

Mr. Bernard P. Orlan
Indoor Air Quality Measurements
Stuyvesant High School (M477)

February 27, 2002

Page 5

ATC Project No. 15-19125-0246

ATTACHMENT

IAQ FIELD DATA COLLECTION FORMS

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

LOCATION : STUYVESANT HIGH SCHOOL DATE 02-26-02 PROJECT NO. 15-19125-0246

RESPIRABLE PARTICULATES ($\mu\text{g} / \text{m}^3$)
In Rooms with portable HEPA air Purifier

Time /Location	Room 740	Room 638	Room 333	Room 327
7:50	15	14	14	12
9:00	16	15	17	14
10:10	18	16	17	15
11:15	17	17	16	17
12:10	18	16	18	18
13:05	17	17	15	16

CITY_21MC100_003045454

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

Page 1 of 12

TIME 8:00

LOCATION Stuyvesant HS. (M477) DATE 02-26-02 PROJECT NO. 19125-0246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
Outside		52.3	48.7	561	0	29	0.0
1st fl. Hallway North side	7	69.2	31.5	572	0	10	0.0
Auditorium		70.3	29.6	532	0	19	0.0
1st fl. lobby	10	69.2	31.8	544	0	12	0.0
125	25	70.1	30.2	846	0	16	0.0
129	20	70.3	29.8	963	0	15	0.0
132	3	70.8	30.6	764	0	13	0.0
133	15	69.9	31.4	894	0	15	0.0
Hallway by 133	5	70.2	30.4	546	0	14	0.0
Stair West side		70.4	29.6	529	0	15	0.0
Guideline levels ASHRAE/AIHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) ☐ Does ☐ Does not meet established indoor air quality guidelines.

Signature: *H. Anderson* Date: 02-26-02

CITY_21MC100_003045455

ATC ASSOCIATES, INC.

Page 2 of 12TIME 8:30

INDOOR AIR QUALITY FIELD REPORT

LOCATION Stuyvesant H.S. (M477) DATE 02-26-02 PROJECT NO. 19125-02146

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
<u>2nd fl. lobby</u>	<u>5</u>	<u>68.5</u>	<u>23.8</u>	<u>551</u>	<u>0</u>	<u>13</u>	<u>0.0</u>
<u>213 m. office</u>	<u>1</u>	<u>70.4</u>	<u>26.2</u>	<u>602</u>	<u>0</u>	<u>13</u>	<u>0.0</u>
<u>211 G office</u>	<u>3</u>	<u>70.8</u>	<u>23.4</u>	<u>664</u>	<u>0</u>	<u>16</u>	<u>0.0</u>
<u>260</u>		<u>70.2</u>	<u>23.6</u>	<u>585</u>	<u>0</u>	<u>18</u>	<u>0.0</u>
<u>229</u>	<u>30</u>	<u>70.0</u>	<u>28.4</u>	<u>341</u>	<u>0</u>	<u>16</u>	<u>0.0</u>
<u>231</u>	<u>25</u>	<u>69.7</u>	<u>30.4</u>	<u>885</u>	<u>0</u>	<u>17</u>	<u>0.0</u>
<u>233</u>	<u>30</u>	<u>70.2</u>	<u>23.6</u>	<u>371</u>	<u>0</u>	<u>15</u>	<u>0.0</u>
<u>235</u>	<u>30</u>	<u>69.2</u>	<u>30.5</u>	<u>384</u>	<u>0</u>	<u>18</u>	<u>0.0</u>
<u>236 office</u>	<u>3</u>	<u>70.3</u>	<u>30.1</u>	<u>704</u>	<u>0</u>	<u>16</u>	<u>0.0</u>
<u>237</u>	<u>25</u>	<u>69.4</u>	<u>30.7</u>	<u>862</u>	<u>0</u>	<u>17</u>	<u>0.0</u>
Guideline levels ASHRAE/AHHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) ☐ Does ☐ Does not meet established indoor air quality guidelines.

Signature: _____

H. AndersonDate: 02-26-02

ATC ASSOCIATES, INC.

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TIME 8:55

INDOOR AIR QUALITY FIELD REPORT

LOCATION Stuyvesant H.S. (M477) DATE 02-26-02 PROJECT NO. 19/25-0246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
3rd fl. Hallway	2	70.8	27.6	536	0	14	0.0
3rd fl. Gym	25	70.2	28.4	748	0	21	0.0
303	30	71.3	27.1	1003	0	16	0.0
305	25	70.4	27.4	895	0	18	0.0
307	30	69.9	30.2	992	0	17	0.0
313	30	70.8	28.6	1021	0	15	0.0
315	30	70.4	29.1	1015	0	16	0.0
327.	30	69.6	30.6	1006	0	14	0.0
329	25	71.3	28.4	1031	0	16	0.0
333	30	71.8	28.1	1026	0	17	0.0
Guideline levels ASHRAE/AHIA/EPA		68 -75°F/winter 73 -79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: H. Andrey Date: 02-26-02

CITY_21MC100_003045457

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

Page 4 of 12TIME 9:20LOCATION Stuyvesant H.S. (M47F) DATE 02-26-02 PROJECT NO. 19125-02146

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
335	25	69.4	31.4	926	0	15	0.0
336 P. office	1	70.3	31.9	617	0	13	0.0
337	30	69.8	30.8	1041	0	16	0.0
338 P. lab	1	71.4	31.2	615	0	19	0.0
339	30	70.6	27.8	1068	0	14	0.0
4th fl. Hallway		70.9	26.3	567	0	15	0.0
401	25	71.2	27.4	1096	0	17	0.0
402 office	1	70.3	28.9	706	0	16	0.0
403	30	70.8	27.9	1065	0	15	0.0
404	25	71.4	27.1	1008	0	13	0.0
Guideline levels ASHRAE/AHIA/EPA		68 -75°F/winter 73 -79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: H. M. Long Date: 02-26-02

CITY_21MC100_003045458

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

TIME 3:40

LOCATION Stuyvesant H.S. (M47E) DATE 02-26-02 PROJECT NO. 19125-02246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
405	30	70.3	31.5	1096	0	16	0.0
407	25	69.7	30.8	1005	0	18	0.0
411	30	70.6	30.6	1076	0	14	0.0
413	30	70.8	29.9	1126	0	15	0.0
427	25	70.4	30.2	987	0	18	0.0
429	25	69.4	29.7	762	0	17	0.0
431	30	70.4	28.4	1041	0	15	0.0
433	30	71.2	27.6	1036	0	18	0.0
435	25	68.8	30.5	1045	0	16	0.0
436	20	69.4	31.2	904	0	18	0.0
Guideline levels ASHRAE/AIHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments:

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: H. Adley Date: 02-28-02

ATC ASSOCIATES, INC.

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TIME 10:00

INDOOR AIR QUALITY FIELD REPORT

LOCATION Stuyvesant H.S. (M477) DATE 02-26-02 PROJECT NO. 19125-0246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
437	30	69.4	30.4	1125	0	15	0.0
439	30	69.8	30.6	1095	0	16	0.0
440	30	70.3	29.4	1118	0	17	0.0
5th fl. Hallway	7	72.4	26.7	607	0	13	0.0
Cafeteria	60	73.5	25.4	1096	0	18	0.0
503	25	70.8	29.6	1008	0	16	0.0
505	30	69.8	30.1	1115	0	14	0.0
507	30	70.9	29.1	1126	0	17	0.0
511	30	71.6	27.3	1096	0	19	0.0
513	30	71.3	28.1	1044	0	16	0.0
Guideline levels ASHRAE/AIHA/EPA		68 -75°F/winter 73 -79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: H. [Signature] Date: 02-26-02

CITY_21MC100_003045460

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

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TIME 10:25

LOCATION Stuyvesant H.S. (M47F) DATE 02-26-02 PROJECT NO. 19125-02146

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
525	25	70.2	29.6	945	0	18	0.0
6th fl. Hallway	5	71.4	28.4	601	0	14	0.0
6th fl. Gym	45	70.5	31.6	1186	0	19	0.0
601 office	1	71.3	29.4	678	0	15	0.0
615 library	15	71.8	29.7	765	0	19	0.0
627	30	70.1	28.4	1126	0	21	0.0
629	30	69.6	30.2	1113	0	18	0.0
635	25	70.1	29.6	981	0	15	0.0
636	25	69.4	30.2	926	0	17	0.0
638	30	68.9	30.7	1007	0	16	0.0
Guideline levels ASHRAE/AHIA/EPA		68 -75°F/winter 73 -79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: A. S. Lopez Date: 02-26-02

CITY_21MC100_003045461

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

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TIME 10:50

LOCATION Stuyvesant H.S (M47F) DATE 02-26-02 PROJECT NO. 19125-0246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
639	30	69.7	29.4	1004	0	18	0.0
640	25	70.4	29.1	985	0	16	0.0
7th floor hallway	2	70.6	27.1	562	0	14	0.0
701 office	1	71.8	28.9	673	0	16	0.0
702 office	2	72.6	29.1	709	0	15	0.0
703 lab		71.6	28.4	713	0	21	0.0
704 office		72.3	29.6	663	0	17	0.0
715	30	70.6	30.1	1003	0	16	0.0
717	30	70.5	30.2	1121	0	18	0.0
726 S.R.	10	69.8	29.6	927	0	15	0.0
Guideline levels ASHRAE/AHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) ☐ Does ☐ Does not meet established indoor air quality guidelines.

Signature: H. A. Long Date: 02-26-02

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

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TIME 11:15

LOCATION Stuyvesant H.S. (M477) DATE 02-26-02 PROJECT NO. 19/25-0246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
727 lab	10	69.6	29.6	642	0	21	0.0
736	25	69.8	30.2	894	0	17	0.0
737	30	70.2	28.7	1005	0	19	0.0
738	30	69.1	31.6	1035	0	16	0.0
739	25	68.8	30.0	1008	0	18	0.0
740	30	70.2	27.6	1028	0	18	0.0
8th floor hallway	3	70.8	28.3	567	0	14	0.0
801 office	1	70.6	29.4	548	0	16	0.0
807 F. lab	20	70.7	28.6	945	0	13	0.0
804	20	69.6	30.4	863	0	12	0.0
Guideline levels ASHRAE/AIHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: H. Aubrey Date: 02-26-02

CITY_21MC100_003045463

ATC ASSOCIATES, INC.

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TIME 11:45

INDOOR AIR QUALITY FIELD REPORT

LOCATION Stuyvesant H.S. (MATH) DATE 02-26-02 PROJECT NO. 19125-02146

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
826 S.C.	7	68.9	30.9	704	0	15	0.0
827 G.L.		69.4	30.1	713	0	21	0.0
835	25	70.1	27.6	938	0	18	0.0
836	30	70.6	28.1	1148	0	19	0.0
840	30	70.4	28.4	1133	0	15	0.0
9th Fl. Hallway	5	71.2	27.0	561	0	13	0.0
901 office	1	70.8	26.3	628	0	14	0.0
902	1	70.3	28.1	645	0	15	0.0
925 lab		69.8	30.1	675	0	18	0.0
926 S.C.	10	70.3	28.6	721	0	16	0.0
Guideline levels ASHRAE/AIHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) () Does () Does not meet established indoor air quality guidelines.

Signature: H. Anderson Date: 02-26-02

ATC ASSOCIATES, INC.

Page 11 of 12TIME 12:20

INDOOR AIR QUALITY FIELD REPORT

LOCATION Stuyvesant H.S. (M47F) DATE 02-26-02 PROJECT NO. 19125-0246

Location	Occup.	Temperature ("F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
935	30	69.8	28.3	1096	0	17	0.0
936	30	69.6	29.3	1067	0	16	0.0
938 S.R.	10	70.2	27.4	963	0	15	0.0
939	30	69.8	28.1	1128	0	20	0.0
940	30	71.2	27.4	1145	0	19	0.0
Hallway by 940	1	70.6	28.4	608	0	14	0.0
Stair West side		70.2	27.4	586	0	15	0.0
Stair East side		70.8	26.8	547	0	18	0.0
10th floor Hallway	5	71.2	26.5	612	0	16	0.0
1001	30	71.4	29.3	1158	0	21	0.0
Guideline levels ASHRAE/AIHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) ☐ Does ☐ Does not meet established indoor air quality guidelines.Signature: H. Adony Date: 02-26-02

ATC ASSOCIATES, INC.
INDOOR AIR QUALITY FIELD REPORT

Page 12 of 12

TIME 12:40

LOCATION Stuyvesant H.S (M477) DATE 02-26-02 PROJECT NO. 19125-0246

Location	Occup.	Temperature (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	Respirable Particulates (ug/m ³)	TVOCs (ppm)
1004	25	71.3	26.3	945	0	18	0.0
1006	25	70.8	27.2	986	0	14	0.0
1007	30	71.6	26.5	1126	0	18	0.0
1009	30	70.3	28.4	1148	0	15	0.0
1010	30	69.8	30.1	1152	0	21	0.0
1017	25	70.8	29.5	1006	0	16	0.0
1024	30	69.5	27.6	1129	0	18	0.0
1025	25	70.3	26.8	986	0	18	0.0
1033		69.8	28.1	648	0	20	0.0
Outside		57.5	44.6	553	0	26	0.0
Guideline levels ASHRAE/AIHA/EPA		68-75°F/winter 73-79°F/summer	30-60%	Outdoor level + 700 ppm	9 ppm	65 ug/m ³ 24-hour average	1 ppm

Comments: _____

The assessed location(s) ☐ Does ☐ Does not meet established indoor air quality guidelines.

Signature: H. Abo Date: 02-26-02

CITY_21MC100_003045466