowly and loud enough so as to be heard clearly the by test conductor. The subject can read from a prepared text such as the Rainbow Passage (see reverse page), count backward from 100, or recite a memorized poem or song.
☑ Grimace	The test subject shall grimace by smiling or frowning. (This applies only to QNFT testing: it is not performed for QLFT
☑ Bending Over	The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as a shroud type QLFT or QNFT units that do not permit bending over at the waist.
☑ Normal Breathing	Same as First Exercise

NOTE: Each test exercise shall be performed for 1 minute except grimace (15 seconds). The test subject shall be questioned by the test conductor regarding comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once during the fit test exercises begin. Any adjustments voids the test, and the fit test must be repeated.

Employee briefed on fundamental principles of respiratory protection, use, inspection, cleaning, maintenance, and storage of equipment: ✓ Yes ___ No

Corrective lenses required for normal work tasks: ___ Yes ✓ No
If yes, which does employee use? ☐ prescription safety glasses ☐ prescription safety goggles ☐ respirator spectacles

Facial characteristics preventing seal (beard, missing dentures, etc.): ___ Yes ✓ No
Medical restrictions on respirator use: ___ Yes ✓ No

I hereby certify that the subject employee has been fit tested in accordance with the *OSHA Respiratory Protection Standard 29 CFR 1910.34, Appendix A "Fit Testing Procedures", (Rev 1/8/98)*. The results of the test(s) indicated that the subject employee is accepted (✓) / rejected (___) for work assignments requiring specified respiratory protection devices.

JOHNNY W. SIMPSON	JOHNNY W. SIMPSON	01-10-01
Employee (Print Name)	(Signature)	(Date)
JOHNNY W. SIMPSON	JOHNNY W. SIMPSON	01-10-01
Test Conductor (Print Name)	(Signature)	(Date)

Asbestos and Asbestiform Minerals

Physician's Written Opinion

Employee Name: Johnny Simpson
Employer: AC & S

SSN: 407-76-0630
Date of Examination: 01/08/01

In accordance with the requirements of Section (m)(4)(i) of the OSHA Asbestos Standard 29 CFR Part 1926.548 and OAR 437, Division 3 (Asbestos), the examining physician will provide the employer with this written opinion which ~~shall contain~~ the following:

1. The results of my examination have not(X), have( ) detected a medical condition which would place the above named employee at an increased risk of material impairment of health from exposure to asbestos or asbestiform minerals.

2. Based on my findings, I recommend that the following limitations be placed on the employee's assigned work or use of personal protective equipment:

None!

3. **CLASSIFICATION FOR RESPIRATORY EQUIPMENT USAGE**

☒ Unlimited: Persons with normal medical findings and spirometry tests.

☐ Limited: Medical condition or abnormal spirometry indicates use of powered air purifying respirator (PAPR) if:
- Difficult breathing is experienced in nonpowered air supply unit.
- Working alone.

☐ Restricted: Persons with abnormal spirometry and/or cardiovascular or medical problems have the following restrictions:

☐ Further evaluation is required (describe)

☐ Not qualified for respirator use.

4. In accordance with OAR/OSHA requirements, I have informed the above named individual of the results of his/her medical examination and of any medical condition that may result from his/her exposure to asbestos or asbestiform minerals.

Comments:

5. I have informed the above named individual of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Examining Physician C. Kirby Griffin, M.D. — Date: ~~12/18/00~~ 1-8-01
print name — signature

Northwest Occupational Health Associates
9370 SW Greenburg Rd. Suite 101
Portland, Oregon 97223
(503) 246-7030

This course meets the requirements of AQCC Reg.#8

Environmental Training & Consulting

2761 West Oxford Avenue #7
Englewood, CO 80110
(303)781-0422

CERTIFIES THAT

JOSE G. AGUILAR

has successfully completed

the EPA-APPROVED AHERA ANNUAL REFRESHER COURSE for WORKER(SPANISH INSTRUCTION)

and passed the required examination in that discipline

This course is EPA-approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date 02/28/2000
No. of hours 8
Certificate No. DR022800 - 01AW
Expires 02/28/2001

Lester K Ablin
Authorized Signature

Valid without raised seal

ACandS Respiratory Protection Fit Test Record

Employee: JOSE G. AGUILAR Date: 01-10-01

Social Security Number: 456-99-8860 Office: ARVADA COLORADO

Respirator: ½ FACE - NEG. PRESSURE Respirator ID (#, initials, etc.): _____

Manufacturers Name: NORTH Model/Size: NORTH 7700

Tests:
- ☑ Negative Pressure Check
- ☑ Positive Pressure Check
- ☐ Other: _____
- ☑ Irritant Smoke Qualitative Test
- ☐ Isoamyl Acetate Qualitative Test

The test subject shall perform the following exercises in the order prescribed. CHECK EACH ONE

☑ Normal Breathing	In a normal standing position, without talking, the subject shall breathe normally.
☑ Deep Breathing	In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate
☑ Turning Head Side- To-Side	Standing in place, the subject shall slowly turn his/her head from side to side between the extreme positions on each side. The head shall be held at extreme momentarily so the subject can inhale at each side.
☑ Moving Head Up & Down	Standing in place, the subject shall slowly move his/her head up and down. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).
☑ Talking	The subject shall talk out loud slowly and loud enough so as to be heard clearly the by test conductor. The subject can read from a prepared text such as the Rainbow Passage (see reverse page), count backward from 100, or recite a memorized poem or song.
☑ Grimace	The test subject shall grimace by smiling or frowning. (This applies only to QNFT testing: it is not performed for QLFT
☑ Bending Over	The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as a shroud type QLFT or QNFT units that do not permit bending over at the waist.
☑ Normal Breathing	Same as First Exercise

NOTE: Each test exercise shall be performed for 1 minute except grimace (15 seconds). The test subject shall be questioned by the test conductor regarding comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once during the fit test exercises begin. Any adjustments voids the test, and the fit test must be repeated.

Employee briefed on fundamental principles of respiratory protection, use, inspection, cleaning, maintenance, and storage of equipment: ✓ Yes ____ No

Corrective lenses required for normal work tasks: ____ Yes ✓ No
If yes, which does employee use? ☐ prescription safety glasses ☐ prescription safety goggles ☐ respirator spectacles

Facial characteristics preventing seal (beard, missing dentures, etc.): ____ Yes ✓ No
Medical restrictions on respirator use: ____ Yes ✓ No

I hereby certify that the subject employee has been fit tested in accordance with the *OSHA Respiratory Protection Standard 29 CFR 1910.34, Appendix A "Fit Testing Procedures", (Rev 1/8/98).* The results of the test(s) indicated that the subject employee is accepted (✓) / rejected (____) for work assignments requiring specified respiratory protection devices.

Jose G Aguilar	Jose G Aguilar	01-10-01
Employee (Print Name)	(Signature)	(Date)
Johnny W. Simpson	Johnny W. Simpson	01-10-01
Test Conductor (Print Name)	(Signature)	(Date)

Concentra Medical Centers

1960 Latimer Street Suite [illegible]
Phone (303) 296-2272 Fax (303) [illegible]

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 03/07/200

Employee Name: Aquilar, Jose J

Employee SSN: 456-99-8860

Address:
P.o. box 733

PRESIDIO TX 79845

Employer: AC and S Inc

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers so that a final decision on your ability to wear a respirator can be made
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

PLHCP Name (printed)

Employee's Signature

3/7/01
Expiration Date

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

Certificate of Completion

Roberto Amancio

HAS SUCCESSFULLY COMPLETED THE REQUISITE TRAINING FOR
ASBESTOS ACCREDITATION UNDER TSCA TITLE II
EPA AHERA/ASHARA MODEL ACCREDITATION
STATE SPONSORED,

OREGON WORKER REFRESHER

CERTIFICATON COURSE AND EXAMINATION

Ed Gay **Instructor**

Course Date: **01/04/01** through **01/04/01**

Certification # **631-56-3563** Examination Date: **01/04/01**

Certificate Expiration Date: **01/04/02**

Clayton GROUP SERVICES

Clayton Group Services, Inc.
11675 SW 66th Ave. Portland, Oregon 97223 •(503) 968-2112 •fax (503) 968-2213

ACandS Respiratory Protection Fit Test Record

Employee: ROBERTO AMANCIO Date: 01-10-01

Social Security Number: 631-56-3563 Office: ARVADA COLORADO

Respirator: ½ FACE - NEG. PRESSURE Respirator ID (#, initials, etc.): _____

Manufacturers Name: NORTH Model/Size: NORTH 7700

Tests:
- ☑ Negative Pressure Check
- ☑ Positive Pressure Check
- ☐ Other: _____
- ☑ Irritant Smoke Qualitative Test
- ☐ Isoamyl Acetate Qualitative Test

The test subject shall perform the following exercises in the order prescribed. CHECK EACH ONE

☑ Normal Breathing	In a normal standing position, without talking, the subject shall breathe normally.
☑ Deep Breathing	In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate
☑ Turning Head Side- To-Side	Standing in place, the subject shall slowly turn his/her head from side to side between the extreme positions on each side. The head shall be held at extreme momentarily so the subject can inhale at each side.
☑ Moving Head Up & Down	Standing in place, the subject shall slowly move his/her head up and down. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).
☑ Talking	The subject shall talk out loud slowly and loud enough so as to be heard clearly the by test conductor. The subject can read from a prepared text such as the Rainbow Passage (see reverse page), count backward from 100, or recite a memorized poem or song.
☑ Grimace	The test subject shall grimace by smiling or frowning. (This applies only to QNFT testing: it is not performed for QLFT
☑ Bending Over	The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as a shroud type QLFT or QNFT units that do not permit bending over at the waist.
☑ Normal Breathing	Same as First Exercise

NOTE: Each test exercise shall be performed for 1 minute except grimace (15 seconds). The test subject shall be questioned by the test conductor regarding comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once during the fit test exercises begin. Any adjustments voids the test, and the fit test must be repeated.

Employee briefed on fundamental principles of respiratory protection, use, inspection, cleaning, maintenance, and storage of equipment: ✓ Yes ____ No

Corrective lenses required for normal work tasks: ____ Yes ✓ No
If yes, which does employee use? ☐ prescription safety glasses ☐ prescription safety goggles ☐ respirator spectacles

Facial characteristics preventing seal (beard, missing dentures, etc.): ____ Yes ✓ No
Medical restrictions on respirator use: ____ Yes ✓ No

I hereby certify that the subject employee has been fit tested in accordance with the *OSHA Respiratory Protection Standard 29 CFR 1910.34, Appendix A "Fit Testing Procedures", (Rev 1/8/98).* The results of the test(s) indicated that the subject employee is accepted (✓) / rejected (____) for work assignments requiring specified respiratory protection devices.

Roberto B Amancio — Roberto B Amancio — 01-10-01
Employee (Print Name) (Signature) (Date)

[illegible] — JOHNNY W SIMPSON — 01-10-01
Test Conductor (Print Name) (Signature) (Date)

This course meets the requirements of AQCC Reg.#8

Environmental Training & Consulting

2761 West Oxford Avenue #7
Englewood, CO 80110
(303)781-0422

CERTIFIES THAT

ROBERTO AMANCIO

has successfully completed
the EPA-APPROVED AHERA ANNUAL REFRESHER COURSE for WORKER(SPANISH INSTRUCTION)
and passed the required examination in that discipline

This course is EPA-approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date 06/21/99
No. of hours 8
Certificate No. DR062199 - 01AW
Expires 06/21/2000

Lester K. Ablin

Authorized Signature

Invalid without raised seal

Concentra Medical Centers
1600 Larimer Street/Suite 100 Denver, CO 80202
Phone: (303) 296-2273 Fax: (303) 296-6330

Service Date: 03/13/2000

Medical Surveillance - Asbestos

Patient:	Amancio, Roberto B.	Job Title:	
SSN:	631-56-3563	Employer:	AC and S Inc
DOB:	08/11/1970	Address:	8141 W I-70 Frontage Rd North
Gender:	M		Ste 5
Marital Status:	M		ARVADA, CO 80002
Address:	PO Box 1605	Job Contact:	Don Liss
	PRESIDIO, TX 79845	Role:	Oper Chef
Home Phone:	(303) 433-2086	Phone:	(303) 940-9700 Ext.:
Work Phone:	(303) 229-4662 Ext.:	Fax:	(303) 940-9797
		Race:	ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 03/13/2000 in accordance with: ____29 CFR 1926.1101.
____40 CFR 763.121.

The following was performed:

- ☐ Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- ☐ Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- ☐ Review of information from previous medical examinations if available.
- ☐ A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- ☐ A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- ☐ A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- ☐ NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- ☐ The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

_____ Provider Signature

_____ Date

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Concentra Medical Centers
1880 Larimer Street/Suite 100 Denver, CO 80202
Phone: (303) 296-2273 Fax: (303) 296-8330

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 03/13/200

Employee SSN: 631-56-3563

Employee Name:
Amancio, Roberto B.

Address:
PO Box 1605

PRESIDIO TX 79845

Employer: AC and S Inc

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☐ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☐ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers** so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the contaminant and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instructions and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

Employee's Signature

3-13-01
Expiration Date

PLHCP Name (printed)

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

ServiceID: 240755991
X-ray Number: AR

Concentra Medical Centers
1880 Larimer Street Suite 100 Denver, CO 80202
Phone: (303) 298-2273 Fax: (303) 298-6330

Service Date: 03/13/2000
Case Date: 03/13/2000

NON-INJURY FLOWSHEET

Patient: Amancio, Roberto B.
SSN: 631-56-3583 Age: 29
Address: PO Box 1605
PRESIDIO, TX 79845
Home: (303) 433-2086
Work: (303) 229-4562 Ext.:

Employer Location: AC and S Inc
Address: 8141 W I-70 Frontage Rd No
ARVADA, CO 80002
Auth. by:

Contact: Don Liss
Role: Oper Chief
Phone: (303) 940-9700 Ext.:
Fax: (303) 940-9797

Previous Cases:	Case Date	Case Description	Employer Location	Center
	10/01/1998	Non-Injury: Annual Asbestos Physical	NSC/National Service Clean	CMC - Denver Downtown
	03/19/1997	Non-Injury: Baseline Asbestos Physical	NSC/National Service Clean	CMC - Denver North

Employer Notes:

Protocol Notes:
Physical includes PFT. Chest X-ray 2-view on request only as needed.

Non-Injury Flow	Time	Initials
Sign-in	11:10 am	ch
Admit	11:19 am	
Registration Completed	~~11:58~~	ch
Treatment Initiated		
Protocol: Asbestos Physical Annual		
Audiogram	1215	g
PFT-Pulmonary Function Test	1215	g
Physical-Asbestos Annual		
X-ray-Chest 2 view	NS	
Res. Questionnaire	1215	g

px in 98

$ appt
work-in

Check Out

Remarks:

Revision Date: 06/25/1999

Flowsheet - Non-Injury

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Certificate of Completion

Eduardo Mejia

HAS SUCCESSFULLY COMPLETED THE REQUISITE TRAINING FOR
ASBESTOS ACCREDITATION UNDER TSCA TITLE II
EPA AHERA/ASHARA MODEL ACCREDITATION
STATE SPONSORED,

OREGON WORKER REFRESHER

CERTIFICATON COURSE AND EXAMINATION

Ed Gay **Instructor**

Course Date: **01/04/01** through **01/04/01**

Certification # **585-73-8867** Examination Date: **01/04/01**

Certificate Expiration Date: **01/04/02**

Clayton℠ GROUP SERVICES

Clayton Group Services, Inc.
11675 SW 66th Ave. Portland, Oregon 97223 •(503) 968-2112 •fax (503) 968-2213

This course meets the requirements of AQCC Reg.#8

Environmental Training & Consulting

2761 West Oxford Avenue #7
Englewood, CO 80110
(303)781-0422

CERTIFIES THAT

EDUARDO MEJIA E.

has successfully completed

the EPA-APPROVED AHERA ANNUAL REFRESHER COURSE for WORKER(SPANISH INSTRUCTION)

and passed the required examination in that discipline

This course is EPA-approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date 02/28/2000
No. of hours 8
Certificate No DR022800 - 24AW
Expires 02/28/2001

Lester K Ablin
Authorized Signature

Invalid without raised seal

ACandS Respiratory Protection Fit Test Record

Employee: EDUARDO MEJIA Date: 01-10-01

Social Security Number: 585-73-8867 Office: ARVADA COLORADO

Respirator: ½ FACE - NEG. PRESSURE Respirator ID (#, initials, etc.):

Manufacturers Name: NORTH Model/Size: NORTH 7700

Tests:
- ☑ Negative Pressure Check
- ☑ Positive Pressure Check
- ☐ Other:
- ☑ Irritant Smoke Qualitative Test
- ☐ Isoamyl Acetate Qualitative Test

The test subject shall perform the following exercises in the order prescribed. CHECK EACH ONE

☑ Normal Breathing	In a normal standing position, without talking, the subject shall breathe normally.
☑ Deep Breathing	In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate
☑ Turning Head Side- To-Side	Standing in place, the subject shall slowly turn his/her head from side to side between the extreme positions on each side. The head shall be held at extreme momentarily so the subject can inhale at each side.
☑ Moving Head Up & Down	Standing in place, the subject shall slowly move his/her head up and down. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).
☑ Talking	The subject shall talk out loud slowly and loud enough so as to be heard clearly the by test conductor. The subject can read from a prepared text such as the Rainbow Passage (see reverse page), count backward from 100, or recite a memorized poem or song.
☑ Grimace	The test subject shall grimace by smiling or frowning. (This applies only to QNFT testing: it is not performed for QLFT
☑ Bending Over	The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as a shroud type QLFT or QNFT units that do not permit bending over at the waist.
☑ Normal Breathing	Same as First Exercise

NOTE: Each test exercise shall be performed for 1 minute except grimace (15 seconds). The test subject shall be questioned by the test conductor regarding comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once during the fit test exercises begin. Any adjustments voids the test, and the fit test must be repeated.

Employee briefed on fundamental principles of respiratory protection, use, inspection, cleaning, maintenance, and storage of equipment: ✓ Yes ___ No

Corrective lenses required for normal work tasks: ___ Yes ✓ No

If yes, which does employee use? ☐ prescription safety glasses ☐ prescription safety goggles ☐ respirator spectacles

Facial characteristics preventing seal (beard, missing dentures, etc.): ___ Yes ✓ No

Medical restrictions on respirator use: ___ Yes ✓ No

I hereby certify that the subject employee has been fit tested in accordance with the *OSHA Respiratory Protection Standard 29 CFR 1910.34, Appendix A "Fit Testing Procedures", (Rev 1/8/98).* The results of the test(s) indicated that the subject employee is accepted (✓) / rejected (___) for work assignments requiring specified respiratory protection devices.

Eduardo Mejia E.		01-10-01
Employee (Print Name)	(Signature)	(Date)
	JOHNNY W SIMPSON	01-10-01
Test Conductor (Print Name)	(Signature)	(Date)

Form to be filled out prior to Exam!

Health Occupational Medicine and Rehabilitation

Respirator Fitness Evaluation

Name: Eduardo Mejia E

Employer: Colorado Environmental

Date: 07/14/00 Age: 33 Physician: _____

WORKPLACE DATA

Primary exposure: asbestos

Check if applies to respirator-use situations:

___Immed. Dangerous ___Oxygen-deficient
___Incr. Temperature ___Increased humidity
___Other _____

Respirator type: _____ Cartridge type: _____

Check all that apply:
___Half-face air purifying
✓ Full-face air purifying
___Low-pressure air supplying/purifying
___SCBA
___Organic
___Dust
___Other: _____

Hours used per day 4 Work conditions Dusty
or per month ____ Exertion level _____

Other exposures: _____

Prior respirator use: ___ Yes ✓ No In military service? ____
Any problems? _____
(fit, leakage, dyspnea, etc.)

Familiar with respirator use and maintenance? _____

RECOMMENDATIONS:

✓ No restrictions in respirator usage.
___ Respirator usage approved with the following restrictions:

_____

_____

___No respirator usage approved due to _____

NATHAN POLLACK M.D. LIC. 0716220 CO

Physician Signature

Dr.

Holly Occupational Health System

Corporate Health Services

a division of **HealthONE**

OSHA ASBESTOS/HAZARDOUS MATERIALS/RESPIRATOR CERTIFICATION

In accordance with OSHA regulations:

✓	29 CFR 1926.58	Asbestos
____	29 CFR 1910.120(f)	Hazardous Materials
____	29 CFR 1910.134(b)	Respirator Certification

the examining physician will provide the employer with a written opinion which shall contain the following:

1. This is to certify that on this date: 07/04/00, and in accordance with the regulations as indicated above, I have performed a comprehensive examination on EDUARDO MENA whose Social Security Number is 585-72-5967

2. Based on my findings, I have determined that this individual
☑ MAY ☐ MAY NOT wear a respirator device while performing his/her required work tasks, and
☑ IS ☐ IS NOT medically cleared for work with ☑ ASBESTOS ☐ HAZARDOUS MATERIALS.

3. The results of my examination ☐ HAVE ☑ HAVE NOT detected a medical condition which would place the employee at increased risk of material health impairment from exposure to ☑ RESPIRATORY EQUIPMENT ☑ ASBESTOS ☐ HAZARDOUS MATERIALS.

4. In accordance with OSHA requirements, I have informed the above-named patient of medical conditions which could result from his/her exposure to ☑ RESPIRATORY EQUIPMENT ☑ ASBESTOS ☐ HAZARDOUS MATERIALS.

5. In accordance with OSHA requirement, I have fully explained the results of the medical examination and laboratory tests to the above-named patient.

6. COMMENTS: [illegible]

The complete medical examination on the above-named individual will be forwarded to the employer pending final review and interpretation of any additional medical data collected.

Date

Examining Physician

HealthONE
Bryant St. Health Center

Certificate of Completion

Isabel Herrera

HAS SUCCESSFULLY COMPLETED THE REQUISITE TRAINING FOR
ASBESTOS ACCREDITATION UNDER TSCA TITLE II
EPA AHERA/ASHARA MODEL ACCREDITATION
STATE SPONSORED,

OREGON WORKER REFRESHER

CERTIFICATON COURSE AND EXAMINATION

Ed Gay **Instructor**

Course Date: **01/04/01** through **01/04/01**

Certification # **465-71-9753** Examination Date: **01/04/01**

Certificate Expiration Date: **01/04/02**

Clayton℠
GROUP SERVICES

Clayton Group Services, Inc.
11675 SW 66th Ave. Portland, Oregon 97223 •(503) 968-2112 •fax (503) 968-2213

This course meets the requirements of AQCC Reg.#8

Environmental Training & Consulting

2761 West Oxford Avenue #7
Englewood, CO 80110
(303)781-0422

CERTIFIES THAT

ISABEL HERRERA

has successfully completed

the EPA-APPROVED AHERA ASBESTOS COURSE for WORKER (SPANISH INSTRUCTION)

and passed the required examination in that discipline

This course is EPA-approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date	06/22-25/99
No. of hours	32
Exam date	06/25/99
Certificate No.	DO062599 -19AW
Expires	06/25/2000

Lester K. Ables

Authorized Signature

Invalid without raised seal

ACandS Respiratory Protection Fit Test Record

Employee: ISABEL HERRERA Date: 01-10-01

Social Security Number: 465-71-9753 Office: ARVADA COLORADO

Respirator: ½ FACE - NEG. PRESSURE Respirator ID (#, initials, etc.):

Manufacturers Name: NORTH Model/Size: NORTH 7700

Tests:
- ☑ Negative Pressure Check
- ☑ Positive Pressure Check
- ☐ Other:
- ☑ Irritant Smoke Qualitative Test
- ☐ Isoamyl Acetate Qualitative Test

The test subject shall perform the following exercises in the order prescribed. CHECK EACH ONE

☑ Normal Breathing	In a normal standing position, without talking, the subject shall breathe normally.
☑ Deep Breathing	In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate
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☑ Talking	The subject shall talk out loud slowly and loud enough so as to be heard clearly the by test conductor. The subject can read from a prepared text such as the Rainbow Passage (see reverse page), count backward from 100, or recite a memorized poem or song.
☑ Grimace	The test subject shall grimace by smiling or frowning. (This applies only to QNFT testing: it is not performed for QLFT
☑ Bending Over	The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as a shroud type QLFT or QNFT units that do not permit bending over at the waist.
☑ Normal Breathing	Same as First Exercise

NOTE: Each test exercise shall be performed for 1 minute except grimace (15 seconds). The test subject shall be questioned by the test conductor regarding comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once during the fit test exercises begin. Any adjustments voids the test, and the fit test must be repeated.

Employee briefed on fundamental principles of respiratory protection, use, inspection, cleaning, maintenance, and storage of equipment: ✓ Yes ___ No

Corrective lenses required for normal work tasks: ___ Yes ✓ No
If yes, which does employee use? ☐ prescription safety glasses ☐ prescription safety goggles ☐ respirator spectacles

Facial characteristics preventing seal (beard, missing dentures, etc.): ___ Yes ✓ No
Medical restrictions on respirator use: ___ Yes ✓ No

I hereby certify that the subject employee has been fit tested in accordance with the *OSHA Respiratory Protection Standard 29 CFR 1910.34, Appendix A "Fit Testing Procedures", (Rev 1/8/98).* The results of the test(s) indicated that the subject employee is accepted (✓) / rejected (___) for work assignments requiring specified respiratory protection devices.

Isabel Herrera	Isabel Herrera	01-10-01
Employee (Print Name)	(Signature)	(Date)
Johnny W. Simpson	JOHNNY W. SIMPSON	01-10-01
Test Conductor (Print Name)	(Signature)	(Date)

PHYSICIAN'S WRITTEN OPINION - LEAD

Applicant's Name: Herrera, Isabel Social Security No.: 465719753

Address: _____

"The above named individual was seen by me on 3-2-00, and in accordance with all applicable portions of OSHA's Lead Standard for the Construction Industry, 29 CFR 1926.62, with which I am familiar, I have indicated by my initials, that I have performed the following:"

1. PD Conducted a physical examination of this individual with emphasis on the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1);

2. PD Concluded a chest roentgenogram was ☐ was not ☑ required for this examination;

3. DW Determined that this individual can ☑ or can not ☐ use a negative pressure respirator while performing his/her required employment services, and if, having determined that this individual cannot use a negative pressure respirator, I have further determined that this individual can ☐ or can not ☐ use a Powered air purifying respirator (PAPR).

4. PD Informed this individual that I have ☐ or have not ☑ detected a medical condition which would place this individual at an increased risk of material impairment of his/her health from exposure to lead;

5. PD Informed this individual that I have ☐ or have not ☑ recommended any special protective measures to be provided or limitations to be placed upon the employee's exposure to lead;

6. PD Advised this individual of the results of my examination and of any medical condition, occupational or ~~non~~occupational, which dictates further medical examinations or treatment.

7. _____ Informed this individual that his/her blood lead determinations are: _____ µg/dL; and

8. PD Advised this individual that I will not reveal, either in this written opinion or orally, or in any other means of communication with the employer, findings, including laboratory results, any diagnoses unrelated to this individuals occupational exposure to lead.

Comments and/or Limitations (if any): _____

(303) 296-2272
(Physician's Phone No.)

Pedro J Diaz MD
(Physician's Printed Name)

Pedro D
(Physician's Signature)

1860 Lorimer St Ste 100
(Physician's Address)

[WHITE ORIGINAL TO NSC OFFICE - CANARY COPY TO JOB SITE - PINK COPY TO EMPLOYEE]

Certificate of Completion

Juan O Gomez

HAS SUCCESSFULLY COMPLETED THE REQUISITE TRAINING FOR
ASBESTOS ACCREDITATION UNDER TSCA TITLE II
EPA AHERA/ASHARA MODEL ACCREDITATION
STATE SPONSORED,

OREGON WORKER REFRESHER

CERTIFICATON COURSE AND EXAMINATION

Ed Gay — **Instructor**

Course Date: **01/04/01** through **01/04/01**

Certification # **463-97-0230** Examination Date: **01/04/01**

Certificate Expiration Date: **01/04/02**

Clayton℠
GROUP SERVICES

Clayton Group Services, Inc.
11675 SW 66th Ave. Portland, Oregon 97223 •(503) 968-2112 •fax (503) 968-2213

ACandS Respiratory Protection Fit Test Record

Employee: JUAN GOMEZ Date: 01-10-01

Social Security Number: 463-97-0230 Office: ARVADA COLORADO

Respirator: ½ FACE - NEG. PRESSURE Respirator ID (#, initials, etc.): _____

Manufacturers Name: NORTH Model/Size: NORTH 7700

Tests:
- ☑ Negative Pressure Check
- ☑ Positive Pressure Check
- ☐ Other: _____
- ☑ Irritant Smoke Qualitative Test
- ☐ Isoamyl Acetate Qualitative Test

The test subject shall perform the following exercises in the order prescribed. CHECK EACH ONE

☑ Normal Breathing	In a normal standing position, without talking, the subject shall breathe normally.
☑ Deep Breathing	In a normal standing position, the subject shall breathe slowly and deeply, taking caution so as not to hyperventilate
☑ Turning Head Side- To-Side	Standing in place, the subject shall slowly turn his/her head from side to side between the extreme positions on each side. The head shall be held at extreme momentarily so the subject can inhale at each side.
☑ Moving Head Up & Down	Standing in place, the subject shall slowly move his/her head up and down. The subject shall be instructed to inhale in the up position (i.e., when looking toward the ceiling).
☑ Talking	The subject shall talk out loud slowly and loud enough so as to be heard clearly the by test conductor. The subject can read from a prepared text such as the Rainbow Passage (see reverse page), count backward from 100, or recite a memorized poem or song.
☑ Grimace	The test subject shall grimace by smiling or frowning. (This applies only to QNFT testing: it is not performed for QLFT
☑ Bending Over	The test subject shall bend at the waist as if he/she were to touch his/her toes. Jogging in place shall be substituted for this exercise in those test environments such as a shroud type QLFT or QNFT units that do not permit bending over at the waist.
☑ Normal Breathing	Same as First Exercise

NOTE: Each test exercise shall be performed for 1 minute except grimace (15 seconds). The test subject shall be questioned by the test conductor regarding comfort of the respirator upon completion of the protocol. If it has become unacceptable, another model of respirator shall be tried. The respirator shall not be adjusted once during the fit test exercises begin. Any adjustments voids the test, and the fit test must be repeated.

Employee briefed on fundamental principles of respiratory protection, use, inspection, cleaning, maintenance, and storage of equipment: ✓ Yes ____ No

Corrective lenses required for normal work tasks: ____ Yes ✓ No
If yes, which does employee use? ☐ prescription safety glasses ☐ prescription safety goggles ☐ respirator spectacles

Facial characteristics preventing seal (beard, missing dentures, etc.): ____ Yes ✓ No
Medical restrictions on respirator use: ____ Yes ✓ No

I hereby certify that the subject employee has been fit tested in accordance with the *OSHA Respiratory Protection Standard 29 CFR 1910.34, Appendix A "Fit Testing Procedures", (Rev 1/8/98).* The results of the test(s) indicated that the subject employee is accepted (✓) / rejected (____) for work assignments requiring specified respiratory protection devices.

Juan Gomez	Juan Gomez	01-10-01
Employee (Print Name)	(Signature)	(Date)
Johnny W. Simpson	Johnny W. Simpson	01-10-01
Test Conductor (Print Name)	(Signature)	(Date)

Concentra Medical Centers
1860 Lanmer StreetSuite 100 Denver, CO 80202
Phone: (303) 296-2273 Fax: (303) 296-3330

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 07/13/2000

Employee Name: Gomez, Juan

Employee SSN: 463-97-0230

Address: 1673 dallas St Apt B

AURORA CO 80010

Employer: AC and S Inc

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers so that a final decision on your ability to wear a respirator can be made
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined affect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

PLHCP Name (printed)

Juan Gomez C.
Employee's Signature

7/13/01
Expiration Date

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee