

**ENVIRONMENTAL
TECHNOLOGIES**
a Division, COLE CONSULTING CORPORATION

Elmsford Executive Park, Building 5
2289 Saw Mill River Road ■ Elmsford, New York 10523
TELEPHONE 914 • 345 • 6000 ■ FACSIMILE 914 • 345 • 0045

February 26th, 2003

Mr. Andrew Confortini
EPA Quad B Leader
USEPA, 17TH Floor
290 Broadway
New York, NY. 10007-1866

Re: **WTC HVAC Report for 45 Wall Street.**

Inspection date : February 21st, 2003

Dear Mr. Confortini,

According to visual inspection conducted by our HVAC Specialist Duct Dusters Air Duct Cleaning, Environmental Technologies Division, Cole Consulting Corp hereby recommend that one equipments should be recleaned because WTC dust was found in the equipments.

Please note that during the visual inspection of the HVAC Units in the above building, the following under listed units were found to be impacted and should be cleaned.

I. HVAC Unit : Located in Elevator room and serving Gym and Club 45

All other systems were cleaned properly. Please note that there are **Three (3) Central Ventilation System Units cleaned** in this building and re-inspected. This constitute three (3) inspections.

Please do not hesitate to call me if you have any question with this report.

Yours truly,

Environmental Technologies



John Anuforo
Division Manager

VENTILATION SYSTEM EVALUATION FORM

Please complete this form in accordance with instructions in the accompanying guidance document

Part 1.0 General Information

Date of evaluation: <u>2/21/03</u>		Building contact name and phone:	
Evaluation team (list name and affiliation):			
		(Environmental professional)	
<u>Tony Gallo - Duct Dusters</u>		(HVAC professional)	
Building address:		Type of Facility (check all that apply):	
<u>45 WALL ST.</u>		☒ Residential	
<u>NEW YORK N.Y.</u>		☐ Multi-use	
		☐ Other (describe)	
Date of construction:			
Number of residential units:		Number of floors:	
Prior inspection report/maintenance records available for review?:			
Other comments			
Ventilation system types (check all that apply and indicate total no. of units)			
Central ventilation system		Mechanical exhaust system	
Est. no. of units <u>3</u>		Est. no. of units	
Mechanical make-up air system		Passive shaft/duct	
Est. no. of units		Est. no. of units	
Other (describe)			

I certify that to the best of my knowledge, the information and observations recorded on this form including all attachments are a true and accurate representation of site conditions.

Ventilation System (HVAC) Evaluator

Date 2/21/03

Part 2.0 Visual Inspection Forms

Use the attached forms to document visual inspections. Complete the forms in accordance with instructions in the accompanying guidance document.

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification: <u>HVAC GYM / CLUB 45</u>			
Location: <u>ELEVATOR RM</u>		Area Served: <u>GYM + CLUB 45</u>	
Associated mechanical room: clean ☐ Y ☐ N dry ☐ Y ☐ N stored chemicals/refuse ☐ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
			Component ☐ not present ☐ not found ☐ inaccessible
Outside air intake: Location: _____			
Accessible for inspection? Y ☐ N ☒ (explain): <u>SIDE OF BUILDING</u>			<u>I</u>
louvers, grates and/or screens			<u>I</u>
outside air duct		<u>N</u>	<u>N</u>
outside air damper(s)		<u>N</u>	<u>N</u>
Air handling unit:			
outside air mixing chamber		<u>N</u>	<u>N</u>
filter rack(s)			<u>NP</u>
filter media			<u>NP</u>
blower assembly incl: blower wheel, blower housing; air vanes; in-line noise attenuators		<u>Y</u>	<u>Y</u>
blower housing acoustical lining		<u>N</u>	<u>N</u>
pre-heat coils			<u>NP</u>
heating coils		<u>Y</u>	<u>N</u>
cooling coils			<u>NP</u>
re-heat coils			<u>NP</u>
condensate drain pan		<u>Y</u>	<u>N</u>
supply air plenum		<u>Y</u>	<u>N</u>
supply air plenum damper(s)		<u>Y</u>	<u>N</u>
vibration collars		<u>Y</u>	<u>N</u>
Supply air distribution:			
Supply air ducts Est. total ln ft <u>200</u> No. locations inspected <u>3</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		<u>Y</u>	<u>N</u>
Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			<u>NP</u>
Accessible turning vanes Est. total qty <u>2</u> No. locations inspected <u>2</u>		<u>Y</u>	<u>N</u>
In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			<u>NP</u>
Supply air diffusers Est. total qty <u>20</u> No. locations inspected <u>4</u>		<u>N</u>	<u>N</u>
Return air distribution:			
Return air ducts Est. total ln ft <u>50</u> No. locations inspected <u>2</u>			
Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		<u>Y</u>	<u>N</u>
Return air plenum Est. total RA plenum areas <u>1</u> No. locations inspected <u>1</u>		<u>N</u>	<u>N</u>
Return air plenum damper Est. total qty _____ No. locations inspected _____			<u>NP</u>
Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			<u>NP</u>

Accessible turning vanes	Est. total qty _____	No. locations			
inspected			Y	N	
Return air grilles	Est. total qty _____	No. locations inspected	N	N	

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component ξ not present ξ not found ξ inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>NO FILTERS PRESENT</u> Abraded/delaminated acoustical lining Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): <u>WTC DUST FOUND ON BLUVER WHEEL BLADES. SOME</u> <u>AHU COMPONENTS NOT CLEANED</u>			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification: <u>ATU-1</u>			
Location: <u>Basement - Boiler RM</u>		Area Served:	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
			Component ☐ not present ☐ not found ☐ inaccessible
Outside air intake: Location: _____			
Accessible for inspection? Y ☒ N ☐ (explain):		N	N
louvers, grates and/or screens		N	N
outside air duct		N	N
outside air damper(s)		N	N
Air handling unit:			
outside air mixing chamber		N	N
filter rack(s)		N	N
filter media			NF
blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N
blower housing acoustical lining		N	N
pre-heat coils			NP
heating coils		Y	N
cooling coils		N	N
re-heat coils			NP
supply air damper		Y	N
supply air plenum		N	N
supply air plenum damper(s)		N	N
vibration collars		N	N
Supply air distribution:			
Supply air ducts Est. total ln ft _____ No. locations inspected <u>3</u>			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood		N	N
Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
Accessible turning vanes Est. total qty <u>2</u> No. locations inspected <u>2</u>		N	N
In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
Supply air diffusers Est. total qty <u>12</u> No. locations inspected <u>3</u>		N	N
Return air distribution:			
Return air ducts Est. total ln ft _____ No. locations inspected _____			
Specify type (circle): <u>metal</u> fibrous glass lined metal masonry fibrous glass board flex-duct wood			NP
Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP

inspected	Accessible turning vanes Est. total qty _____ No. locations			UP
	Return air grilles Est. total qty _____ No. locations inspected			NP

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component ξ not present ξ not found ξ inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>NO FILTERS</u> Abraded/delaminated acoustical lining Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): NO WTC DUST FOUND SOME AHU COMPONENTS NOT CLEANED.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			

2.1 Central Ventilation System Visual Inspection Form

Page 1 of 2

Ventilation System Identification: <u>HV-1</u>			
Location: <u>BASEMENT - BOILER RM</u>		Area Served: <u>GAS METER RM / BOILER RM</u>	
Associated mechanical room: clean ☒ Y ☐ N dry ☒ Y ☐ N stored chemicals/refuse ☒ Y ☐ N			
System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]		Surface Dust/Debris Present?	WTC Dust Present?
			Component ☐ not present ☐ not found ☐ inaccessible
Outside air intake: Location: _____			
Accessible for inspection? Y ☒ N ☐ (explain): _____		N	N
louvers, grates and/or screens		N	N
outside air duct		N	N
outside air damper(s)		N	N
Air handling unit:			
outside air mixing chamber		N	N
filter rack(s)		N	N
filter media			NF
blower assembly incl. blower wheel, blower housing, air vanes, in-line noise attenuators		Y	N
blower housing acoustical lining		N	N
pre-heat coils			NP
heating coils		Y	N
cooling coils			
re-heat coils			NP
supply air plenum		Y	N
supply air plenum damper(s)			NP
vibration collars		N	N
Supply air distribution: Supply air ducts Est. total ln ft <u>60</u> No. locations inspected <u>3</u> Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood		N	N
Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP
Accessible turning vanes Est. total qty <u>1</u> No. locations inspected <u>1</u>		N	N
In-line reheat/cooling coils Est. total qty _____ No. locations inspected _____			NP
Supply air diffusers Est. total qty <u>7</u> No. locations inspected <u>7</u>		Y	N
Return air distribution: Return air ducts Est. total ln ft _____ No. locations inspected _____ Specify type (circle): <u>metal</u> <u>fibrous glass lined metal</u> masonry fibrous glass board flex-duct wood			NP
Return air plenum Est. total RA plenum areas _____ No. locations inspected _____			NP
Return air plenum damper Est. total qty _____ No. locations inspected _____			NP
Accessible in-line fire dampers Est. total qty _____ No. locations inspected _____			NP

inspected	Accessible turning vanes	Est. total qty _____	No. locations			NP
	Return air grilles	Est. total qty _____	No. locations inspected			NF

2.1 Central Ventilation System Visual Inspection Form

Page 2 of 2

System Components [NOTE: if component not present (NP), not found (NF) or inaccessible (I) please indicate in last column]	Surface Dust/ Debris Present?	WTC Dust Present?	Component ξ not present ξ not found ξ inaccessible
Other (specify):			
Other Information: Filter loading (light, moderate, heavy): <u>NO FILTERS</u> Abraded/delaminated acoustical lining Filter bypass (describe)			
General impression (indicate recommendations for cleaning based on finding of WTC dust): NO WTC DUST FOUND. SOME AHU COMPONENTS NOT CLEANED.			
KEY: NP = not present; NF = not found; I = inaccessible; U = unknown			