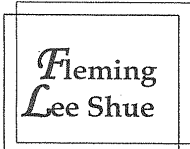


Appendix F

Air Monitoring Data



Environmental Management & Consulting

DAILY CAMP

Monitor: Bill Maniguetz

Date: 8/6/12

Serial Number

Upwind (UW) Dust Track E0023 0 mg/m3

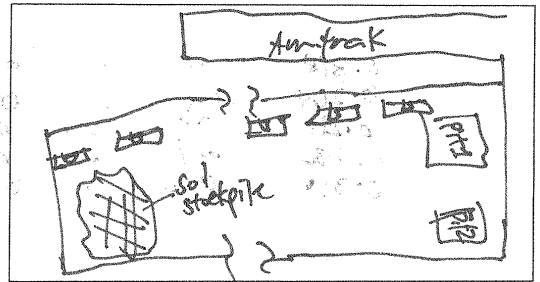
Downwind (DW) Dust Track _____ mg/m3

UW PID E-0040 100 ppm

DW PID _____ ppm

Calibration Results:

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.172	Ø	—	0.204	Ø	—	Moist soil	70°	N/A
07:30AM	0.259	Ø	—	0.260	Ø	—	Moist soil	70°	N/A
08:00AM	0.184	Ø	—	0.235	Ø	—	Moist soil	72°	N/A
08:30AM	0.260	Ø	—	0.240	Ø	—	Moist soil	74°	N/A
09:00AM	0.193	Ø	—	0.203	Ø	—	soil sample pit	76°	N/A
09:30AM	0.174	Ø	—	0.215	Ø	—	"	76°	N/A
10:00AM	0.400	Ø	—	0.316	Ø	—	"	78°	N/A
10:30AM	0.267	Ø	—	0.303	Ø	—	"	78°	N/A
11:00AM	0.315	Ø	—	0.264	Ø	—	"	80°	N/A
11:30AM	0.332	Ø	—	0.301	Ø	—	"	80°	N/A
12:00PM	0.188	Ø	—	0.202	Ø	—	"	82°	N/A
12:30PM	0.216	Ø	—	0.238	Ø	—	"	82°	N/A

Station	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.318	0	—	0.07	0	—	No soil movement	84°	N/A
13:30PM	0.264	0.1	—	0.238	0.8	—	SP-1 down to rock	84°	N/A
14:00PM	0.211	0.9	—	0.241	0.6	—	" " "	84°	N/A
14:30PM	0.236	0.1	—	0.240	0.1	—	" " "	84°	N/A
15:00PM	0.310	0.2	—	0.250	0.1	—	" " "	84°	N/A
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOG levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pires

Date: 8/7/2012

Serial Number

Upwind (UW) Dust Track E-0023

Downwind (DW) Dust Track _____

Calibration Results:

OK mg/m³

mg/m³

UW PID E-0040

102 ppm

DW PID _____

ppm

Sketch (North →)



- Key
- Pires
 - Stackpile
 - Soil
 - Pires saw today

Station	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.010	0.0	NO	0.067	0.0	NO	moist	71°F	N/A ↓
07:30AM	0.063	0.0	NO	0.340	0.0	NO	moist	71°F	
08:00AM	0.051	0.0	NO	0.000	0.0	NO	moist	71°F	
08:30AM	0.025	0.0	NO	0.000	0.0	NO	moist	71°F	
09:00AM	0.088	0.0	NO	0.014	0.0	NO	moist	72°F	
09:30AM	0.000	0.0	NO	0.000	0.0	NO	moist	72°F	
10:00AM	0.145	0.0	NO	0.063	0.0	NO	MOIST	73°F	
10:30AM	0.060	0.0	NO	0.249	0.0	NO	MOIST	73°F	
11:00AM	0.049	0.0	NO	0.058	0.0	NO	MOIST TWA = 0.037mg/m ³	75°F	
11:30AM	0.175	0.0	NO	0.040	0.0	NO	Moist	75°F	
12:00PM	0.170	0.0	NO	0.085	0.0	NO	Moist	78°F	
12:30PM	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Moist	78°F	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.002	0.0	NO	0.081	0.0	NO	Moist	78°F	N/A
13:30PM	0.462	0.0	NO	0.055	0.0	NO	moist	78°F	↓
14:00PM	0.051	0.0	NO	0.043	0.0	NO	MOIST	80°F	
14:30PM	0.053	0.0	NO	0.021	0.0	NO	Moist - TWA = 0.094	80°F	
15:00PM	0.176	0.0	NO	0.033	0.0	NO	moist	80°F	
15:30PM	0.014	0.0	NO	0.051	0.0	NO	MOIST	80°F	
16:00PM	0.116	0.0	NO	0.120	0.0	NO	MOIST	82	
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 ~~micro~~ m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 ~~micro~~ m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action

**Fleming
Lee Shue**

Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pires

Date: 8/8/2012

Serial Number

Upwind (UW) Dust Track E-0023

Downwind (DW) Dust Track ~~E-004893~~

Calibration Results:

OK mg/m³

OK mg/m³

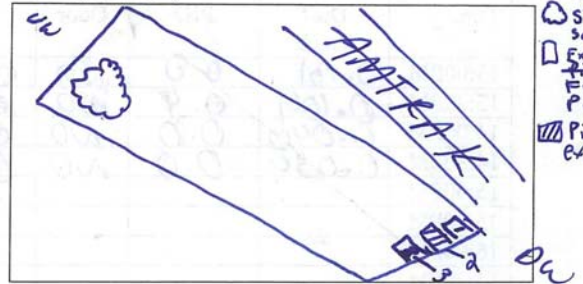
UW PID E-0040

100 ppm

DW PID

ppm

Sketch (North →)



Key

- Stockpile Soil
- Existing Piers
- Filled Piers
- Piers to be Excavated

Station	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.200	0.0	NO	0.074	0.0	NO	Moist	73°F	N/A
07:30AM	0.099	0.0	NO	0.080	0.0	NO	moist	73°F	N/A
08:00AM	0.085	0.0	NO	0.076	0.0	NO	moist	73°F	↓
08:30AM	0.083	0.0	NO	0.074	0.0	NO	moist	75°F	
09:00AM	0.125	0.0	NO	0.088	0.0	NO	moist	75°F	
09:30AM	0.105	0.0	NO	0.130	0.0	NO	moist	77°F	
10:00AM	0.115	0.0	NO	0.169	0.0	NO	moist	77°F	
10:30AM	0.096	0.0	NO	0.740	0.0	NO	moist	77°F	
11:00AM	0.124	0.0	NO	0.084	0.0	NO	@ Bedrock	78°F	
11:30AM	0.146	0.0	NO	0.126	0.2	NO	moist	80°F	
12:00PM	—	0.0	NO	—	0.0	NO	moist	80°F	
12:30PM	—	0.0	NO	—	0.0	NO	moist	80°F	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.131	0.0	NO	0.086	0.0	NO	MOIST	82°F	NA
13:30PM	0.104	0.4	NO	0.102	0.3	NO	MOIST		↓
14:00PM	0.046	0.0	NO	0.036	0.0	NO	MOIST		↓
14:30PM	0.034	0.0	NO	0.042	0.0	NO	MOIST		
15:00PM									
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

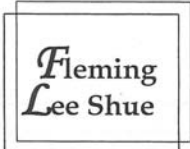
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pires

Date: 8/9/2012

Serial Number

Upwind (UW) Dust Track 004893

Downwind (DW) Dust Track E-0038

Calibration Results:

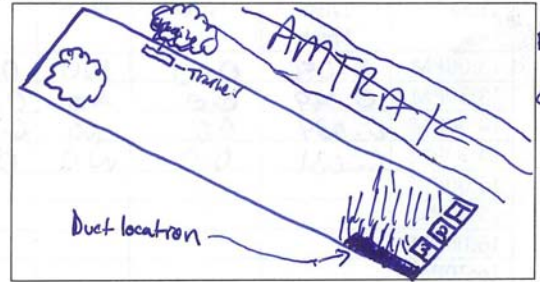
OK mg/m³

101 mg/m³

UW PID E-0040 ✓

DW PID Attempted PID would not detect Gas. ppm
ppm

Sketch (North →)



- Key
- Pires
 - Excavation + Benches
 - Stackpi Soil

Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.035	0.0	NO	0.036	0.0	NO	moist	73°F	N/A ↓
07:30AM	0.135	0.0	NO	0.109	0.0	NO	moist	73°F	
08:00AM	0.099	0.0	NO	0.067	0.0	NO	moist	75°F	
08:30AM	0.056	0.0	NO	0.035	0.0	NO	moist	75°F	
09:00AM	0.053	0.0	NO	0.077	0.0	NO	moist	77°F	
09:30AM	0.055	0.0	NO	0.049	0.0	NO	moist	77°F	
10:00AM	0.075	-	NO	0.039	-	NO	moist	76°F	
10:30AM	0.088	-	NO	0.035	-	NO	moist	78°F	
11:00AM	0.031	1.1	NO	0.065	1.6	NO	Moist/Humid	80°F	
11:30AM	0.092	0.0	NO	0.053	0.0	NO	Moist/Humid	80°F	
12:00PM	0.107	2.3	NO	0.072	3.8	NO	moist/Humid	84°F	
12:30PM	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.056	0.0	NO	0.050	0.0	NO	moist	86°F	N/A
13:30PM	0.069	0.0	NO	0.069	0.0	NO	moist	86°F	N/A
14:00PM	0.034	0.0	NO	0.063	0.0	NO	Moist	86°F	N/A
14:30PM	0.031	0.0	NO	0.045	0.0	NO	MOIST	86°F	N/A
15:00PM								86°F	N/A
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

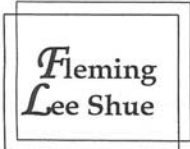
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 ^{mg/m³} ~~mcg/m³~~ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 ^{mg/m³} ~~mcg/m³~~ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pires

Date: 8/10/12

Serial Number

Upwind (UW) Dust Track 004893

Downwind (DW) Dust Track _____

Calibration Results:

OK mg/m³

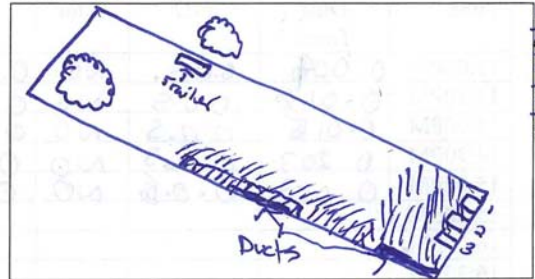
mg/m³

UW PID E-0038

DW PID _____

Would not call ppm
Calibrated @ 100 ppm
@ 11"

Sketch (North →)



Key
 [Symbol] Stockpile
 [Symbol] Excavation areas to #4
 [Symbol] Piers
 [Symbol] Ducts

Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.117	0.0.5	NO	0.117	0.0.5	NO	Very Humid	74°F	NA
07:30AM	0.086	0.0.5	NO	0.086		NO		74°F	NA
08:00AM	0.090	0.0.5	NO	0.033		YES		77°F	NA
08:30AM	0.077		NO	0.047		Slight		78°F	NA
09:00AM	0.034		NO	0.084		Slight		78°F	NA
09:30AM	0.015		NO	0.029		NO		78°F	NA
10:00AM	0.039		NO	0.028		NO	Humid.	78°F	NA
10:30AM	0.031		NO	0.079		Slight	Humid	78°F	N/A
11:00AM	0.081		NO	0.034		NO	Humid	78°F	N/A
11:30AM	0.076		NO	0.072		NO	Humid	78°F	N/A
12:00PM	0.034		NO	0.025		NO	Moist	78°F	NA
12:30PM	0.026		NO	0.026		NO	Moist	78°F	NA

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.006	0.0-S.	NO	0.006	0.0-S	NO	MOIST	78°F	N/A
13:30PM	0.016	0.0-S	NO	0.012	0.0-S	NO	MOIST	78°F	N/A
14:00PM	0.016	0.0-S	NO	0.019	0.0-S	NO	MOIST	78°F	N/A
14:30PM	0.207	0.0-S	NO	0.098	0.0	NO	MOIST	78°F	N/A
15:00PM	0.033	0.0-S	NO	0.037	0.0	N/D	MOIST		
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

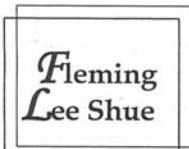
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pires

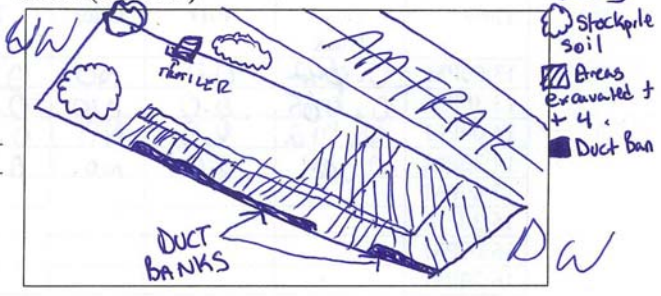
Date: 8/13/2012

Serial Number
Upwind (UW) Dust Track 004893
Downwind (DW) Dust Track _____

Calibration Results:
OK mg/m³
_____ mg/m³

UW PID 16447 _____
DW PID _____ 100.4 ppm
_____ ppm

Sketch (North →)



(15^{min} & 45^{min} minute)

Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track (:15/45 int)	DW PID (:15/45 int)	DW Odor			
07:00AM	0.087	0.0	NO	0.039	0.0	NO	—	73°F	N/A
07:30AM	0.024	0.0	NO	0.017	0.0	NO	—	73°F	↓
08:00AM	0.096	0.0	NO	0.100	0.0	NO	Conditions Normal	73°F	
08:30AM	0.067	0.0	NO	0.091	0.0	NO	—	73°F	
09:00AM	0.053	0.0	NO	0.013	0.0	NO	—	75°F	
09:30AM	0.040	0.0	NO	0.120	0.0	NO	—	78°F	
10:00AM	0.051	0.0	NO	0.011	0.0	NO	—	77°F	
10:30AM	0.014	0.0	NO	0.087	0.0	NO	—	79	
11:00AM	0.036	0.0	NO	0.097	0.0	NO	—	81°F	
11:30AM	0.149	0.0	very slight	0.301	0.0	NO	—	83°F	
12:00PM	0.034	0.0	NO	0.087	0.0	NO	—	83°F	
12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	—	84°F	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.042	0.0	NO	0.244	0.1	NO	—	84°F	N/A
13:30PM	0.065	0.0	NO	0.098	0.0	NO	—	84°F	↓
14:00PM	0.012	0.0	NO	0.037	0.0	NO	—	85°F	
14:30PM	0.004	0.0	NO	0.016	0.0	NO	—	85°F	
15:00PM									
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

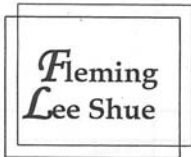
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pres

Date: 8/14/2012

Serial Number

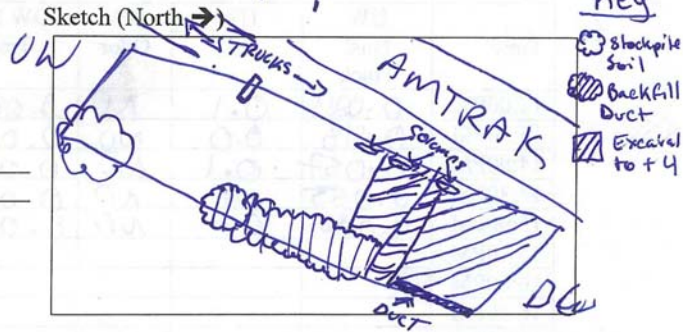
Upwind (UW) Dust Track 004893
 Downwind (DW) Dust Track _____

Calibration Results:

OK mg/m3
 _____ mg/m3

UW PID 16447
 DW PID _____

10.7 ppm
 _____ ppm



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.157	0.0	NO	0.098	0.0	NO	Loading Trucks	73°F	N/A
07:30AM	0.114	0.0	NO	0.400	0.0	NO	Loading Trucks	73°F	
08:00AM	0.103	0.0	NO	0.109	0.0	NO	—	74°F	
08:30AM	0.038	0.0	NO	0.067	0.0	NO	—	76°F	
09:00AM	0.022	0.0	NO	0.080	0.0	NO	Damp/ Moist soil	76°F	
09:30AM	0.092	0.0	NO	0.049	0.1	NO	Loading Trucks	78°F	
10:00AM	0.187	0.1	NO	0.097	0.1	NO	Loading Trucks	79°F	
10:30AM	0.074	0.1	NO	0.080	0.2	NO	—	79°F	
11:00AM	0.065	0.1	NO	0.073	0.1	NO	—	81°F	
11:30AM	0.142	0.1	NO	0.095	0.1	NO	Loading Trucks	81°F	
12:00PM	0.090	0.1	NO	0.041	0.1	NO	Loading Trucks	79°F	
12:30PM	0.027	0.1	NO	0.022	0.1	NO	Loading Trucks		

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.029	0.1	NO	0.084	0.1	NO	—	81°F	N/A
13:30PM	0.018	0.0	NO	0.063	0.0	NO	Loading Trucks	81°F	N/A
14:00PM	0.057	0.1	NO	0.098	0.1	NO	—	82°F	N/A
14:30PM	0.055	0.1	NO	0.078	0.1	NO	Loading Trucks	82°F	N/A
15:00PM	0.036	0.1	NO	0.037	0.1	NO	Loading Trucks	82°F	N/A
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

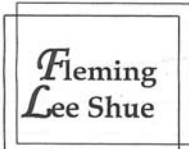
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: Bill Maniquoz

Date: 2/15/12

Serial Number

Upwind (UW) Dust Track 004893

Downwind (DW) Dust Track _____

Calibration Results:

OK mg/m³

_____ mg/m³

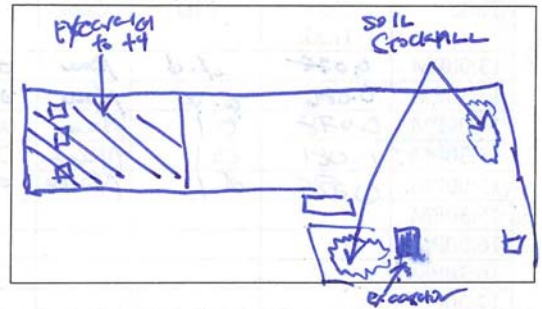
UW PID 16497

DW PID _____

100 ppm

_____ ppm

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.061	φ.φ	None	0.072	0.0	None	Housekeeping	72°	N/A
07:30AM	0.067	φ.1	None	0.029	φ.2	None	Housekeeping	72°	↓
08:00AM	0.046	φ.φ	None	0.067	0.0	None	Track loading from P1	74°	
08:30AM	0.061	φ.φ	None	0.055	φ.φ	None	" " "	74°	
09:00AM	0.047	φ.φ	None	0.074	φ.φ	None	" " "	74°	
09:30AM	0.094	φ.φ	None	0.039	φ.φ	None	" " "ambulance	76°	
10:00AM	0.036	φ.φ	None	0.044	φ.φ	None	" " "	76°	
10:30AM	0.04	φ.φ	None	0.070	φ.φ	None	" " "	78°	
11:00AM	0.054	φ.φ	None	0.010	φ.φ	None	" " "	80°	
11:30AM	0.077	0.φ	None	0.013	φ.φ	None	" " "	80°	
12:00PM	0.040	0.1	None	0.102	0.1	None	" " "	82°	
12:30PM	0.067	0.0	None	0.028	0.1	None	" " "	84°	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.078	0.1	None	0.064	0.1	None	loady fan #1002	84°	N/A
13:30PM	0.086	0.1	None	0.074	0.1	None	" " " "	84°	↓
14:00PM	0.078	0.1	None	0.069	0.1	None	" " "	84°	
14:30PM	0.081	0.1	None	0.096	0.1	None	" " "	84°	
15:00PM	0.075	0.1	No-ke	0.087	0.1	None	" " "	84°	
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action

**Fleming
Lee Shue**

Environmental Management & Consulting

DAILY CAMP

Monitor: Bill Mangus

Date: 8/16/12

Serial Number

Upwind (UW) Dust Track 004893

Downwind (DW) Dust Track _____

Calibration Results:

0 mg/m3

mg/m3

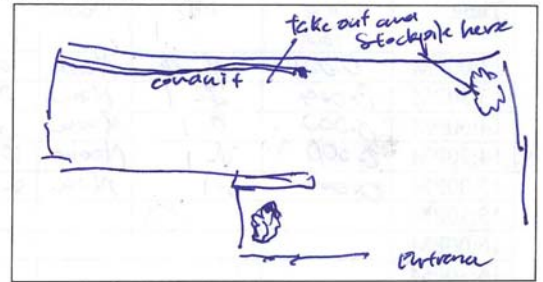
UW PID 16467

001 ppm

~~DW PID~~ _____

ppm

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.005	0.0	None	0.015	0.0	None	Moving soil from South	67°	N/A ↓
07:30AM	0.070	0.0	None	0.048	0.0	None	" " " "	67°	
08:00AM	0.100	0.0	None	0.104	0.0	None	" " " "	69°	
08:30AM	0.013	0.0	None	0.000	0.0	None	No movement	69°	
09:00AM	0.000	0.1	None	0.000	0.0	None	" "	72°	
09:30AM	0.047	0.1	None	0.035	0.2	None	opposed conduit	72°	
10:00AM	0.040	0.3	None	0.049	0.0	None	" "	74°	
10:30AM	0.033	0.0	None	0.000	0.1	None	No soil movement	76°	
11:00AM	0.048	0.7	None	0.042	0.1	None	" "	76°	
11:30AM	0.038	0.0	None	0.036	0.1	None	" "	78°	
12:00PM	0.040	P.P	None	0.040	0.1	None	" "	78°	
12:30PM	Lunch break								

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.001	0.0	None	0.019	0.1	None	No soil disturbance	82°	N/A
13:30PM	0.004	0.1	None	0.007	0.1	None	" "	82°	↑
14:00PM	0.000	0.1	None	0.000	0.1	None	" "	82°	↑
14:30PM	0.000	0.1	None	0.000	0.1	None	" "	83°	↑
15:00PM	0.000	0.1	None	0.000	0.1	None	" "	83°	X
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

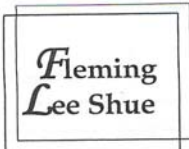
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: Rahul Bhatia

Date: 8/17/12

Serial Number

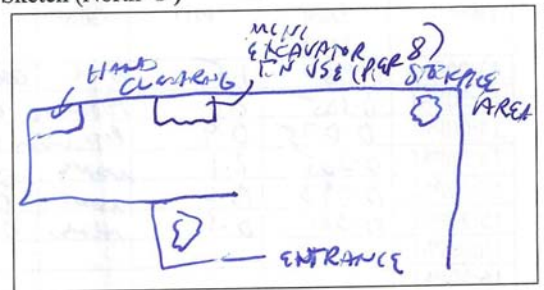
Upwind (UW) Dust Track 04893
 Downwind (DW) Dust Track ~~04893~~

Calibration Results:

0 mg/m3
100 mg/m3

UW PID 16447 ppm
 DW PID 100 ppm

Sketch (North →)



Station	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.007	0.0	NONE	0.009	0.0	NONE	HAND CLEANING ON SAILS	70	N/A
07:30AM	0.013	0.0	NONE	0.017	0.0	NONE	" "	70	↓
08:00AM	0.020	0.0	NONE	0.031	0.0	NONE	" "	70	
08:30AM	0.024	0.0	NONE	0.040	0.0	NONE	MILL EXCAVATOR BEING USED	70	
09:00AM	0.041	0.1	NONE	0.051	0.1	NONE	MILL EXCAVATOR P&S USE	71	
09:30AM	0.037	0.2	NONE	0.048	0.2	NONE	" "	72	
10:00AM	0.081	0.3	NONE	0.101	0.1	NONE	HAND CLEANING MILL EXCAVATOR	73	
10:30AM	0.071	0.1	NONE	0.065	0.0	NONE	" "	73	
11:00AM	0.102	0.2	NONE	0.075	0.2	NONE	" "	73	
11:30AM	0.081	0.1	NONE	0.033	0.2	NONE	" "	74	
12:00PM	0.075	0.1	NONE	0.059	0.2	NONE	" "	74	
12:30PM	0.062	0.0	NONE	0.105	0.2	NONE	" "	75	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.105	1.5	NONE	0.115	1.3	NONE	EXCAVATOR BACK TO USE AT PILE 5	77	N/A
13:30PM	0.105	2.1	PETROLEUM	0.100	1.4	PETROLEUM	IMPACTED SOIL FOUND AT PILE 5	78	↓
14:00PM	0.075	0.9	PETROLEUM	0.075	0.5	PETROLEUM (GAS)	" "	78	
14:30PM	0.085	2.1	NONE	0.063	1.4	NONE	SAW DUSTING/EXCAVATING AT PILE 8	79	
15:00PM	0.093	0.0	NONE	0.105	0.3	NONE	" "	82	
15:30PM	0.081	0.1	NONE	0.099	0.4	NONE	" "	82	
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action

DAILY CAMP

Monitor: T. Pires

Date: 8-20-2012

Serial Number

Upwind (UW) Dust Track 004893
Downwind (DW) Dust Track _____

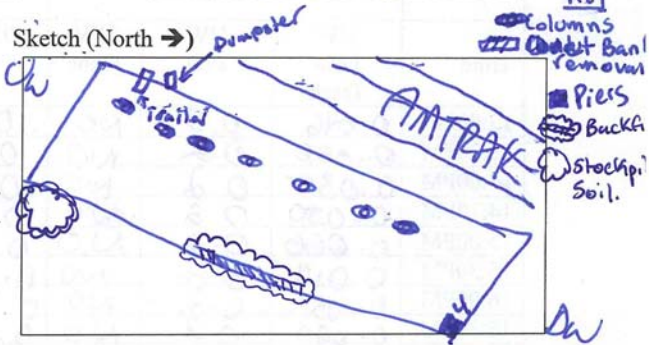
Calibration Results:

OK mg/m3
_____ mg/m3

UW PID 16447
DW PID _____

100.1 ppm
_____ ppm

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.040	0.0	NO	0.083	0.0	NO	-	67°F	N/A
07:30AM	0.052	0.0	NO	0.087	0.0	NO	-	67°F	↓
08:00AM	0.057	0.1	NO	0.064	1.8	slight	-	67°F	
08:30AM	0.047	0.1	NO	0.088	0.2	slight	Soil is moist	68°F	
09:00AM	0.016	0.2	NO	0.138	0.3	NO	-	69°F	
09:30AM	0.041	0.2	NO	0.064	0.1	NO	moist	64°F	
10:00AM	0.042	0.2	NO	0.072	0.2	NO	-	70°F	
10:30AM	0.019	0.4	NO	0.091	0.3	NO	Moist (Pier 4)	70°F	
11:00AM	0.054	0.2	NO	0.074	0.2	NO	Pier 4 excavation	71°F	
11:30AM	0.027	0.2	NO	0.146	0.3	NO	"	71°F	
12:00PM	0.034	0.2	NO	0.188	1.0	NO	"	73°F	
12:30PM	0.039	0.2	NO	0.044	0.2	NO	"	73°F	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.096	0.3	NO	0.098	0.2	NO	Excavation Pier 4	75°F	N/A
13:30PM	0.086	0.2	NO	0.079	0.2	NO	" "	75°F	↓
14:00PM	0.035	0.2	NO	0.058	0.3	NO	" "	77°F	
14:30PM	0.050	0.2	NO	0.061	0.3	NO	" "	77°F	
15:00PM	0.060	0.2	NO	0.080	0.3	NO	" "	78°F	
15:30PM	0.019	0.2	NO	0.053	0.3	NO	" "	78°F	
16:00PM	0.032	0.2	NO	0.087	0.4	NO	" "	76°F	
16:30PM	0.028	0.2	NO	0.066	0.2	NO	" "	76°F	
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action

**Fleming
Lee Shue**

Environmental Management & Consulting

DAILY CAMP

Monitor: T. Pires

Date: 8-21-2012

Serial Number

Upwind (UW) Dust Track 004893

Downwind (DW) Dust Track _____

Calibration Results:

OK mg/m3

mg/m3

UW PID

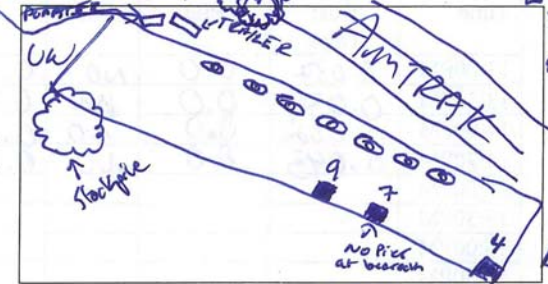
16447

100.8 ppm

DW PID

ppm

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.034	0.0	NO	0.044	0.0	NO	—	66°F	N/A
07:30AM	0.022	0.0	NO	0.039	0.4	NO	—	66°F	↓
08:00AM	0.014	0.0	NO	0.043	0.0	NO	Pier 7 work	68°F	
08:30AM	0.049	0.1	NO	0.042	0.0	Slight	—	68°F	
09:00AM	0.029	0.0	NO	0.051	0.2	NO	—	70°F	
09:30AM	0.019	0.0	NO	0.068	0.0	Slight	Pier 9 excavation	70°F	
10:00AM	0.019	0.0	NO	0.051	0.0	Slight	Pier 9 excavation	73°F	
10:30AM	0.031	0.0	NO	0.074	0.0	Slight-Med	Pier 9 excavation	73°F	
11:00AM	0.014	0.0	NO	0.088	0.0	Slight-Med	Pier 9 work	76°F	
11:30AM	0.008	0.0	NO	0.073	0.0	" "	" "	76°F	
12:00PM	0.051	0.0	NO	0.041	0.0	" "	" "	78°F	
12:30PM	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	78°F	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.037	0.0	NO	0.040	0.0	NO	—	82°F	N/A
13:30PM	0.039	0.0	NO	0.075	0.0	NO	—	82°F	↓
14:00PM	0.082	0.0	NO	0.117	0.0	NO	—	83°F	
14:30PM	0.043	0.0	NO	0.046	0.0	NO	—	83°F	
15:00PM								83°F	
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

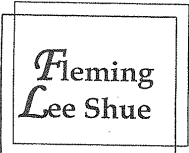
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: Raphael Rosenbaum

Date: 8/22/12

Serial Number

Upwind (UW) Dust Track 04893

Downwind (DW) Dust Track _____

Calibration Results:

OKAY mg/m3

_____ mg/m3

UW PID (700) 16447

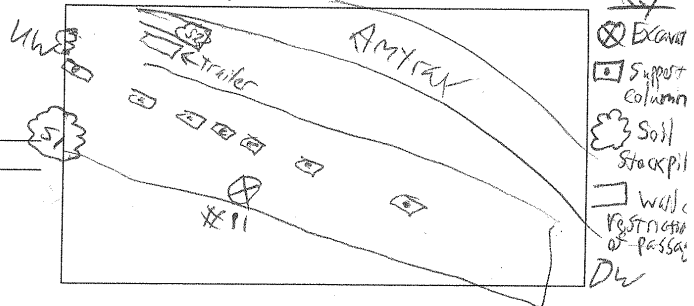
100 ppm

DW PID (1045) _____

101.2 ppm

Raining

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	.018	0.0	NO	.032				76°	—
07:30AM	.013	0.0	NO	.008				76°	—
08:00AM	.000	0.0	NO	.000				76°	—
08:30AM	.000	0.0	NO	.043	0.0	NO		76°	—
09:00AM	.021	0.0	NO	.008	0.1	NO		76°	—
09:30AM	.034	0.0	NO	.082	0.1	NO	Slight odor at Pier #11	76°	—
10:00AM	.037	0.2	NO	.045	0.1	NO		77°	—
10:30AM	.014	0.2	NO	.130	0.2	NO	odor caused by excavator exhaust	77°	—
11:00AM	.000	0.0	YES	.064	0.0	NO	odor from Stockpile #2	78°	—
11:30AM	.005	0.0	NO	.761	0.0	NO	DW Particulates exhaust related	79°	—
12:00PM	.000	0.0	NO	.051	0.0	NO		79°	—
12:30PM	.006	0.0	NO	.036	0.0	NO		79°	—

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	.004	0.0	NO	.078	0.0	NO	Pier #11 Excavation	79°	---
13:30PM	.003	0.0	NO	.050	0.0	NO	" "	78°	---
14:00PM	.019	0.0	NO	.035	0.0	NO	" "	78°	---
14:30PM	.006	0.0	NO	.044	4.6	Yes	Backfilling Pier #11	78°	---
15:00PM	N/A	N/A	N/A	.218	0.0	NO	Re-sharing Pier #11 excavation	77°	---
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

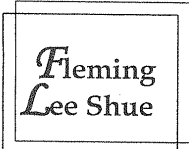
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

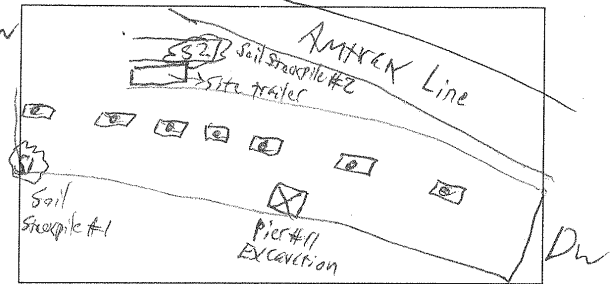
DAILY CAMP

Monitor: Raphael Rosenbaum

Date: 8/23/12

Serial Number
 Upwind (UW) Dust Track 04893 OK Calibration Results: mg/m3
 Downwind (DW) Dust Track _____ mg/m3
 UW PID 16447 101.1 ppm
 DW PID _____ ppm

Sketch (North →)



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	.042	0.0	NO	.065	0.0	NO	Setup	76°	—
07:30AM	.043	0.0	NO	.075	0.0	NO	Begin re-sharing Pier #11	76°	—
08:00AM	.053	0.0	NO	.096	0.1	NO	" "	76°	—
08:30AM	.034	0.1	NO	.074	0.2	NO	" "	79°	—
09:00AM	.037	0.0	NO	.075	0.2	NO	Excavating Pier #11	77°	—
09:30AM	.045	0.0	NO	.075	0.2	NO	" "	78°	—
10:00AM	.070	0.0	NO	.080	0.1	NO	" "	78°	—
10:30AM	.047	0.1	NO	.073	0.2	NO	" "	79°	—
11:00AM	.051	0.1	NO	.067	0.2	NO	" "	79°	—
11:30AM	—	N/A	—	.042	0.4	NO			—
12:00PM	.034	0.2	NO	.065	0.4				
12:30PM	.011	0.2	NO	.068	0.4				

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	.031	0.2	NO	.061	0.4	NO	" "	80°	—
13:30PM	.043	0.2	NO	.099	0.5	NO	" "	80°	—
14:00PM	.021	0.2	NO	.062	0.2	NO	" "	80°	—
14:30PM	.026	0.2	NO	.049	0.2	NO	" "	80°	—
15:00PM	.020	0.2	NO	.065	0.3	NO	" "	81°	—
15:30PM	.018	0.2	NO	.033	0.3	NO	" "	81°	—
16:00PM	.018	0.2	NO	.028	0.2	NO	" "	81°	—
16:30PM	.016	0.2	NO	.039	0.2	NO	" "	80°	—
17:00PM	.059	0.2	NO	.044	0.2	NO	" "	80°	—

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

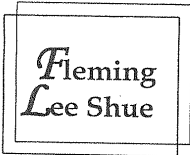
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

DAILY CAMP

Monitor: Raphael Rosenbaum

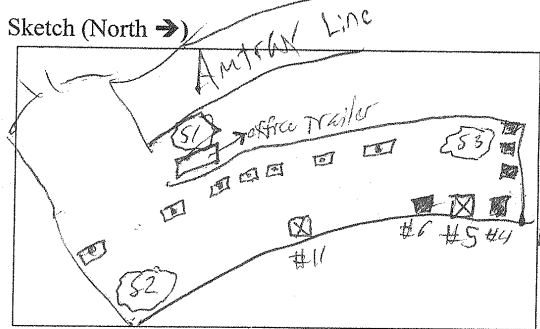
Date: 8/24/12

Raining
Serial Number
Upwind (UW) Dust Track 04893
Downwind (DW) Dust Track _____

Raining
UW-PID 16447
DW PID _____

Calibration Results:
_____ mg/m3
_____ mg/m3
_____ ppm
_____ ppm

Sketch (North →)



- Key
- Complete Piers
 - Excav. Piers
 - Soil Stockpile
 - Support Column
 - 11 Site ga.

Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	.045	0.1	NO	.085	1.5	NO	Pier #11 forming	77°	—
07:30AM	.041	0.1	NO	.091	1.2	NO	" "	77°	—
08:00AM	.060	0.1	NO	.088	0.1	NO	" "	77°	—
08:30AM	.024	0.1	NO	.055	0.4	NO	Backfilling around #11	77°	—
09:00AM	.027	0.1	NO	.065	0.7	YES	" "	79°	—
09:30AM	.032	0.1	NO	.113	0.5	NO	" "	77°	—
10:00AM	.044	0.1	NO	.095	0.5	NO	" "	78°	—
10:30AM	.165	1.0	YES	.050	0.3	NO	" "	78°	—
11:00AM	.057	0.2	NO	.046	0.1	NO	" "	79°	—
11:30AM	.082	0.2	NO	.045	0.2	NO	Pier #5 work	80°	—
12:00PM	.023	0.4	NO	.038	0.4	NO	Pier #5 Excavation	80°	—
12:30PM	.014	0.4	NO	.032	0.6	NO	" "	80°	—

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	.051	0.3	NO	.071	0.4	NO	Erking Post # 5	81°	—
13:30PM	.063	0.3	NO	.087	0.6	NO		81°	—
14:00PM	.040	0.4	NO	.051	0.5	NO		82°	—
14:30PM	.022	0.6	NO	.095	0.5	NO		82°	—
15:00PM									
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

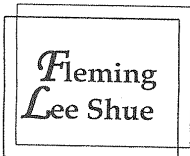
1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action



Environmental Management & Consulting

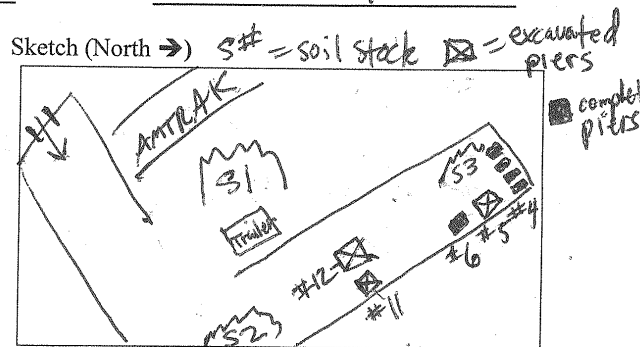
DAILY CAMP

Monitor: Abdullah, Syfyar

Date: 8-25-12

Serial Number
 Upwind (UW) Dust Track 04893
 Downwind (DW) Dust Track _____
 UW PID 16449
 DW PID _____

Calibration Results:
~~04893~~ mg/m3
~~16449~~ 100 ppm
 ppm



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM									
07:30AM									
08:00AM									
08:30AM	.057	0.1	None	.066	0.1	None		72°	—
09:00AM	.062	0.2	None	.077	0.5	None		72°	—
09:30AM	.049	0.1	None	.052	0.3	None		72°	—
10:00AM	.041	0.1	None	.047	0.2	None		72°	—
10:30AM	.049	0.7	None	.089	1.0	None		73°	—
11:00AM	.052	0.2	None	.062	0.6	None		73°	—
11:30AM	.042	0.1	None	.057	0.7	None		73°	—
12:00PM	.061	0.1	None	.062	0.1	None		75°	—
12:30PM	.050	0.1	None	.053	1.4	None		75°	↙

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	.042	0.2	None	.056	0.5	None		80°	—
13:30PM	.046	0.2	None	.058	0.6	None		80°	—
14:00PM	.056	0.1	None	.064	0.6	None		80°	—
14:30PM	.049	0.3	None	.051	1.2	None		80°	—
15:00PM	.052	0.2	None	.061	0.7	None		80°	—
15:30PM									
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: Peter Helseth
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action

**Fleming
Lee Shue**

Environmental Management & Consulting

DAILY CAMP

Monitor: T. P. RES

Date: 8-27-2012

Serial Number

Upwind (UW) Dust Track 04893

Downwind (DW) Dust Track _____

Calibration Results:

OK mg/m³

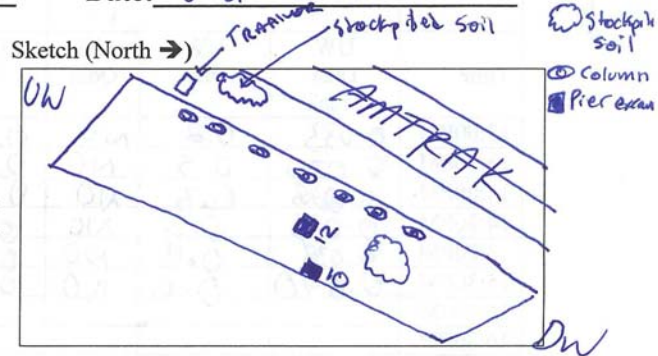
mg/m³

UW PID 16477

100.0 ppm

DW PID _____

ppm



Station Time	Upwind			Downwind			Comments	Temp	Wind Direction
	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
07:00AM	0.047	0.0	NO	0.061	0.0	NO	—	72°F	N/A
07:30AM	0.035	0.0	NO	0.024	0.0	NO	—	72°F	↓
08:00AM	0.009	0.0	NO	0.022	0.1	NO	Pier 12	72°F	
08:30AM	0.006	0.1	NO	0.013	0.1	NO	" "	72°F	
09:00AM	0.007	0.1	NO	0.039	0.2	NO	" "	72°F	
09:30AM	0.010	0.1	NO	0.034	0.1	NO	—	72°F	
10:00AM	0.031	0.1	NO	0.028	0.1	NO	—	73°F	
10:30AM	0.028	0.1	NO	0.025	0.1	slight	Pier 10 arrow	73°F	
11:00AM	0.003	0.1	NO	0.024	0.5	slight	Pier 10	75°F	
11:30AM	0.044	0.5	NO	0.060	0.3	slight	Pier 10	75°F	
12:00PM	0.026	0.5	NO	0.043	0.3	slight	Pier 10	77°F	
12:30PM	0.032	0.2	NO	0.106	0.5	slight	Pier 10	77°F	

Station	Upwind			Downwind			Comments	Temp	Wind Direction
Time	UW Dust Track	UW PID	UW Odor	DW Dust Track	DW PID	DW Odor			
13:00PM	0.033	0.2	NO	0.027	0.4	Moderate	Pier 10	73°F	N/A
13:30PM	0.030	0.3	NO	0.027	0.7	Moderate	Pier 10	73°F	↓
14:00PM	0.028	0.3	NO	0.027	0.6	Slight	Pier 10	79°F	
14:30PM	0.023	0.5	NO	0.032	0.3	Moderate	Pier 10	79°F	
15:00PM	0.038	0.4	NO	0.024	0.5	Slight	Pouring Concrete 10' + cap 10'	80°F	
15:30PM	0.040	0.6	NO	0.032	1.3	Slight	—	80°F	
16:00PM									
16:30PM									
17:00PM									

FLS Contact Person: ~~Peter Helseth~~ Kevin McGinness
212-675-3225

VOCs > 5ppm over 15-Min Average:

1. Work activities temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates > 100 mcg/m³ or Particulates Leaving Work Area:

1. Invasive soil disturbing work temporarily halted.
2. Apply dust suppression measures.

Downwind Particulates > 150 mcg/m³ over 15-min Average:

1. Invasive activities will cease pending actions below.
2. Promptly notify FLS contact person.
3. Identify source of particulate emission and apply corrective action

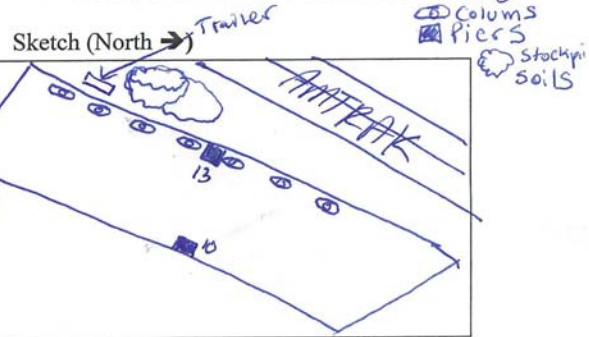
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 8-28-2012 Key

Serial Number
Roaming PID 16447
Roaming Dust Trak 64893

Calibration Results:
100.9 ppm
OK mg/m³



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Weather: Rain/Cloudy
H: 86°F L: 66°F

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.017	0.0	NO	—	N/A	13:00PM	0.098	0.7	Slight	Pier 13	↓
07:30AM	0.012	0.0	NO	—	N/A	13:30PM	0.079	0.4	Slight	Pier 13	
08:00AM	0.019	0.3	Slight	Pier 10	N/A	14:00PM	0.117	0.4	Slight	Pier 13	
08:30AM	0.030	0.4	Slight	" "	N/A	14:30PM	0.083	0.4	Slight	Pier 13	
09:00AM	0.016	0.2	Slight	—	N/A	15:00PM	0.086	0.3	Slight	Pier 13	
09:30AM	0.026	0.5	Slight	—	N/A	15:30PM	0.146	0.3	Slight	Pier 13	
10:00AM	0.067	1.8	Slight	—	N/A	16:00PM	0.054	0.2	NONE	Pier 13	
10:30AM	0.023	1.1	Slight	Pier 13	N/A	16:30PM	0.084	0.3	NONE	PIER 13	
11:00AM	0.046	0.3	NO	Pier 13	N/A	17:00PM					
11:30AM	0.066	0.2	NO	" "	N/A	17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

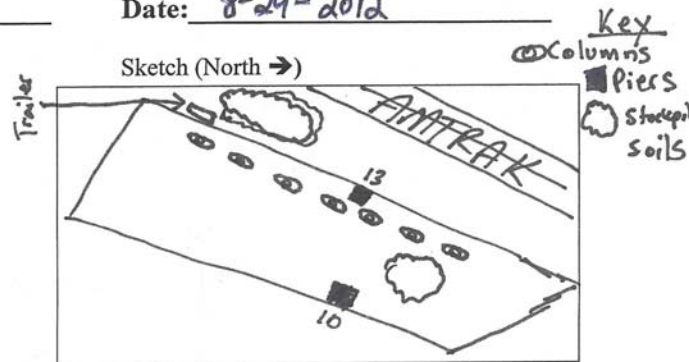
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 8-29-2012

Serial Number
Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:
100.0 ppm
OK mg/m³



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM							0.082	3.1	slight-mod	Pier 10	N/A
06:30AM							0.094	0.2	NO		
07:00AM	0.022	0.0	NO	-	N/A		0.114	0.5	Slight	Pier 10 examine	
07:30AM	0.031	0.0	NO	-			0.064	0.5	Slight	" "	
08:00AM	0.057	0.0	NO	Pier 13			0.086	0.7	Slight	" "	
08:30AM	0.085	1.5	Slight	Back filling 13 from 10			0.144	0.0-7.3	moderate	" "	
09:00AM	0.097	0.1	NO	Pier 10			0.050	0.0-1.3	Slight	Pier 10	
09:30AM	0.062	0.4	Slight				0.069	0.8	Slight	Pier 10	
10:00AM	0.075	1.4	Slight	Pier 10			0.104	1.7	Slight	Pier 10	
10:30AM	0.049	0.4	Slight	" "			0.016	0.0	NO	Pier 10	
11:00AM	0.043	0.5	Slight	" "			0.072	0.2	NO	" "	
11:30AM	0.077	0.4	NO	" "							

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 8-30-2012

Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

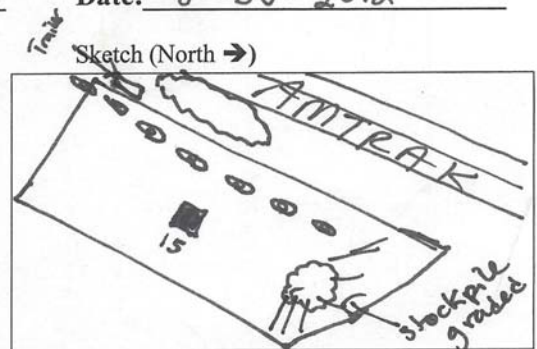
100.7 ppm
OK mg/m³

VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.



Station		Roaming Monitor										
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction	
06:00AM												
06:30AM												
07:00AM	0.011	0.0	NO	—	N/A	12:00PM	0.052	0.1	NO	—	N/A	
07:30AM	0.013	0.0	NO	—		12:30PM	0.077	0.2	NO	—		
08:00AM	0.065	0.3	NO	Pier 15		13:00PM	0.043	0.3	NO	—		
08:30AM	0.072	0.3	NO	" "		13:30PM	0.057	0.7	NO	—		
09:00AM	0.055	0.1	NO	" "		14:00PM	0.068	0.3	NO	—		
09:30AM	0.035	0.3	NO	" "		14:30PM	0.047	0.3	NO	—		
10:00AM	0.057	0.2	NO	" "		15:00PM	0.035	0.3	NO	—		
10:30AM	0.638	0.1	NO	" "		15:30PM						
11:00AM	0.092	0.3	NO	" "		16:00PM						
11:30AM	0.069	0.2	NO	" "		16:30PM						
						17:00PM						
						17:30PM						

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. PICES

Date: 8/31/12

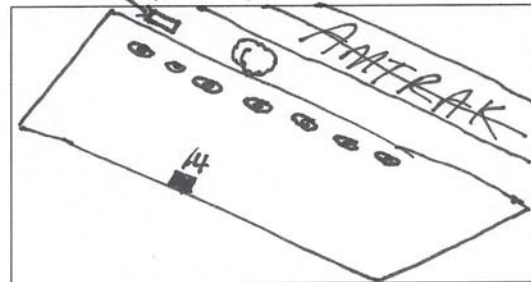
Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

100.0 ppm
OK mg/m³

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.019	0.1	Slight	Truck loading	N/A	12:00PM	0.076	0.1	NO	Pier 14	N/A
07:30AM	0.066	0.2	Slight	" "		12:30PM	0.027	0.2	NO	Truck loading	
08:00AM	0.177	0.6	NO	Pier 14		13:00PM	0.065	0.4	NO	Pier 14	
08:30AM	0.078	0.5	NO	Pier 14		13:30PM	0.054	0.2	NO	Pier 14	
09:00AM	0.067	0.1	NO	Pier 14		14:00PM	0.053	0.6	NO	Pier 14	
09:30AM	0.071	0.1	NO	Pier 14		14:30PM	0.098	1.7	NO	Pier 14	
10:00AM	0.029	0.1	NO	Pier 14		15:00PM	0.044	0.4	NO	Pier 14	
10:30AM	0.080	0.3	NO	Pier 14		15:30PM	0.042	0.2	NO	Pier 14	
11:00AM	0.038	0.1	NO	" "		16:00PM					
11:30AM	0.057	0.2	NO	" "		16:30PM					
						17:00PM					
						17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-4-2012

Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

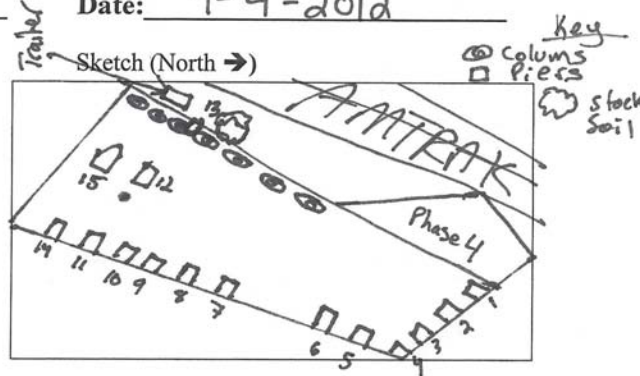
100.0 ppm
OK mg/m3

VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.



Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.078	0.0	NO	-	N/A	12:00PM	0.004	0.2	NO	-	N/A
07:30AM	0.057	0.0	NO	-		12:30PM	0.035	0.2	NO	-	
08:00AM	0.098	0.1	NO	-		13:00PM	0.024	0.3	NO	-	
08:30AM	0.080	0.6	NO	-		13:30PM	0.023	0.3	NO	-	
09:00AM	0.030	0.1	NO	-		14:00PM	0.041	0.3	NO	-	
09:30AM	0.024	0.1	NO	-		14:30PM	0.022	0.3	NO	-	
10:00AM	0.053	0.2	NO	-		15:00PM	0.070	0.3	NO	-	
10:30AM	0.033	0.2	NO	-		15:30PM					
11:00AM	0.026	0.2	NO	-		16:00PM					
11:30AM	0.017	0.2	NO	-		16:30PM					
						17:00PM					
						17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. Pines

Date: 9-5-2012

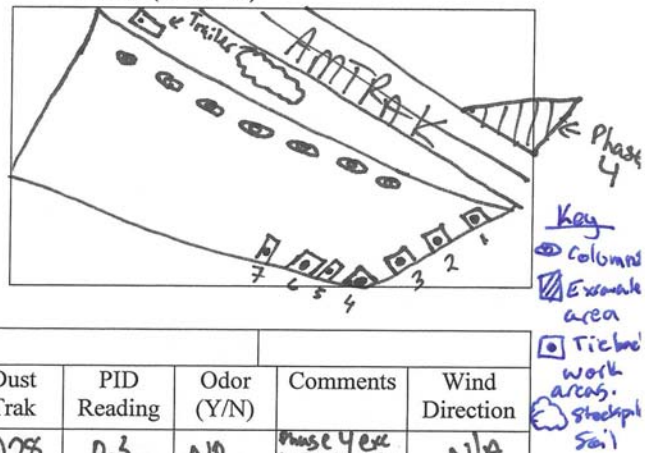
Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

100.0 ppm
OK mg/m³

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.011	0.0	NO	-	N/A		0.028	0.3	NO	Phase 4 Exc + Tiebacks	N/A
07:30AM	0.014	0.0	NO	-			0.059	0.4	NO	" "	
08:00AM	0.051	0.3	NO	Tie Backs			0.057	0.4	NO	" "	
08:30AM	0.060	0.2	NO	" "			0.010	0.4	NO	" "	
09:00AM	0.041	0.3	NO	" "			0.047	0.8	NO	" "	
09:30AM	0.040	0.3	NO	" "			0.052	0.5	NO	" "	
10:00AM	0.038	0.3	NO	" "			0.049	0.3	NO	" "	↓
10:30AM	0.044	0.3	NO	Phase 4 + Tie Back							
11:00AM	0.061	0.5	NO	" "							
11:30AM	0.093	0.8	NO	" "							

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

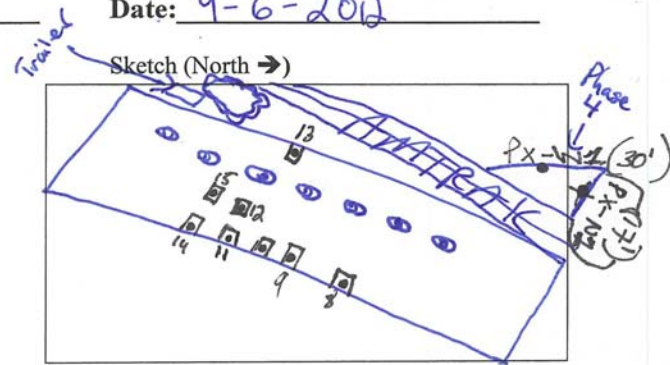
Date: 9-6-2012

Serial Number

Roaming PID 16447
Roaming Dust Trak 04993

Calibration Results:

100.0 ppm
OK mg/m³



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.050	0.2	NO	Backfilling Tie+Boards	N/A
06:30AM						12:30PM	0.061	0.3	NO	" "	N/A
07:00AM	0.027	0.0	NO	Installing sockets for tie bars	N/A	13:00PM	0.083	0.3	NO	" "	N/A
07:30AM	0.058	0.0	NO	" "		13:30PM	0.046	0.5	NO	" "	N/A
08:00AM	0.049	0.6	NO	" "		14:00PM	0.027	0.3	NO	" "	N/A
08:30AM	0.045	0.1	NO	" "		14:30PM	0.029	0.5	NO	" "	N/A
09:00AM	0.008	0.2	NO	Installing sockets for tie bars		15:00PM	0.042	0.5	NO	" "	
09:30AM	0.014	0.2	NO	" "		15:30PM					
10:00AM	0.043	0.2	NO	" "		16:00PM					
10:30AM	0.044	0.3	NO	Backfilling Phase 4		16:30PM					
11:00AM	0.304	0.2	NO	" "		17:00PM					
11:30AM	0.023	0.2	NO	Backfilling & Ties		17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-7-2012

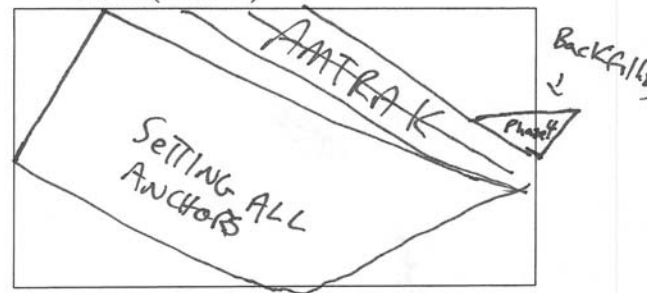
Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

99 ppm
OK mg/m³

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.018	0.0	NO	—	N/A						
07:30AM	0.081	0.1	NO	—	↓						
08:00AM	0.074	0.0	NO	—							
08:30AM	0.034	0.0	NO	—							
09:00AM	0.027	0.0	NO	—							
09:30AM	0.013	0.0	NO	—							
10:00AM	0.016	0.3	NO	—							
10:30AM	0.033	0.8	NO	—							
11:00AM	0.056	1.1	NO	—							
11:30AM	0.037	0.5	NO	—							

FLS Contact Person: Kevin McGuinness 212-675-3225

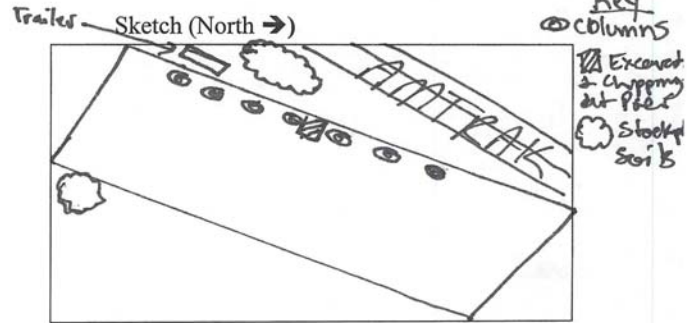
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-10-2012

Serial Number _____
Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:
100.00 ppm
OK mg/m³



- VOCs > 5ppm over 15-Min Average:
1. Invasive soil disturbing work temporarily halted.
 2. Promptly notify FLS contact person.
 3. Identify source of VOC levels and apply corrective actions
 4. Work will only resume after levels have fallen below 5ppm

- Downwind Particulates Observed or Particulates Leaving Work Area:
1. Work activities temporarily halted
 2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.082	0.0	NO	-	N/A	13:00PM	0.048	0.1	NO	-	N/A
07:30AM	0.054	0.0	NO	-		13:30PM	0.062	0.1	NO	-	
08:00AM	0.020	0.1	NO	-		14:00PM	0.044	0.1	NO	-	
08:30AM	0.021	0.0	NO	-		14:30PM	0.017	0.0	NO	-	
09:00AM	0.013	1.4	NO	-		15:00PM	0.081	0.0	NO	-	
09:30AM	0.047	0.2	NO	-		15:30PM	0.092	0.0	NO	-	
10:00AM	0.052	0.2	NO	-		16:00PM					
10:30AM	0.047	0.2	NO	-		16:30PM					
11:00AM	0.045	0.1	NO	-		17:00PM					
11:30AM	0.024	0.1	NO	-		17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

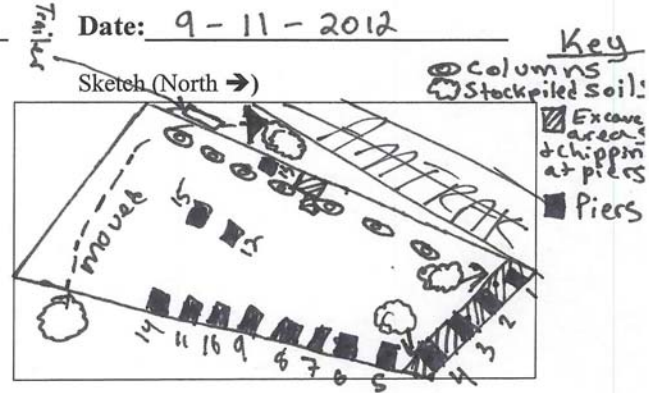
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-11-2012

Serial Number
Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:
100.0 ppm
OK mg/m³



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.069	0.0	NO	-	N/A
06:30AM						12:30PM	0.053	0.4	NO	-	
07:00AM	0.038	0.0	NO	-	N/A	13:00PM	0.047	0.0	NO	-	
07:30AM	0.063	0.0	NO	-		13:30PM	0.030	0.0	NO	-	
08:00AM	0.068	0.5	Slight	slight odor from location spray		14:00PM	0.092	0.4	NO	-	
08:30AM	0.014	0.2	NO	-		14:30PM	BATT	0.3	NO	-	
09:00AM	0.076	0.3	NO	-		15:00PM					
09:30AM	0.039	0.2	NO	-		15:30PM					
10:00AM	0.085	0.4	NO	-		16:00PM					
10:30AM	0.091	0.0	NO	-		16:30PM					
11:00AM	0.102	0.0	NO	-		17:00PM					
11:30AM	0.107	0.0	NO	-		17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

DAILY CAMP
Moinian 34th Street

Monitor: T. PILES

Date: 9-12-2012

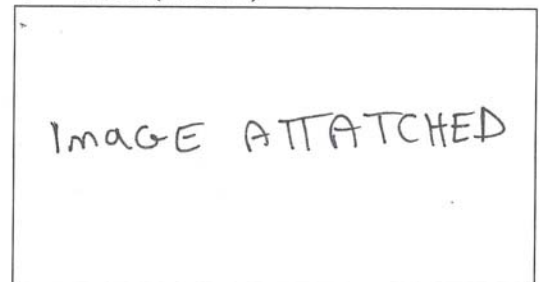
Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

100.0 ppm
OK mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

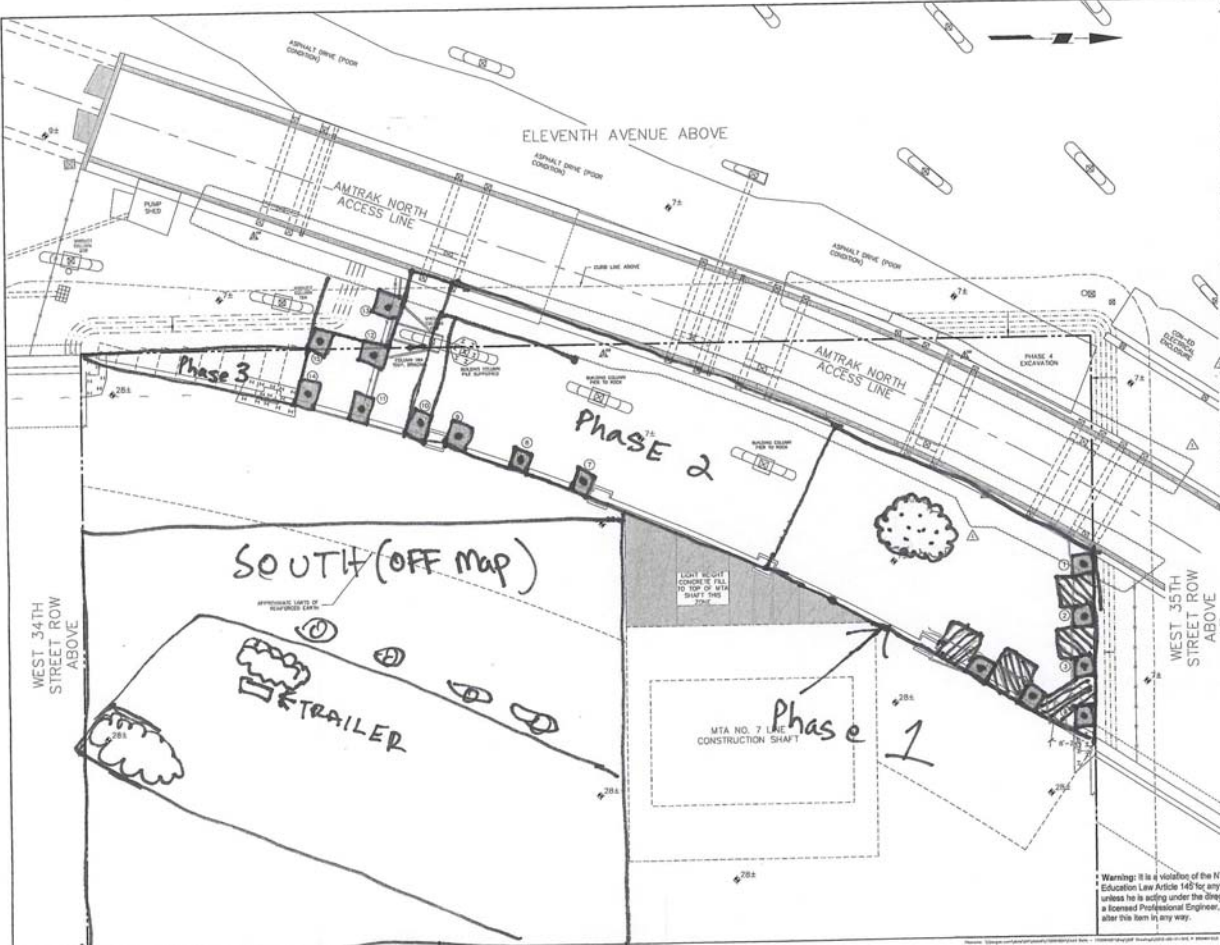
1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	Lunch	Lunch	Lunch	Lunch	N/A
06:30AM						12:30PM	0.042	0.1-2.2	Slight	Excavation	
07:00AM	0.072	0.0	NO	-	N/A	13:00PM	0.086	0.1-2.0	Slight	Excavation	
07:30AM	0.045	0.0	NO	-		13:30PM	0.045	0.2-0.9	Slight	" "	
08:00AM	0.089	0.4	NO	-		14:00PM	0.061	0.2-0.9	Slight	" "	
08:30AM	0.092	0.5	Slight	Lock down of tie backs		14:30PM	BATT	0.0-1.5	Slight	" "	
09:00AM	0.022	0.5	NO	" "		15:00PM					
09:30AM	0.056	0.5	NO	Phase 1 done		15:30PM					
10:00AM	0.065	0.1	NO	Phase 1 exc		16:00PM					
10:30AM	0.012	0.1	NO	" "		16:30PM					
11:00AM	0.056	0.0-1.1	NO	" "		17:00PM					
11:30AM	0.074	0.0-0.4	NO	" "	↓	17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9-12-12

Key
 [] Locked tiebacks
 [] Finished Piers.
 [] Areas excavate and or show lower VOCs



LEGEND

- PERSONAL OBSERVATION
- SURVEY MONITORING POINT FOR VERTICAL AND LATERAL MOVEMENT
- CONDUIT PER DESIGNATION
- ELEV APPROXIMATE GRADE SURFACE DESIGNATION

MONITORING NOTES

1. REFER TO SEE-02 FOR MONITORING NOTES.

2. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AS SHOWN IN CONSULTATION WITH THE CONTRACTOR'S SUPERVISOR AND MONITORING ENGINEER. ONLY A MONITORING POINT WITH A MONITORING RECORD SHALL BE CONSIDERED AN ACTIVE MONITORING POINT. MONITORING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER.

3. MONITORING RECORDS FOR MONITORING POINTS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER. MONITORING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER.

4. MONITORING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER. MONITORING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER.

5. MONITORING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER. MONITORING RECORDS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT AND FOR 10 YEARS THEREAFTER.

Date	Author	Description	No.
2-11-12	SOE	Comments	1
2-10-12	AS	Initial Comments	2

WANG CHALLNER
 PROFESSIONAL ENGINEER NY LIC. NO. 87888A

ELANGAN
 21 Park Place
 200 West 34th Street, 6th Floor
 New York, NY 10018-3217
 P: 212-633-6300 F: 212-633-6344
 www.elangan.com

Project: **MOIANIAN SITE P**
 535 WEST 34TH STREET NEW YORK

Drawing Title: **MONITORING PLAN**

Project No. 12000000	Drawing No.
Date: 03-20-11	Scale: AS SHOWN
Drawn By: SS	SOE-106.00
Check/Reviewed: 04-10-12	CS

Warning: It is a violation of the NYS Education Law Article 140 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

Key
 [] Stockpiled soil (Hi VOC)
 [] Columns → N

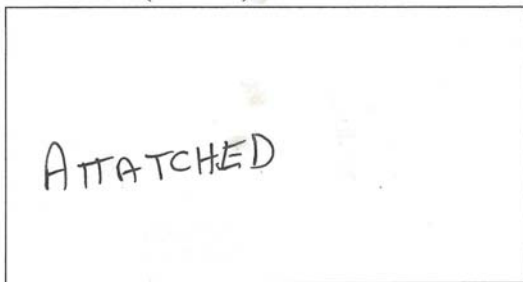
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-13-12

Serial Number
Roaming PID 16447 Calibration Results: 100.0 ppm
Roaming Dust Trak 04893 OK mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

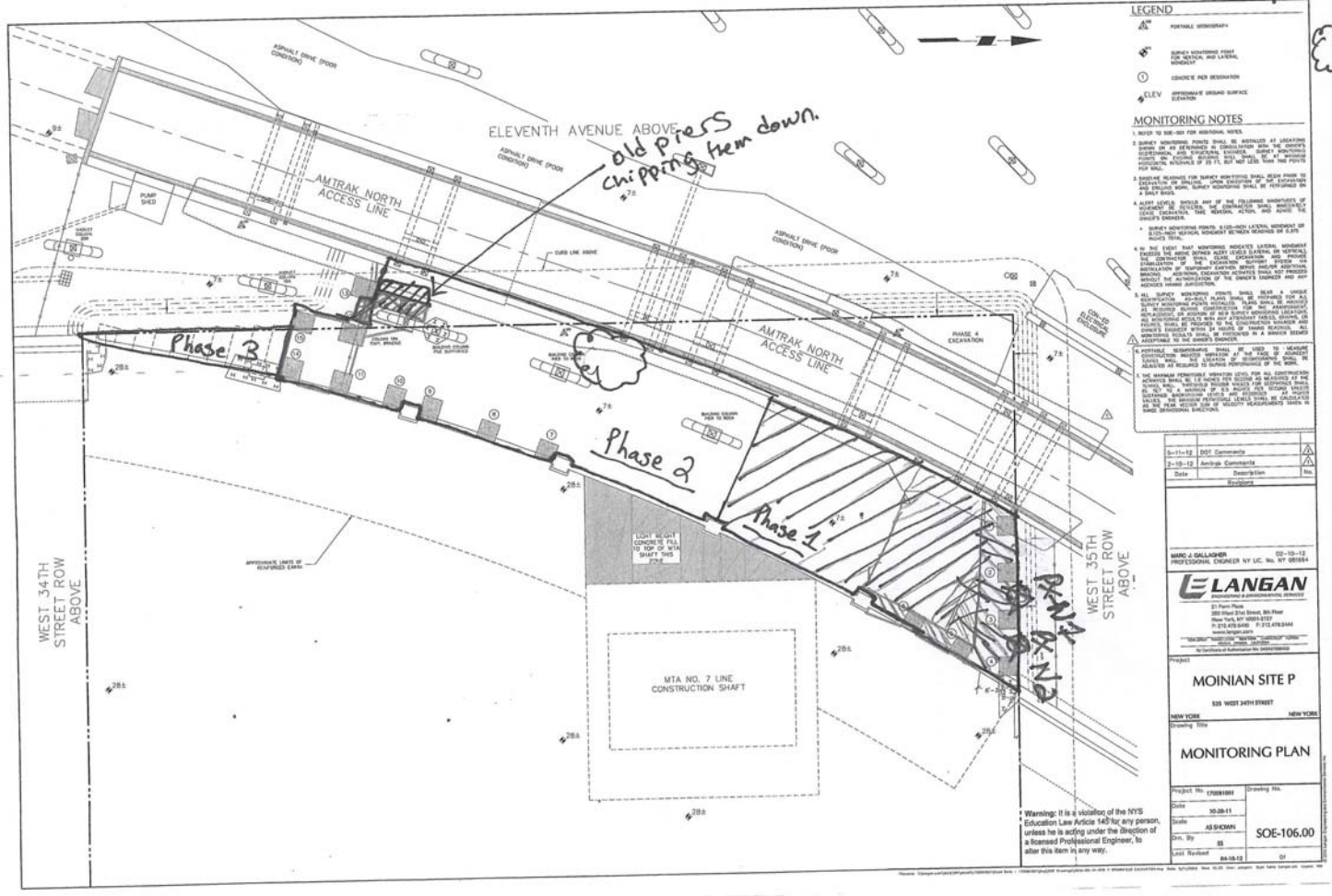
1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.009	0.0	NO	—	N/A
06:30AM						12:30PM	0.048	0.0	NO	—	
07:00AM	0.182	0.0	NO	—	N/A	13:00PM	0.092	0.0	NO	—	
07:30AM	0.085	0.0	NO	—		13:30PM	0.087	0.0	NO	—	
08:00AM	0.043	0.2	NO	—		14:00PM	0.093	0.0	NO	—	
08:30AM	0.212	0.0-0.4	NO	—		14:30PM	BATT	0.0	NO	—	
09:00AM	0.014	0.0	NO	—		15:00PM	BATT	0.0-0.3	Slight	—	
09:30AM	0.670	0.0	NO	advised to wet saw		15:30PM					
10:00AM	0.049	0.0	NO	—		16:00PM					
10:30AM	0.096	0.0	NO	—		16:30PM					
11:00AM	0.013	0.0	NO	—		17:00PM					
11:30AM	0.005	0.0	NO	—		17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9/13/2012

KEY
 ▨ Excavated areas.
 ⊗ Endpoint samples
 ☁ Stockpile Soil



LEGEND

- ▨ EXCAVATED AREAS
- ⊗ ENDPOINT SAMPLES
- ☁ STOCKPILE SOIL

MONITORING NOTES

- REFER TO SHEET FOR ADDITIONAL NOTES.
- MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THIS DRAWING. MONITORING POINTS SHALL BE INSTALLED AT A DEPTH OF 30 FT, BUT NOT LESS THAN THE POINT OF ENTRY.
- MONITORING POINTS SHALL BE INSTALLED AT A DEPTH OF 30 FT, BUT NOT LESS THAN THE POINT OF ENTRY.
- MONITORING POINTS SHALL BE INSTALLED AT A DEPTH OF 30 FT, BUT NOT LESS THAN THE POINT OF ENTRY.
- MONITORING POINTS SHALL BE INSTALLED AT A DEPTH OF 30 FT, BUT NOT LESS THAN THE POINT OF ENTRY.

Date	By	Description
2-11-12	MOI	Comments
2-10-12	AMTRAK	Comments

WARD O'CALLAHAN
 PROFESSIONAL ENGINEER NY LIC. NO. 97 08864

ELANGAN
 ENGINEERS & ARCHITECTS

21 Park Place
 20th Floor
 New York, NY 10003-2022
 Tel: 212-476-3000 Fax: 212-476-3044

MOINIAN SITE P
 638 WEST 34TH STREET
 NEW YORK, NEW YORK

MONITORING PLAN

Project No.	12080004	Drawing No.	
Date	10-28-11		
Scale	AS SHOWN		
City, State	NY		SOE-106.00
Client	Metropolitan		
Sheet Number	04-10-12		01

Warning: It is a violation of the NYS Education Law Article 140 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this form in any way.

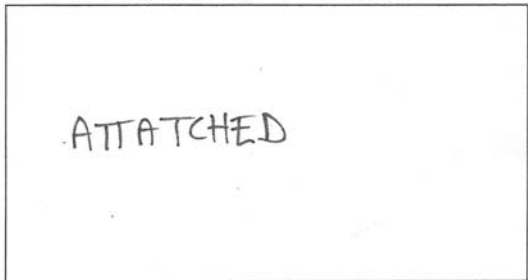
DAILY CAMP
Moinian 34th Street

Monitor: T. P. RES

Date: 9-14-12

Serial Number _____
Roaming PID 16447 Calibration Results: 100.0 ppm
Roaming Dust Trak 004893 OK mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

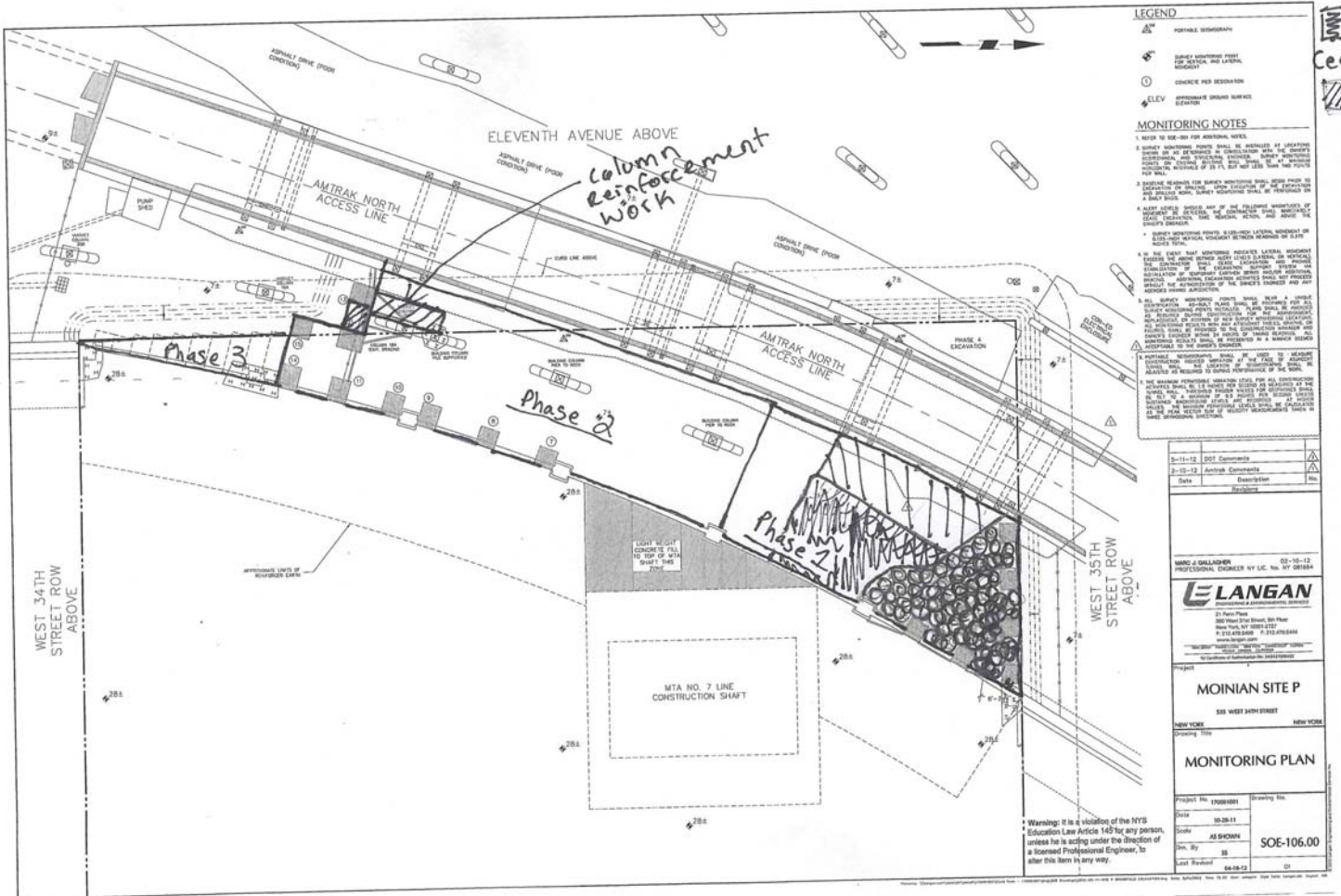
Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.082	0.5	NO	-	N/A
06:30AM						12:30PM	0.045	0.3	NO	-	
07:00AM	0.068	0.0-0.5	NO	-	N/A	13:00PM	0.043	0.3	NO	-	
07:30AM	0.046	0.0-0.3	NO	-		13:30PM	0.046	0.3	NO	-	
08:00AM	0.022	0.0-0.5	NO	-		14:00PM	0.023	0.0-0.20	NO	-	
08:30AM	0.107	0.1-0.3	NO	-		14:30PM	0.055	0.0-0.5	NO	-	
09:00AM	0.062	0.0-0.5	NO	-		15:00PM	0.095	0.0-0.4	NO	-	
09:30AM	0.065	0.0-0.5	NO	-		15:30PM					
10:00AM	0.063	0.0-0.5	NO	-		16:00PM					
10:30AM	0.076	0.4-0.9	NO	-		16:30PM					
11:00AM	0.106	0.2-0.5	NO			17:00PM					
11:30AM	0.084	0.2-0.4	NO		↓	17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9-14-12

Key
 Cleaned, certified,
 & backfilled.

Certified
 Engr. to Behave



LEGEND

- PORTABLE BOUNDARY
- SURVEY MONUMENT POINT (SEE ADJACENT SHEET FOR IDENTIFICATION AND LOCATION)
- CONCRETE PER SEIGNIOR
- ELEVATION MARKERS (SEE ADJACENT SHEET FOR IDENTIFICATION AND LOCATION)

MONITORING NOTES

- REFER TO SOE-106 FOR ADDITIONAL NOTES.
- VERIFY MONITORING POINTS SHALL BE INSTALLED AS LOCATIONS INDICATED ON AN EXISTING OR CONSTRUCTION SURVEY. MONITORING POINTS SHALL BE IDENTIFIED BY A SURVEY MONUMENT POINT (SEE ADJACENT SHEET FOR IDENTIFICATION AND LOCATION) WITH A MINIMUM DISTANCE OF 10 FT, BUT NOT LESS THAN THE POINTS PER SEIGNIOR.
- VERIFY MONITORING POINTS SHALL BE INSTALLED AS LOCATIONS INDICATED ON AN EXISTING OR CONSTRUCTION SURVEY. MONITORING POINTS SHALL BE IDENTIFIED BY A SURVEY MONUMENT POINT (SEE ADJACENT SHEET FOR IDENTIFICATION AND LOCATION) WITH A MINIMUM DISTANCE OF 10 FT, BUT NOT LESS THAN THE POINTS PER SEIGNIOR.
- VERIFY MONITORING POINTS SHALL BE INSTALLED AS LOCATIONS INDICATED ON AN EXISTING OR CONSTRUCTION SURVEY. MONITORING POINTS SHALL BE IDENTIFIED BY A SURVEY MONUMENT POINT (SEE ADJACENT SHEET FOR IDENTIFICATION AND LOCATION) WITH A MINIMUM DISTANCE OF 10 FT, BUT NOT LESS THAN THE POINTS PER SEIGNIOR.
- VERIFY MONITORING POINTS SHALL BE INSTALLED AS LOCATIONS INDICATED ON AN EXISTING OR CONSTRUCTION SURVEY. MONITORING POINTS SHALL BE IDENTIFIED BY A SURVEY MONUMENT POINT (SEE ADJACENT SHEET FOR IDENTIFICATION AND LOCATION) WITH A MINIMUM DISTANCE OF 10 FT, BUT NOT LESS THAN THE POINTS PER SEIGNIOR.

09-11-12	SOE Comments	
09-10-12	Amtrak Comments	
Date	Description	No.
WARD J. GALLAGHER 09-10-12		
PROFESSIONAL ENGINEER, NY LIC. NO. 047 081664		
21 Park Place 800 West Street, 8th Floor New York, NY 10011-2722 P: 212.432.2000 F: 212.432.2000 www.langan.com		
MOINIAN SITE P 535 WEST 34TH STREET NEW YORK, NEW YORK		
MONITORING PLAN		
Project No.	170084001	Drawing No.
Date	09-28-11	
Drawn by	AS SHOWN	SOE-106.00
Scale	AS	
Issue/Revised	04-18-12	01

Warning: It is a violation of the NYS Education Law Article 143 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this form in any way.

DAILY CAMP
Moinian 34th Street

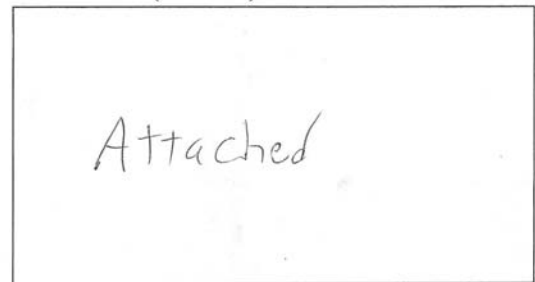
Monitor: Raphael Rosenbaum

Date: 9/15/12

Serial Number
Roaming PID 16447
Roaming Dust Trak 64893

Calibration Results:
100 ppm
OKAY mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor										
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction	
06:00AM						12:00PM	.051	0.3	NO	mid site	WNW	
06:30AM						12:30PM	.085	0.2	NO	DW of excavation	WNW	
07:00AM	—	calibration	—	—	—	13:00PM	.093	0.3	NO	DW of excavation	WNW	
07:30AM	.045	0.2	NO	DW - Start of daily	SW	13:30PM	.282	0.3	NO	DW of excavation	WNW	
08:00AM	.024	0.1	NO	uw - Trussing	SW	14:00PM	.150	0.2	NO	DW of excavation	WNW	
08:30AM	.012	0.1	NO	uw - Post-Trussing	SW	14:30PM	.088	0.2	NO	mid site	WNW	
09:00AM	.180	0.6	Yes	DW of backfilling	SW	15:00PM						
09:30AM	.049	0.2	NO	uw end of site	SW	15:30PM						
10:00AM	.178	0.1	NO	uw end of site	SW	16:00PM						
10:30AM	.162	0.4	NO	DW end of site	SW	16:30PM						
11:00AM	.069	0.1	NO	uw end of site	WNW	17:00PM						
11:30AM	.125	0.3	NO	DW of excavation	WNW	17:30PM						

FLS Contact Person: Kevin McGuinness 212-675-3225



LEGEND

○ CONCRETE PIER DESIGNATION

◆ ELEV APPROXIMATE GROUND SURFACE ELEVATION

NOTES

1. REFER TO SOE-001 FOR GENERAL NOTES.

2. REFER TO SOE-106 FOR MONITORING PLAN AND NOTES.

3. BEDROCK SURFACE ELEVATIONS SHOWN ARE BASED ON AVAILABLE BORING DATA AND SHOULD BE CONSIDERED APPROXIMATE.

TIMBER LAGGING SCHEDULE

PIER #	APPROX. SPAN (FT)	THICKNESS (IN)
1-2	6	3
2-3	6	3
3-4	6	3
4-5	8	4
5-6	8	4
6-00L	8	4
7-8	9	4
8-9	9	4
10-11	8	4
11-12	7	3
12-13	6	3
13-TUNNEL	4	3
14-15	6	3
11-14	7	3
12-15	7	3



Date	Description	Rev.
5-11-12	DOIT Comments	1
2-10-12	Amlogic Comments	1

MARC J. GALLAGHER 02-10-12
 PROFESSIONAL ENGINEER NY LIC. NO. NY 08364

ELANGAN
 ENGINEERING & ARCHITECTURE, INC.

21 Park Plaza
 260 West End Street, 8th Floor
 New York, NY 10007-3757
 P: 212.633.8800 F: 212.678.8844
 www.elangan.com

Project: MOINIAN SITE P
 535 WEST 34TH STREET
 NEW YORK, NEW YORK

Drawing Title: SUPPORT OF EXCAVATION PLAN

Project No: 120881001 Drawing No: SOE-100.00

Date: 09-28-12
 Scale: AS SHOWN
 Dwn. By: BS
 LAST REVISION: 04-18-12

Warning: It is a violation of the NYC Education Law Article 145 for any person, unless he is acting under the direction of a Licensed Professional Engineer, to alter this item in any way.

DAILY CAMP
Moinian 34th Street

Monitor: T. P. RES

Date: 9/17/12

Serial Number _____
Roaming PID 16447 Calibration Results: 100.0 ppm
Roaming Dust Trak 04893 OK mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

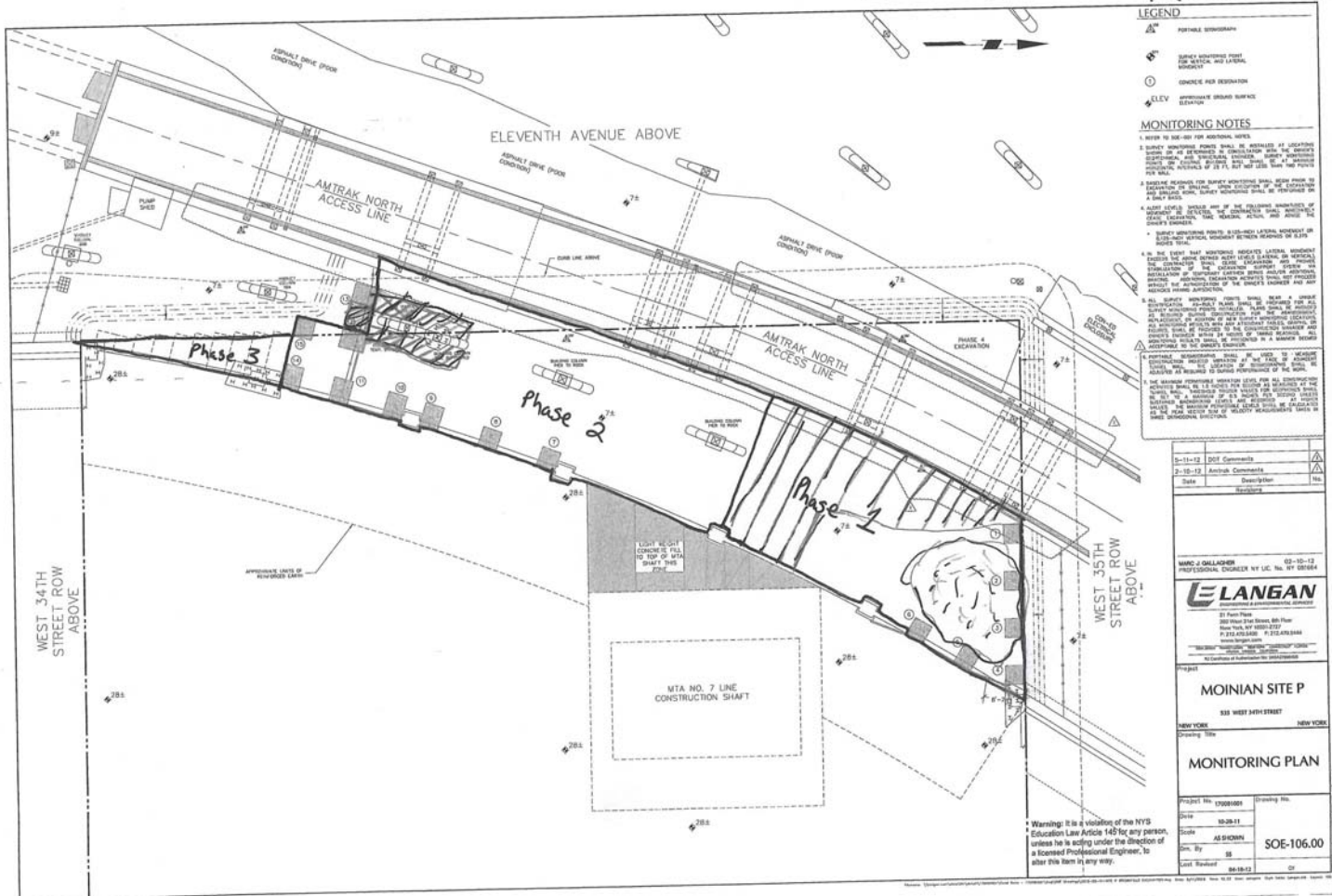
1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.074	0.0-0.1	NO	Lunch	N/A
06:30AM						12:30PM	0.023	0.0	NO	loading truck accounting for dust	
07:00AM	BATT	BATT	BATT	BATT	BATT	13:00PM	0.019	0.0	NO	—	
07:30AM	BATT	BATT	BATT	BATT	BATT	13:30PM	0.069	0.0	NO	—	
08:00AM	BATT	BATT	BATT	BATT	BATT	14:00PM	0.076	0.0-0.1	NO	—	
08:30AM	BATT	BATT	BATT	BATT	BATT	14:30PM	0.052	0.0	NO	—	
09:00AM	BATT	BATT	BATT	BATT	BATT	15:00PM					
09:30AM	BATT	BATT	BATT	BATT	BATT	15:30PM					
10:00AM	0.056	0.1	NO	breaching column held	N/A	16:00PM					
10:30AM	0.067	0.3	NO	—	↓	16:30PM					
11:00AM	0.057	0.1-0.6	Slight	loading	↓	17:00PM					
11:30AM	0.182	0.1-0.9	Slight	—	↓	17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9/17/2012

Key
 ▨ Excavated for column jacket
 ☁ Stockpiled fill
 ▩ Certified Bedrock



LEGEND

- ▲ PORTABLE GROUNDWATER
- SURVEY MONUMENT POINT FOR VERTICAL AND LATERAL MONITORING
- CONCRETE PIER DESIGNATION
- ◆ ELEV APPROXIMATE GRADE SURFACE ELEVATION

MONITORING NOTES

1. REFER TO SOE-100 FOR ADDITIONAL NOTES.
2. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
3. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
4. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
5. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
6. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
7. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
8. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
9. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.
10. GROUND MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AND APPROVED BY CONSULTATION WITH THE OWNER'S GEOTECHNICAL ENGINEER. MONITORING POINTS SHALL BE INSTALLED AT THE FOLLOWING INTERVALS: 10 FT VERTICALLY AND 10 FT HORIZONTALLY FROM THE POINTS SHOWN.

10-14-12	DCI Comments	▲
10-15-12	Amtrak Comments	▲
Date	Description	No.
WANG J. DALLAGHER PROFESSIONAL ENGINEER NY LIC. No. 07 02954 ELANGAN 21 Park Place 20th Floor New York, NY 10007-1017 212 213-2200 F: 212 213-2244 www.elangan.com "The Best" Professional Engineering Solutions 111 Madison Avenue, 11th Floor, New York, NY 10017		
Project: MOIAN SITE P		
Address: 333 WEST 34TH STREET		
City: NEW YORK State: NEW YORK		
Drawing Title: MONITORING PLAN		
Project No. 07008001	Drawing No.	
Date: 10-28-11		
Scale: AS SHOWN		
City: NY		
Job Number: SOE-106.00		
Lead Engineer: 04-18-12	By:	CP

Warning: It is a violation of the NYS Education Law Article 140 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9/18/2012

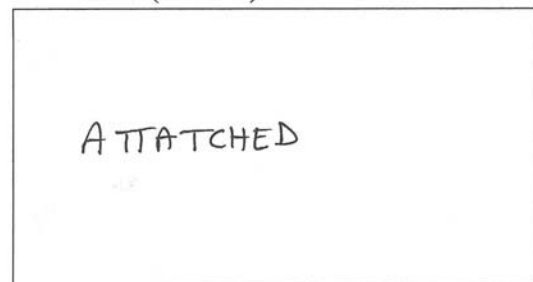
Serial Number

Roaming PID 16447
Roaming Dust Trak 04893

Calibration Results:

100.0 ppm
0.1 mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm




Downwind Particulates Observed or Particulates Leaving Work Area:

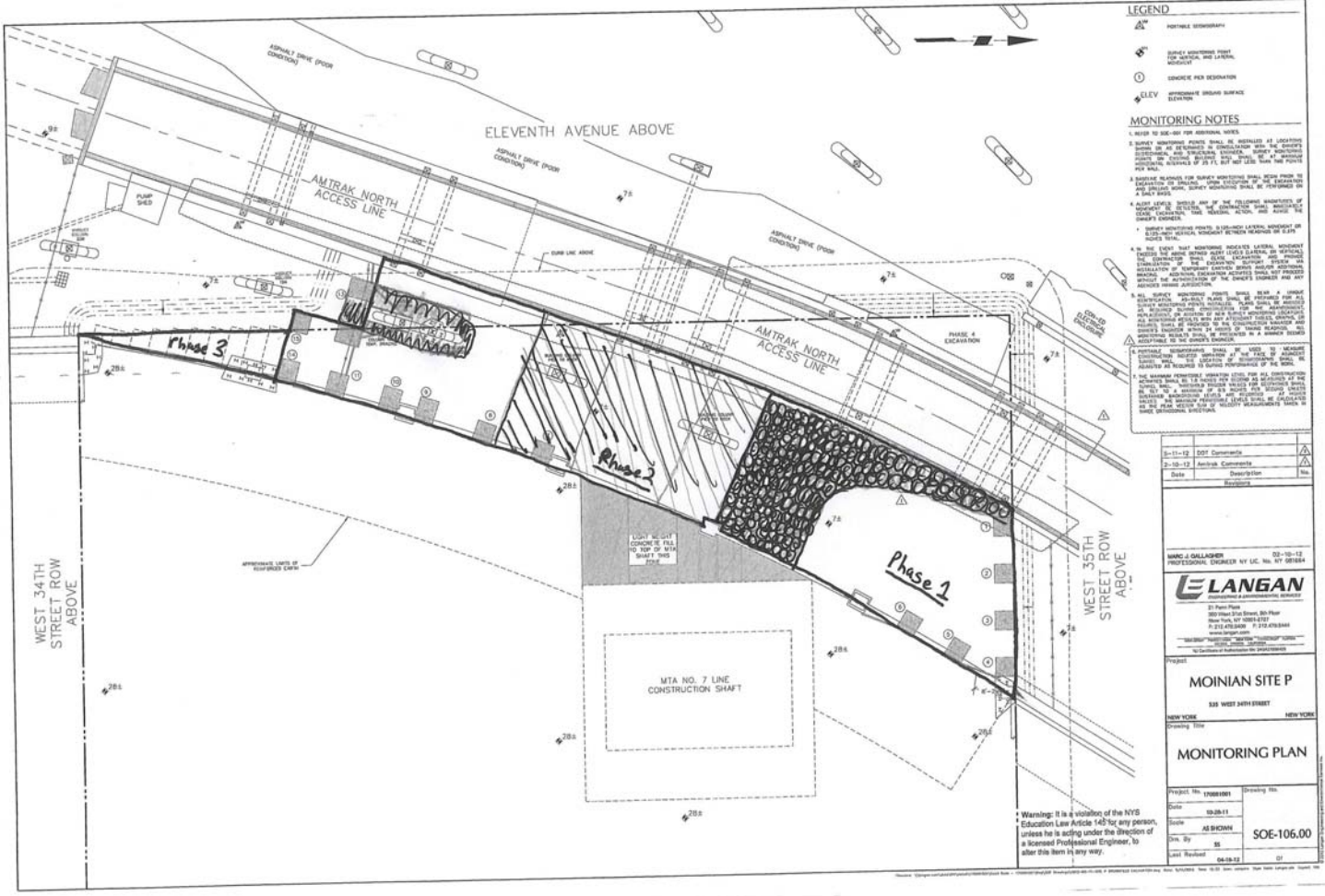
1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.0.5	0.0	NO	-	N/A
06:30AM						12:30PM		0.0	NO	-	
07:00AM	0.067	0.0-0.2	NO	loading	N/A	13:00PM		0.0	NO	-	
07:30AM	0.045	0.0-0.2	NO	" "		13:30PM		0.0-0.3	Slight	Phase 2	
08:00AM	0.070	0.0-0.7	NO	" "		14:00PM		0.0	NO	-	
08:30AM	0.018	0.2-0.7	NO	" "		14:30PM		0.0	NO	-	
09:00AM	0.000	0.2-0.5	NO			15:00PM		0.0	NO	-	
09:30AM	0.0.5	0.2-0.5	NO	loading		15:30PM		0.0	NO	Phase 2	
10:00AM		0.2-0.4	Slight	Phase 2		16:00PM		0.0-0.6	Slight	Phase 2	
10:30AM		0.3-1.0	Slight	" "		16:30PM		0.0	NO	Phase 2	
11:00AM		0.0-0.7	Slight	" "		17:00PM					
11:30AM		0.0-0.6	Slight	" "		17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9/18/2012

 Backfilled
 Excavated Areas
 Column Work



LEGEND

- ▲ PORTABLE MONITORING POINT
- ⊕ SURVEY MONUMENT POINT (SEE PLAN FOR LOCATION AND LABEL)
- MONUMENT PER DESIGNATION
- ⊕ APPROXIMATE GRADE SURFACE ELEVATION

MONITORING NOTES

1. REFER TO SEE-001 FOR ADDITIONAL NOTES.
2. MONITORING MONUMENT POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AN AS-BUILT OR CONSTRUCTION DRAWING. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
3. MONUMENT POINTS FOR SURVEY MONUMENTS SHALL BE INSTALLED AT LOCATIONS AS SHOWN ON THE AS-BUILT OR CONSTRUCTION DRAWING. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
4. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
5. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
6. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
7. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
8. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
9. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.
10. MONUMENT POINTS SHALL BE INSTALLED AT THE CORNER OF ALL MONUMENTED AREAS OF 20 FT. BUT NOT LESS THAN THE POINTS SHOWN.

Date	Description	No.
01-11-12	DDP Comments	1
02-10-12	As-Built Comments	2

WANG J. GALLAGHER
 PROFESSIONAL ENGINEER NY LIC. NO. 117 071864
ELANGAN
 21 Park Plaza
 200 West 34th Street, 8th Floor
 New York, NY 10018-4702
 P: 212 633-3300 F: 212 633-3344
 www.elangan.com
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MOINIAN SITE P
 330 WEST 34TH STREET
 NEW YORK NEW YORK

MONITORING PLAN

PROJECT NO.	170881001	DRAWING NO.	
DATE	10-20-11		
DESIGNED BY	AS SHOWN		
CHECKED BY	SS	SCALE	SOE-106.00
LAST REVISION	04-10-12		07

Warning: It is a violation of the NYS Education Law Article 142 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

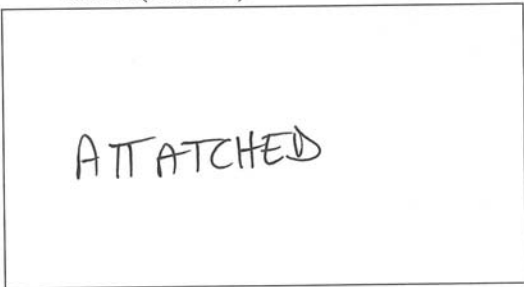
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-19-2012

Serial Number _____ Calibration Results:
Roaming PID 16447 _____ 100.0 ppm
Roaming Dust Trak _____ _____ mg/m³

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm



Downwind Particulates Observed or Particulates Leaving Work Area:

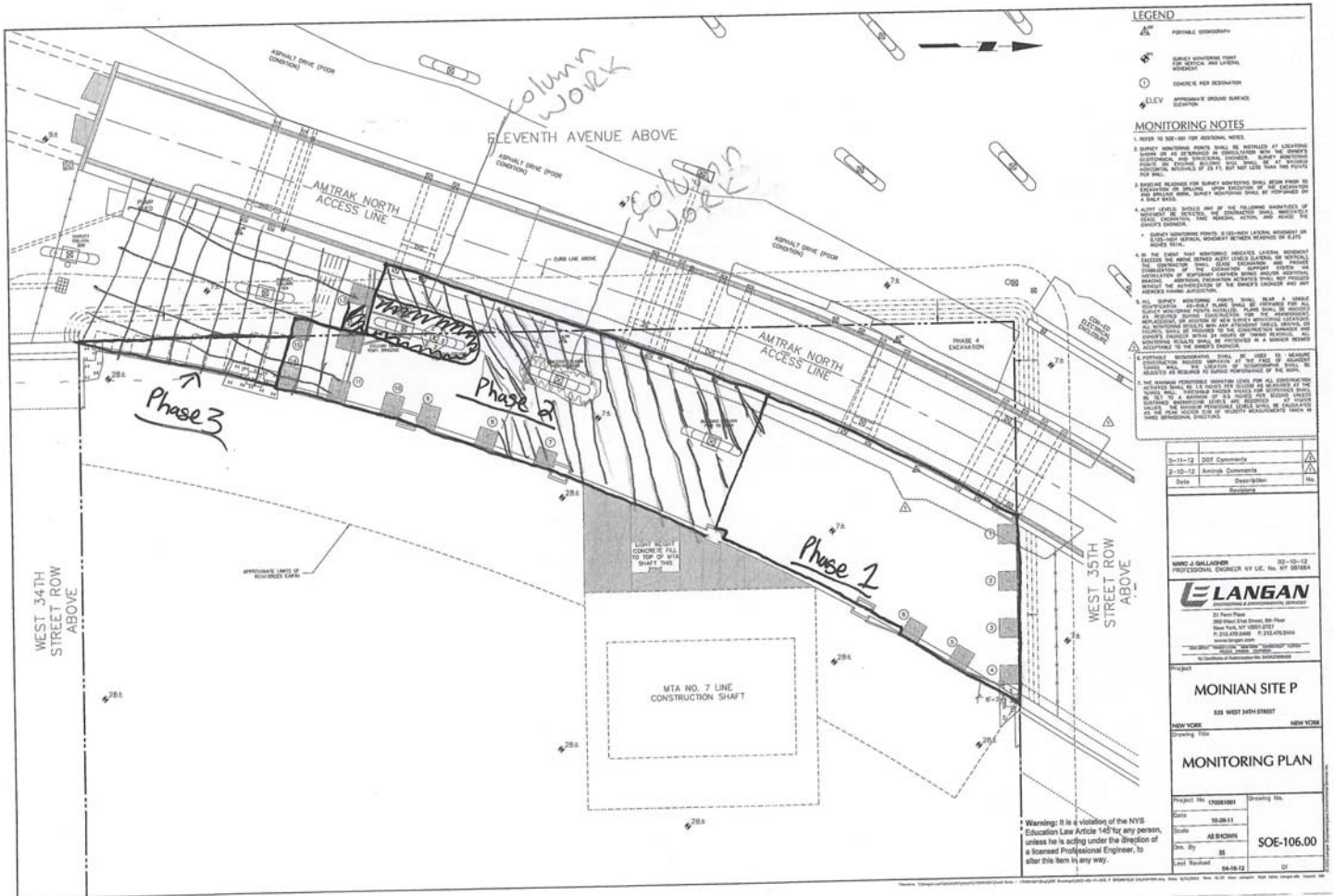
1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor			Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments							
06:00AM						12:00PM	0.0.S.	0.0-0.2	Slight	—	N/A
06:30AM						12:30PM	0.0.S.	0.0	NO	loading	↓
07:00AM	0.0.S.	0.0	NO	loading	N/A	13:00PM	0.0.S.	0.0-0.3	Slight	loading	
07:30AM	0.0.S.	0.0	Slight	loading		13:30PM	0.0.S.	0.0-0.2	NO	loading	
08:00AM	0.0.S.	0.0	Slight	loading		14:00PM	0.0.S.	0.0-0.3	NO	loading	
08:30AM	0.0.S.	0.0-0.3	NO	—		14:30PM	0.0.S.	0.0	NO	loading	
09:00AM	0.0.S.	0.0-0.2	NO	Phase 2		15:00PM	0.0.S.	0.0	NO	loading	
09:30AM	0.0.S.	0.0	NO	Phase 2		15:30PM	0.0.S.	0.0	NO	—	
10:00AM	0.0.S.	0.0	NO	loading		16:00PM	0.0.S.	0.0-0.1	Slight	—	
10:30AM	0.0.S.	0.0	NO	loading		16:30PM	0.0.S.	0.0-0.4	Slight	—	
11:00AM	0.0.S.	0.0-0.2	Slight	Phase 2		17:00PM	0.0.S.	0.0-0.2	—	—	
11:30AM	0.0.S.	0.0	NO	Phase 2	↓	17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9/19/2012

 Certified at Bedrock
 Grading



DAILY CAMP
Moinian 34th Street

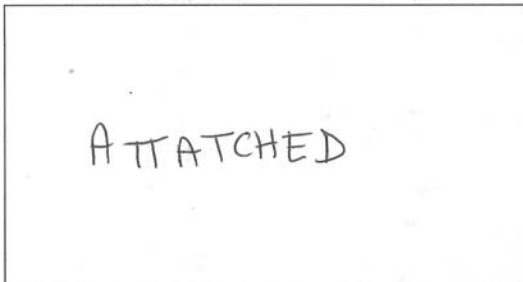
Monitor: T. PIRES

Date: 9-20-2012

Serial Number
Roaming PID 16447
Roaming Dust Trak 03278

Calibration Results:
100.4 ppm
 mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm



Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

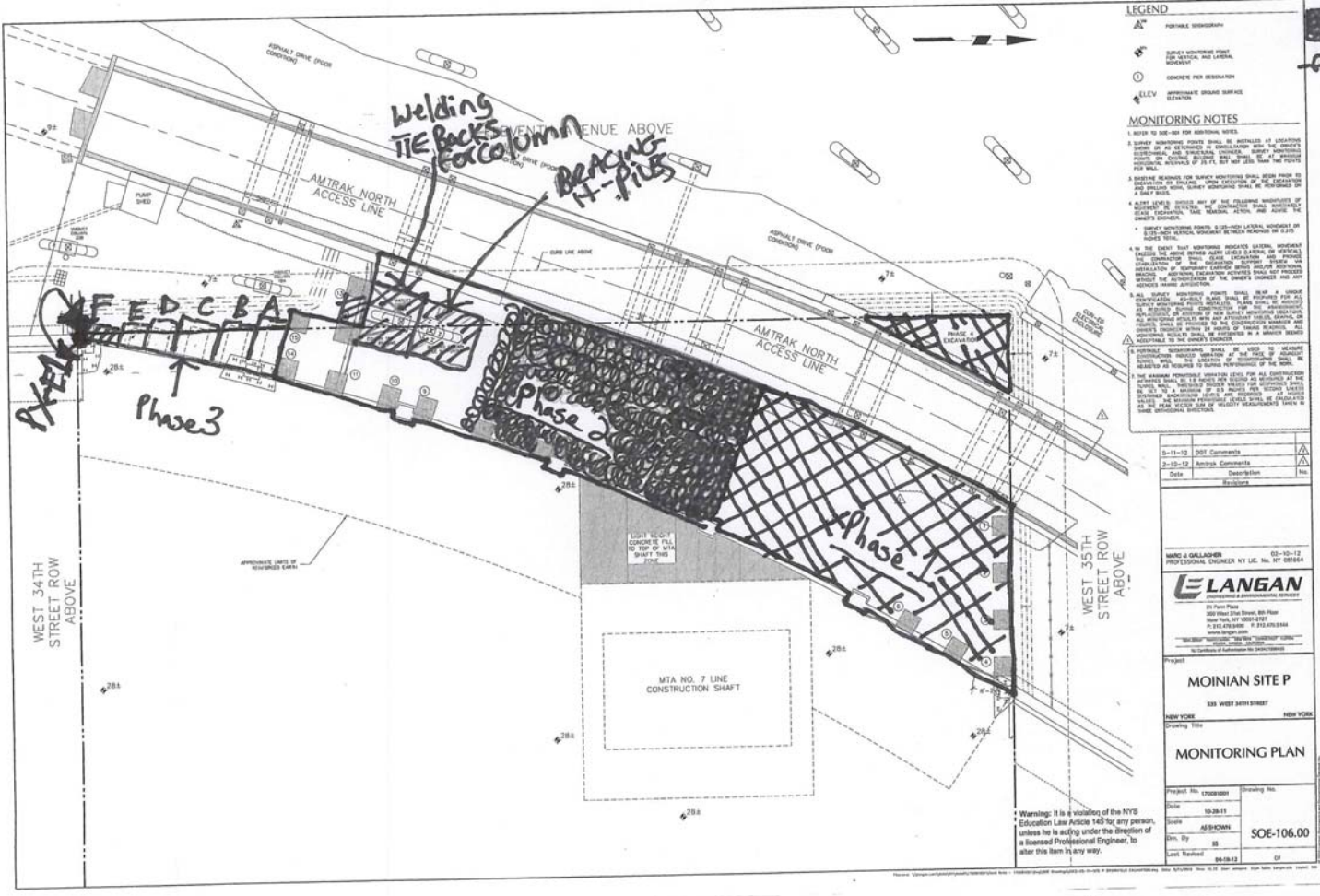
Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.043	0.0	NO	—	N/A
06:30AM						12:30PM	0.069	0.1-0.3	NO	—	N/A
07:00AM	0.05	0.0-0.1	NO	—	N/A	13:00PM	0.042	0.0	NO	—	
07:30AM	0.05	0.0-0.1	NO	—	N/A	13:30PM	0.060	0.0	NO	—	
08:00AM	0.05	0.0-0.5	NO	—		14:00PM	0.072	0.0	NO	—	
08:30AM	0.05	0.0-0.7	NO	—		14:30PM	0.039	0.0-0.1	NO	—	
09:00AM	0.05	0.0-0.4	NO	—		15:00PM	0.019	0.0	NO	Phase 3	
09:30AM	0.05	0.0-0.4	NO	—		15:30PM	0.072	0.0	NO	Phase 3	
10:00AM	0.05	0.0	NO	—		16:00PM	0.086	0.0-0.3	NO	Phase 3	
10:30AM	0.042	0.2	NO	—		16:30PM	0.054	0.0	NO	Phase 3	
11:00AM	0.063	0.0-0.3	Slight	—		17:00PM	BATT	0.0-0.1	NO	Phase 3	
11:30AM	0.057	0.0-0.4	NO	—		17:30PM	BATT	0.0	NO	Phase 3	
FLS Contact Person: Kevin McGuinness 212-675-3225						18:00 PM	BATT	0.0-0.3	NO	Phase 3	
						18:30 PM	BATT	0.0-0.1	NO	Phase 3	
						19:00 PM	BATT	0.0-0.1	NO	Phase 3	
						19:30 PM	BATT	0.0-0.1	NO	Phase 3	
						20:00 PM	BATT	0.0-0.2	NO	Phase 3	

9/20/2012

KE 4

 Certified + Backfilled Areas (complete)
 Excavation + OR GENERAL WORK AREAS

Area Back-filled today



LEGEND

- PORTABLE SIGNPOST
- SURVEY MONITORING POINT (SEE MANUAL AND LABELS)
- CONCRETE FOR DESIGNATION
- ELEV APPROXIMATE GRADE SURFACE

MONITORING NOTES

- REFER TO 108-109 FOR MONITORING NOTES
- GENERAL MONITORING POINTS SHALL BE INSTALLED AT LEASTING POINTS OF AN EXCAVATION OR CUTTING. THE GENERAL MONITORING POINTS SHALL BE INSTALLED AT LEASTING POINTS OF AN EXCAVATION OR CUTTING. THE GENERAL MONITORING POINTS SHALL BE INSTALLED AT LEASTING POINTS OF AN EXCAVATION OR CUTTING. THE GENERAL MONITORING POINTS SHALL BE INSTALLED AT LEASTING POINTS OF AN EXCAVATION OR CUTTING.
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Date	Description	No.
2-11-12	DOT Comments	1
2-10-12	Amtrak Comments	1

MARC A GALLAGHER 02-10-12
 PROFESSIONAL ENGINEER NY LIC. No. NY 08384

ELANGAN
 ENGINEERS & ARCHITECTS

21 Park Place
 20th Floor
 New York, NY 10038-1107
 P: 212.633.6600 F: 212.633.6644

Project: **MOINIAN SITE P**
 333 WEST 34TH STREET
 NEW YORK, NEW YORK

Drawing Title: **MONITORING PLAN**

Project No.	Expenditure	Drawing No.
108-109	AS SHOWN	SOE-106.00
Drawn By: SS	Checked By: SS	Date: 09-18-12

Warning: It is a violation of the NYS Education Law Article 142 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

DAILY CAMP
Moinian 34th Street

Monitor: To Pires

Date: 9-21-2012

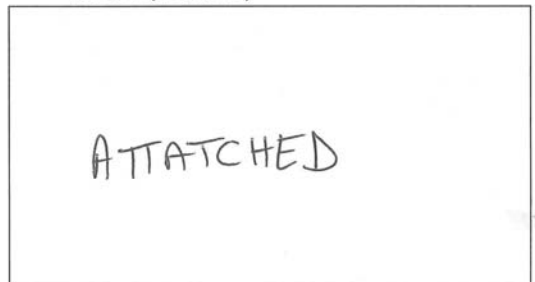
Serial Number

Roaming PID 16447
Roaming Dust Trak 03278

Calibration Results:

100.0 ppm
NOT ZERO mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm



Downwind Particulates Observed or Particulates Leaving Work Area:

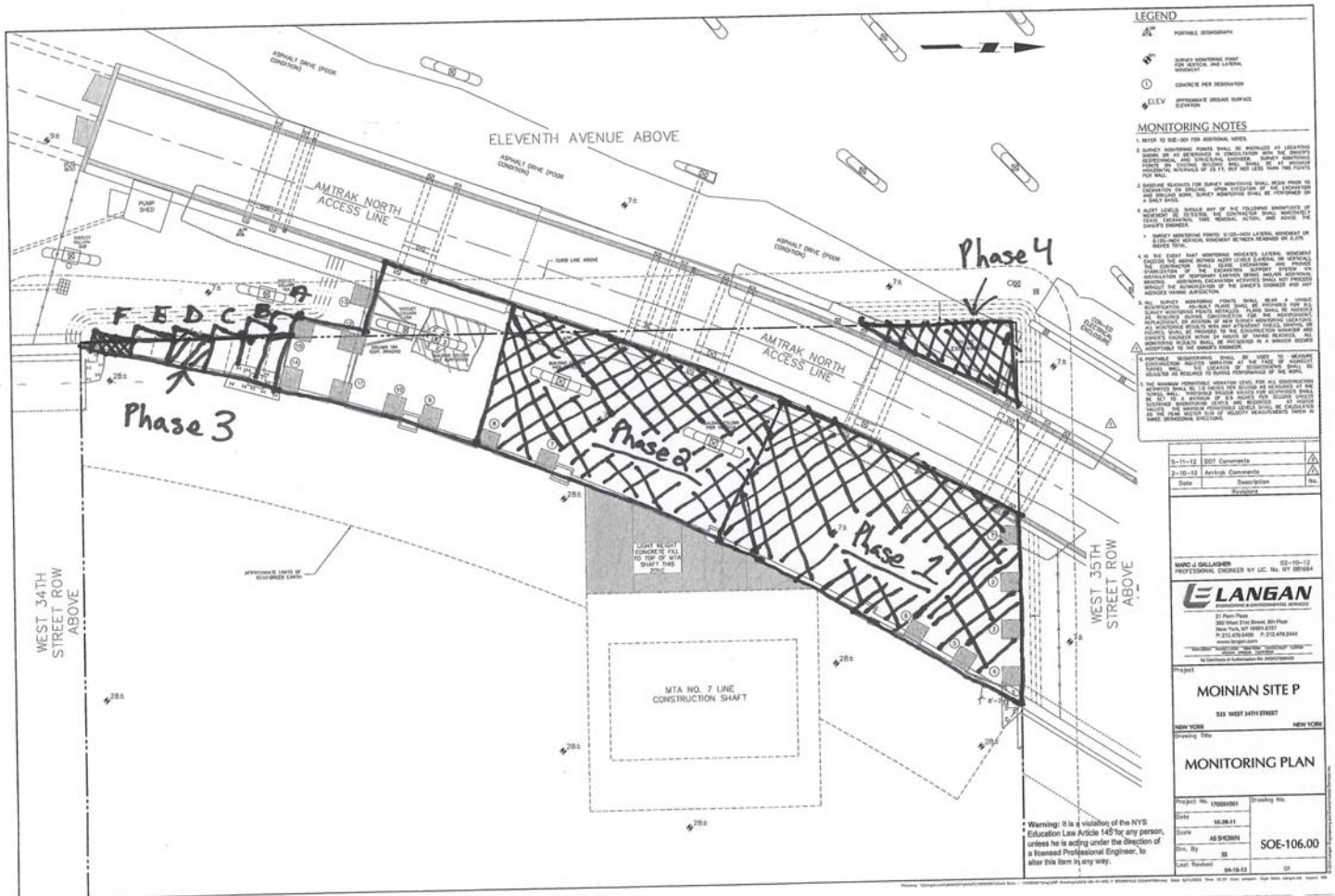
1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM											
06:30AM											
07:00AM	0.097	0.0-0.1	Slight	loading	N/A	12:00PM	0.053	0.0-0.5	NO	Phase 3	N/A
07:30AM	0.040	0.0-0.1	Slight	loading		12:30PM	0.096	0.0-0.1	NO	Phase 3	
08:00AM	0.044	0.0-0.1	NO	Phase 3		13:00PM	0.05	0.0-0.2	NO	Phase 3	
08:30AM	0.077	0.0-0.4	NO	Phase 3		13:30PM	0.05	0.0-0.3	NO	loading	
09:00AM	0.026	0.3	NO	" "		14:00PM		0.2	NO	Phase 3	
09:30AM	0.061	0.4	Slight	loading		14:30PM		0.3	NO	Phase 3	
10:00AM	0.017	0.2	NO	Phase 3		15:00PM		0.0-0.2	NO	Phase 3	
10:30AM	0.033	0.2-0.6	NO	Phase 3		15:30PM		0.2	NO	Phase 3	
11:00AM	0.025	0.1	NO	Phase 3		16:00PM					
11:30AM	0.079	0.4	NO	Phase 3	↓	16:30PM					
						17:00PM					
						17:30PM					

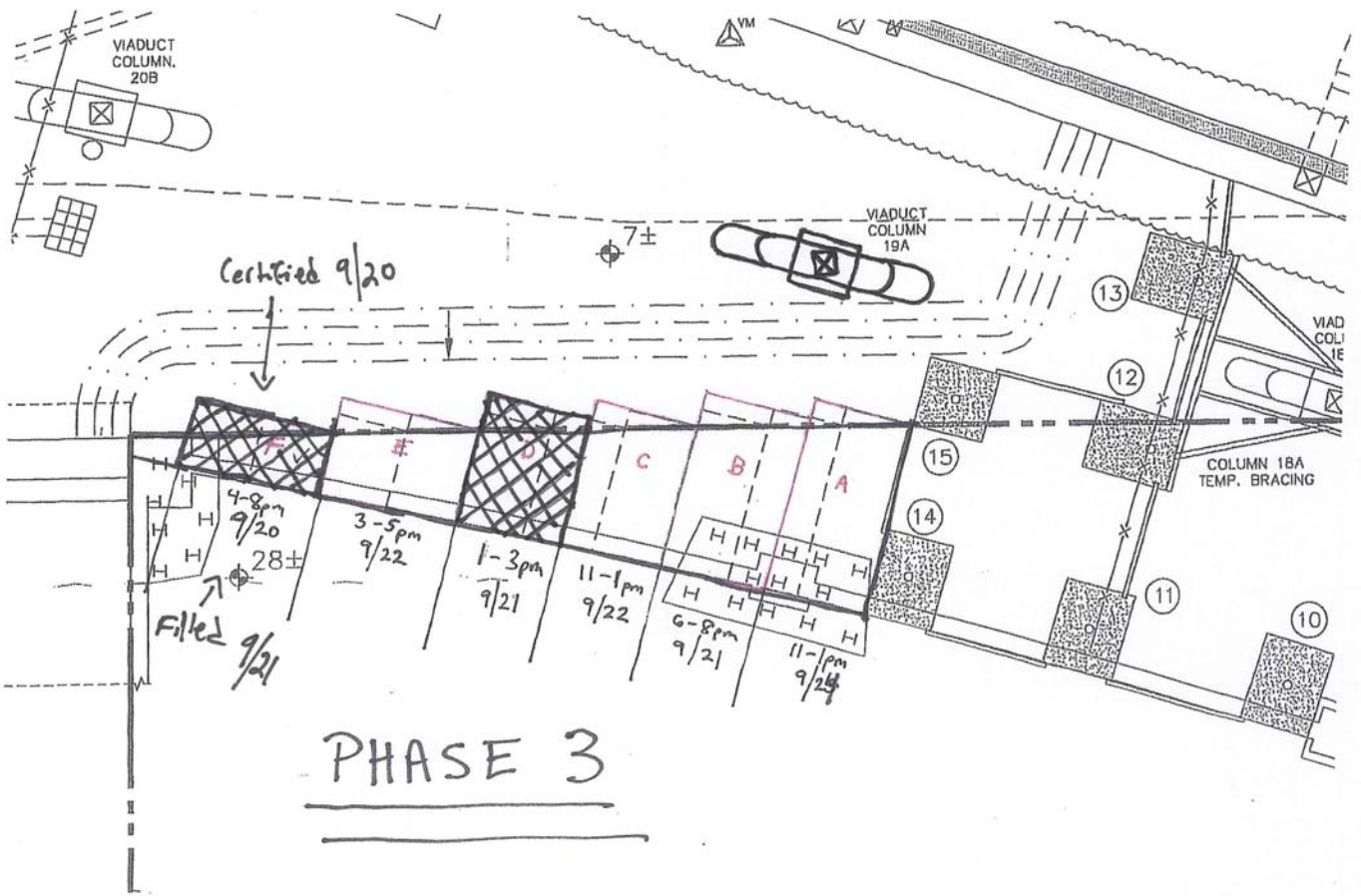
FLS Contact Person: Kevin McGuinness 212-675-3225

9/21/12



 Backfilled & Certified Areas
 Areas of excavation & other work Today



9-21-1a



PHASE 3

-  Excavated + Certified
-  Excavated Only

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-24-202

Serial Number _____
Roaming PID 16447 Calibration Results: _____ ppm
Roaming Dust Trak _____ mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

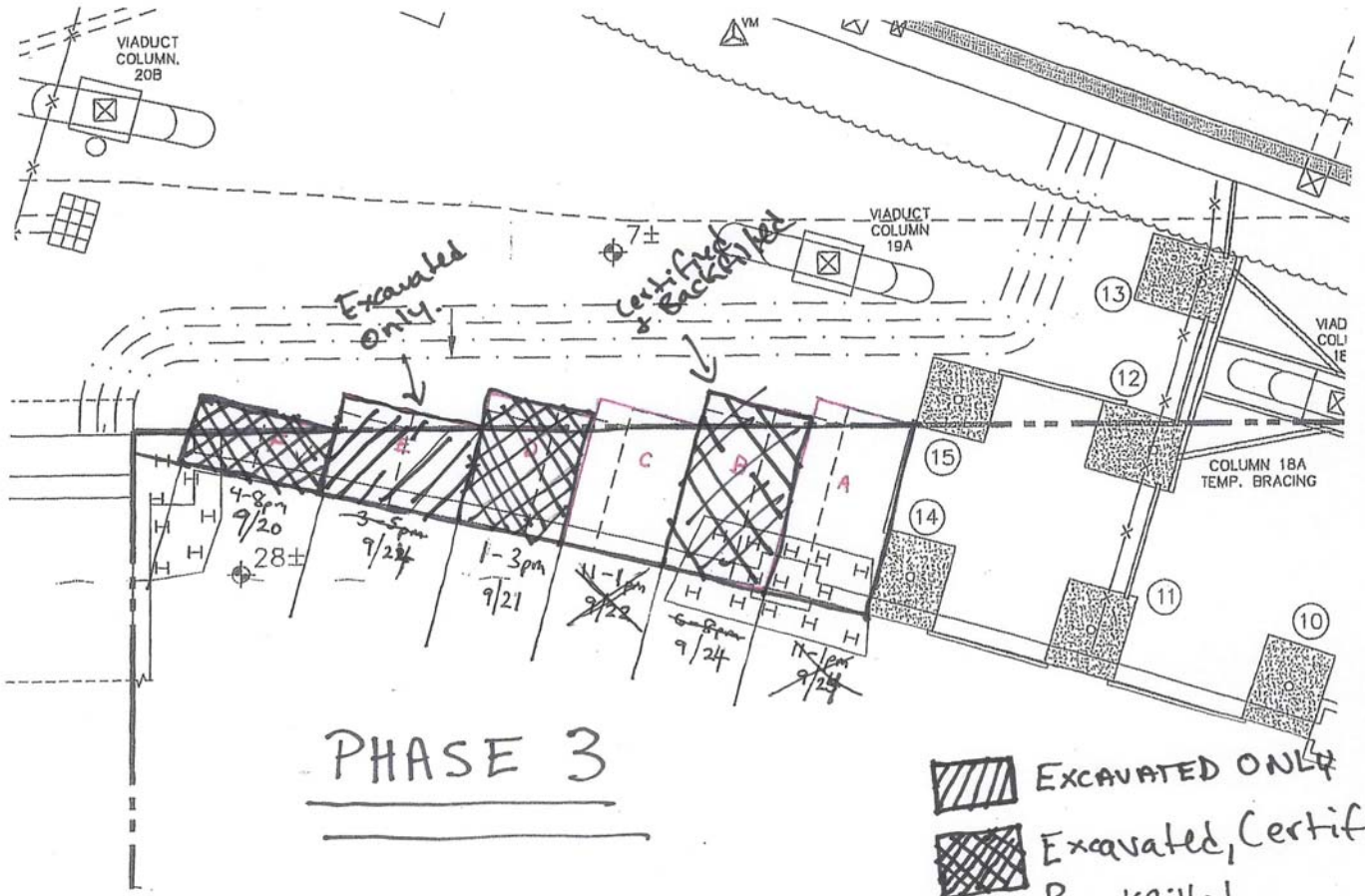
1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:



1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor			Wind		Dust	PID	Odor	Comments	Wind
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Direction		Trak	Reading	(Y/N)		Direction
06:00AM						12:00PM	0.05	0.1	NO	—	N/A
06:30AM						12:30PM	0.05	0.2	NO	—	
07:00AM	0.05	0.0-0.1	NO	Phase 3(B)	N/A	13:00PM	0.05	0.1	NO	—	
07:30AM	0.05	0.0-0.2	Slight	" "		13:30PM	0.05	0.0-0.2	NO	Phase 3(B)	
08:00AM	0.05	0.0-0.2	Slight	" "		14:00PM	0.05	0.0-0.2	NO	" "	
08:30AM	0.05	0.0-0.6	Slight	" "		14:30PM	0.05	0.1	NO	Phase 3(B)	
09:00AM	0.05	0.1-0.6	NO	" "		15:00PM	0.050	0.0-0.1	NO	Phase 3(B)	
09:30AM	0.05	0.0-0.1	Slight	loading		15:30PM	0.027	0.0-0.1	NO	" "	
10:00AM	0.05	0.0-0.1	NO	Phase 3(B)		16:00PM	0.017	0.0-0.2	NO	" "	
10:30AM	0.05	0.0-0.2	NO	" "		16:30PM	0.020	0.0-0.1	NO	" "	
11:00AM	0.05	0.0-0.2	NO	" "		17:00PM	0.047	0.0-0.1	NO	" "	
11:30AM	0.05	0.0-0.3	NO	loading	↓	17:30PM	0.024	0.0	NO	Phase 3(B)E	↓
FLS Contact Person: Kevin McGuinness 212-675-3225						18:00	0.032	0.0	NO	" "	
						18:30	0.018	0.0	NO	" "	
						19:00	0.051	0.0-0.1	NO	" "	
						19:30	0.016	0.0	NO	" "	↓

9/24/2012



PHASE 3

-  EXCAVATED ONLY
-  EXCAVATED, CERTIFIED & BACKFILLED.

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9/25/2012

Serial Number

Roaming PID 16447
Roaming Dust Trak 05690

Calibration Results:

100.1 ppm
OK mg/m³

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

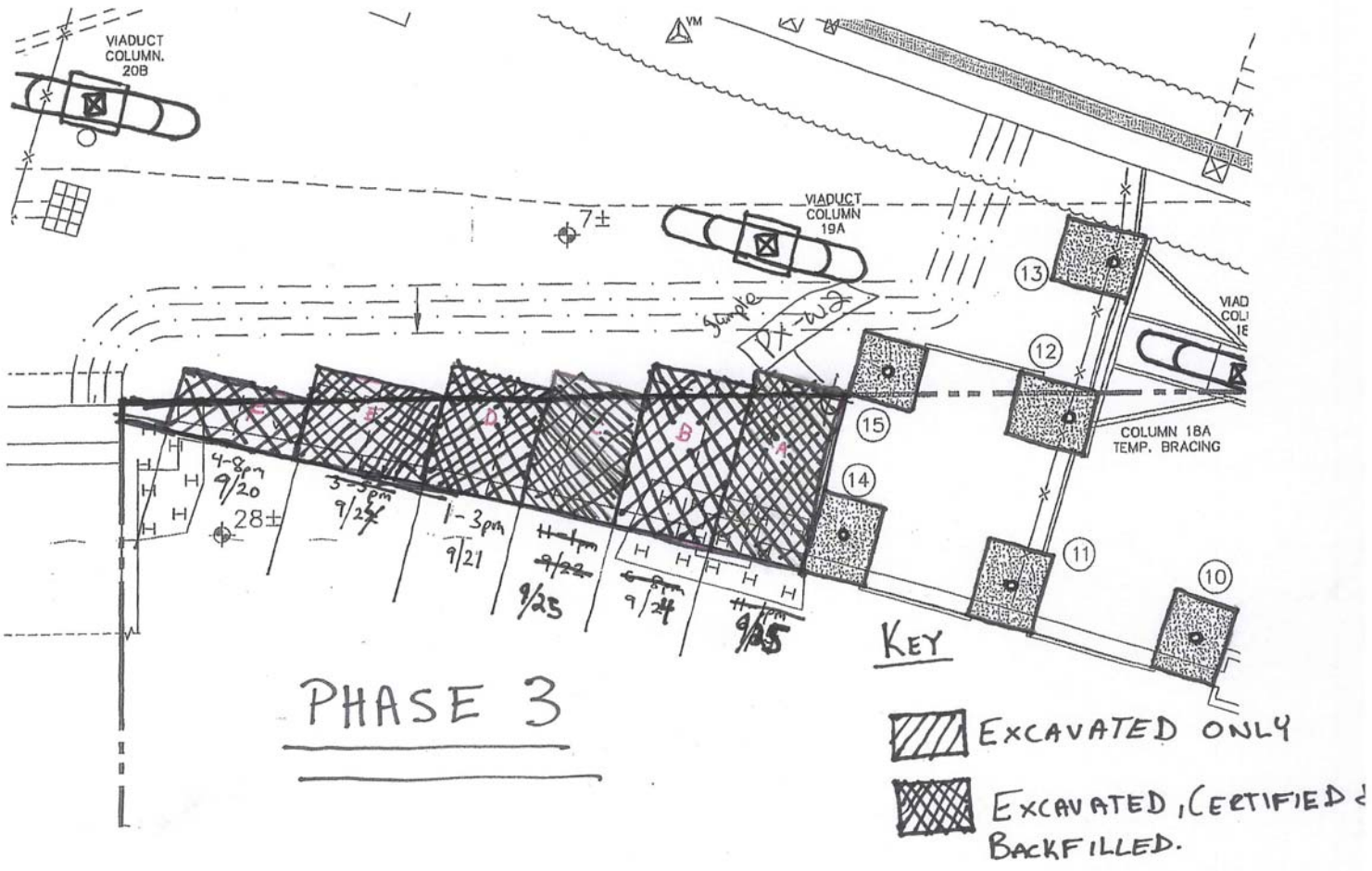
1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM							0.0.S.	0.0	NO	—	N/A
06:30AM								0.0-0.6	NO	Phase 3(A)	
07:00AM	0.000	0.0	NO	SET-UP	N/A			0.0	NO	Phase 3(A)	
07:30AM	0.000	0.0	NO	" "				0.0-0.7	Slight	Phase 3(A)	
08:00AM	0.000	0.0	NO	" "				0.0-1.2	Slight	Phase 3(A)	
08:30AM	0.0.S.	0.0-0.6	NO	Phase 3(A)				0.0-0.1	Slight	Phase 3(A)	
09:00AM		0.0	NO	" "				0.0-0.1	NO	Phase 3(A)	
09:30AM		0.0-0.6	NO	" "				0.0-0.1	NO	Phase 3(A)	
10:00AM		0.0	NO	" "				0.0-0.5	Slight	Phase 3(A+C)	
10:30AM		0.0-0.3	NO	" "				0.0-0.1	NO	Phase 3(A+C)	
11:00AM		0.0-0.7	NO	" "				0.0-0.2	NO	" "	
11:30AM	↓	0.0	NO	" "	↓			0.0	NO	Phase 3(C)	
FLS Contact Person: Kevin McGuinness 212-675-3225						18:00		0.0-0.2	NO	Phase 3(C)	
0.0.S. = Out of Service						18:30		0.0-0.1	NO	Phase 3(C)	

9/25/2012



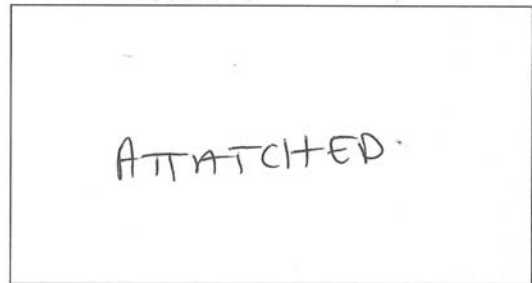
DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-26-12

Serial Number _____
Roaming PID 16447
Roaming Dust Trak _____
Calibration Results: 49.9 ppm
Out of Service mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

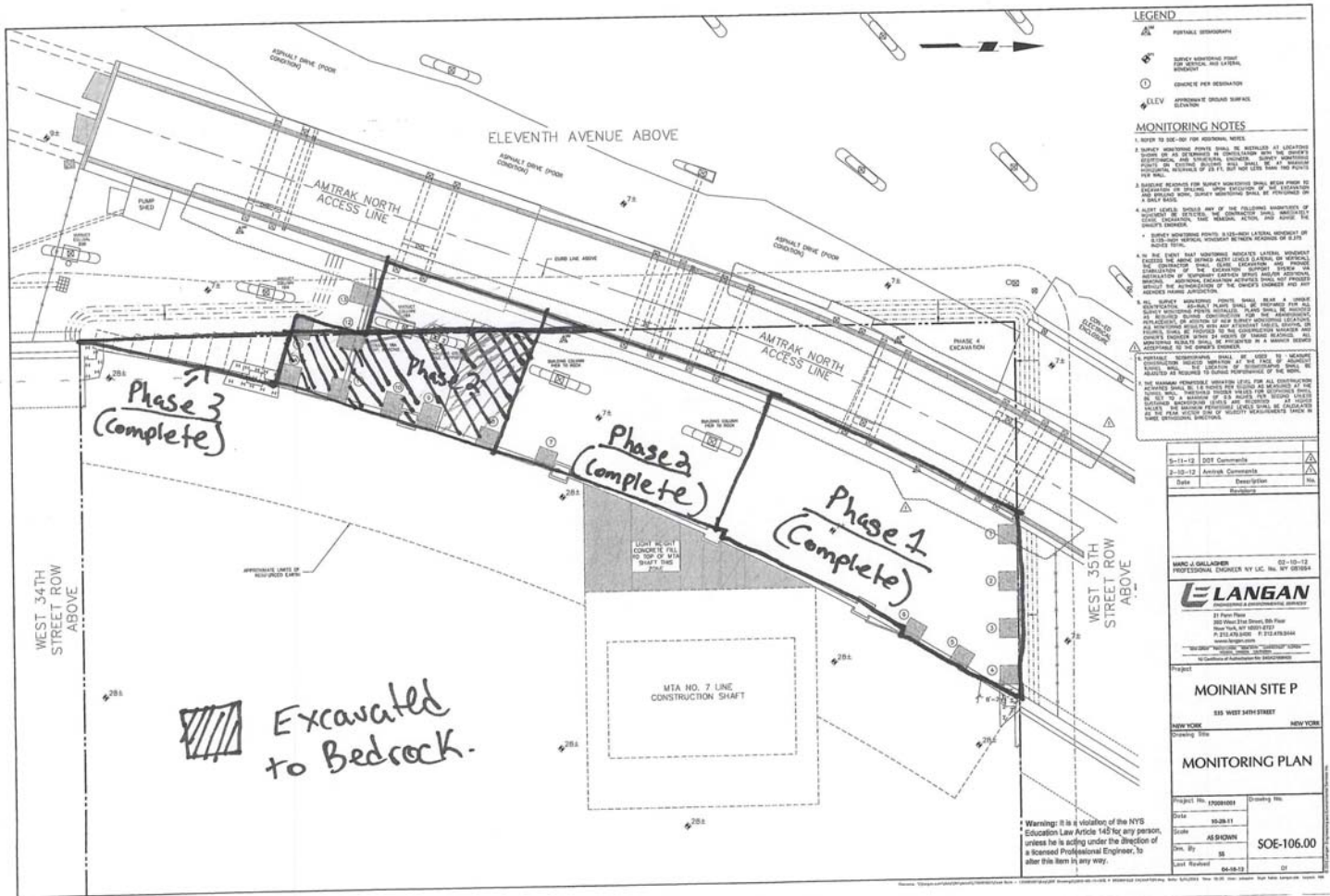
1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM						12:00PM	0.0.S.	0.3-0.8	Moderate	Lunch	N/A
06:30AM						12:30PM	0.0.S.	0.2-2.4	Moderate	loading	N/A
07:00AM	0.0.S.	0.0	NO	loading	N/A	13:00PM	0.0.S.	0.0-5.2	Moderate	Phase 2	N/A
07:30AM	0.0.S.	0.0	NO	loading	N/A	13:30PM	0.0.S.	0.0-16.8	Moderate	Phase 2	N/A
08:00AM	0.0.S.	0.0-0.2	Slight	Phase 2	N/A	14:00PM	0.0.S.	0.0-10.8	Moderate	Phase 2	N/A
08:30AM	0.0.S.	0.0-0.3	NO	Phase 2	N/A	14:30PM	0.0.S.	0.0-0.6	Slight-Med	Phase 2	N/A
09:00AM	0.0.S.	0.0-0.3	NO	Phase 2	N/A	15:00PM	0.0.S.	0.0-0.9	Slight	" "	" "
09:30AM	0.0.S.	0.0-4.8	Slight-Med	Phase 2	N/A	15:30PM	0.0.S.	0.0-0.9	Slight	" "	" "
10:00AM	0.0.S.	0.0-1.1	" "	Phase 2	N/A	16:00PM	0.0.S.	0.0-0.9	Slight	" "	" "
10:30AM	0.0.S.	0.1-0.7	" "	Phase 2	N/A	16:30PM	0.0.S.	0.0-0.3	Slight	" "	" "
11:00AM	0.0.S.	0.2-2.6	" "	Phase 2	N/A	17:00PM	0.0.S.	0.0-0.1	Slight	" "	" "
11:30AM	0.0.S.	0.3-5.6	Moderate	Phase 2	N/A	17:30PM	0.0.S.	0.0-0.1	Slight	" "	" "
FLS Contact Person:		Kevin McGuinness 212-675-3225				18:00		0.0	NO	" "	" "
21:00	"	0.3-0.5	NO	" "	" "	18:30		0.0	" "	" "	" "
21:30	"	0.0-0.1	NO	" "	" "	19:00		0.0	" "	" "	" "
22:00						1 of 1 19:30		0.0-0.5	" "	" "	" "
22:30						20:00		0.0-1.0	" "	" "	" "
						20:30		0.0-0.5	" "	" "	" "

9/26/12



Excavated to Bedrock.

LEGEND

PORTABLE EQUIPMENT

SURVEY MONITORING POINT FOR VERTICAL AND LATERAL MOVEMENT

CONCRETE PER DESTINATION

ELEV APPROXIMATE GRADE SURFACE ELEVATION

MONITORING NOTES

- REFER TO SOE-106 FOR MONITORING NOTES
- SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON ALL DRAWINGS AT CONSTRUCTION START. MONITORING POINTS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. ALL MONITORING POINTS SHALL BE MAINTAINED TO WITHIN TOLERANCES OF 0.1% BUT NOT LESS THAN THE POINT TO POINT TOLERANCE.
- CONCRETE RECORDS FOR SURVEY MONITORING POINTS SHALL BE SUBMITTED TO THE ENGINEER AT THE END OF EACH CONSTRUCTION PHASE AND AT THE END OF THE PROJECT. RECORDS SHALL BE MAINTAINED FOR THE LIFE OF THE PROJECT AND SHALL BE AVAILABLE FOR REVIEW AT ALL TIMES.
- CONCRETE RECORDS SHALL BE MAINTAINED AT ALL TIMES. RECORDS SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE AVAILABLE FOR REVIEW AT ALL TIMES.
- CONCRETE RECORDS SHALL BE MAINTAINED AT ALL TIMES. RECORDS SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE AVAILABLE FOR REVIEW AT ALL TIMES.
- CONCRETE RECORDS SHALL BE MAINTAINED AT ALL TIMES. RECORDS SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE AVAILABLE FOR REVIEW AT ALL TIMES.

Date	Description	No.
10-11-12	SOE Comments	1
10-12-12	Amtrak Comments	2

MANO J. MALLAMER 02-10-12
PROFESSIONAL ENGINEER BY LIC. NO. NY 081834

LANGAN
21 Park Place
200 West 57th Street, 9th Floor
New York, NY 10019-3113
P: 212.326.7000 F: 212.326.7004
WWW.LANGAN.COM

Project: **MOIANIAN SITE P**
333 WEST 34TH STREET
NEW YORK, NEW YORK

Drawing No: **MONITORING PLAN**

Project No: E0208001 Drawing No: **SOE-106.00**

Date: 10-26-11
Scale: AS SHAWIN
City: NY
Last Revised: 04-28-13

Warning: It is a violation of the NYS Education Law Article 140 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-27-12

Serial Number
Roaming PID 16447
Roaming Dust Trak _____

Calibration Results:
99.9 ppm
OUT OF SERVICE mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

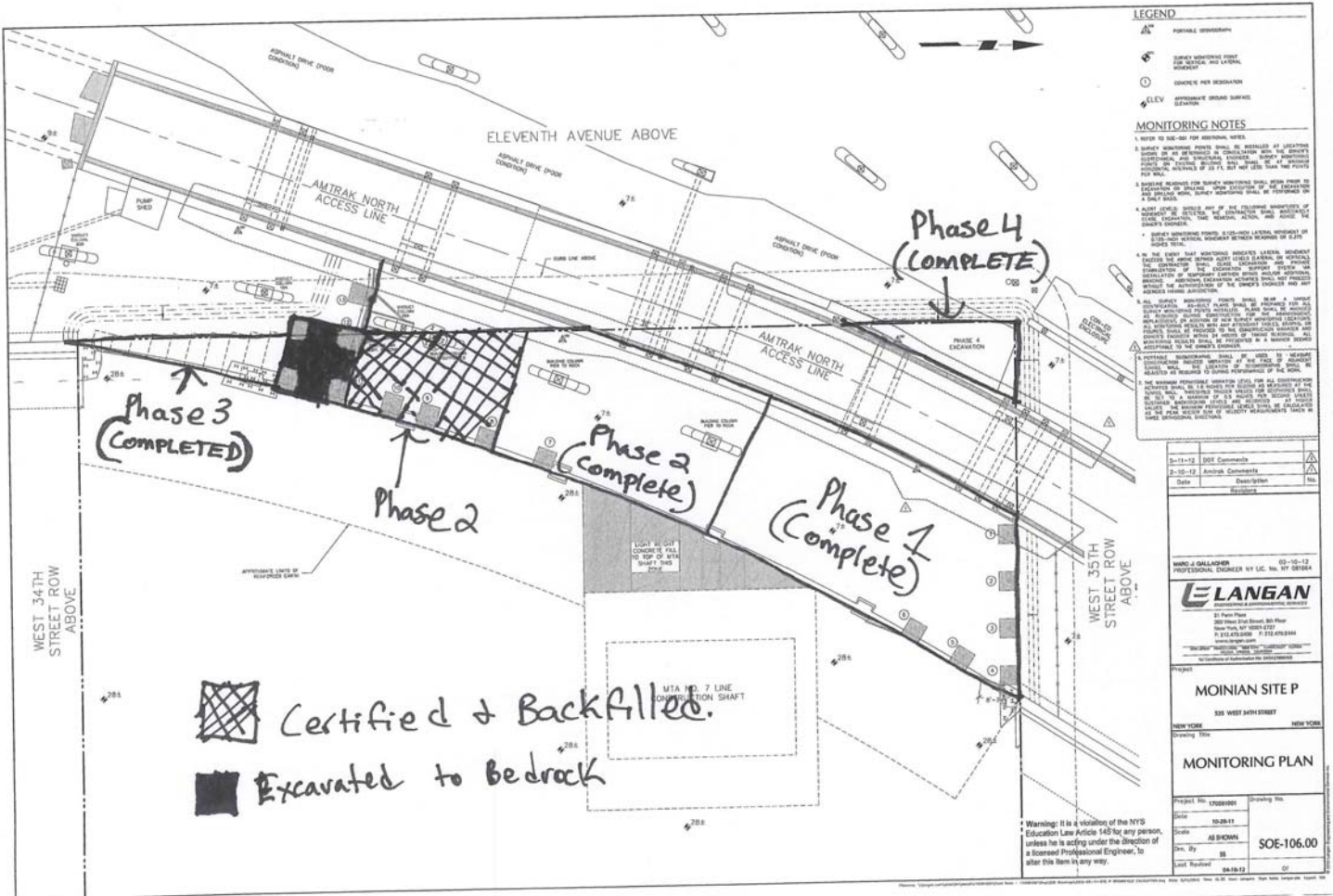
Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor										
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction	
06:00AM						12:00PM	0.0.S.	0.0-0.5	NO	Lunch	N/A	
06:30AM						12:30PM	0.0.S.	0.4	NO	loading	N/A	
07:00AM	0.0.S.	0.0-0.9	yes	loading	N/A	13:00PM	0.0.S.	0.0-1.7	NO	Phase 2	N/A	
07:30AM	0.0.S.	0.0-0.9	yes	loading	N/A	13:30PM	0.0.S.	0.0-2.5	NO	Phase 2	N/A	
08:00AM	0.0.S.	0.1	NO	Backfill	N/A	14:00PM	0.0.S.	0.0-0.8	NO	Phase 2	N/A	
08:30AM	0.0.S.	0.0-0.6	yes	—	N/A	14:30PM	0.0.S.	0.0-1.2	NO	Phase 2	N/A	
09:00AM	0.0.S.	0.0-0.3	NO	—	N/A	15:00PM	0.0.S.	0.0-0.2	NO	—	N/A	
09:30AM	0.0.S.	0.0-0.5	NO	—	N/A	15:30PM	0.0.S.	0.0-0.2	NO	concrete	N/A	
10:00AM	0.0.S.	0.0-0.7	yes	loading	N/A	16:00PM	0.0.S.	0.0-0.4	NO	Phase 2	N/A	
10:30AM	0.0.S.	0.0-0.6	NO	—	N/A	16:30PM	0.0.S.	0.0-0.4	yes	Phase 2	N/A	
11:00AM	0.0.S.	0.0-0.4	slight	—	N/A	17:00PM	0.0.S.	0.0-0.4	NO	Phase 2	N/A	
11:30AM	0.0.S.	0.0-0.7	slight	—	N/A	17:30PM						

FLS Contact Person: Kevin McGuinness 212-675-3225

9/27/12



LEGEND

- ▲ SPECIAL OBSERVATION
- SURVEY MONITORING POINT (HORIZONTAL AND VERTICAL)
- CONCRETE PER DESIGNATION
- ▲ ELEV APPROXIMATE GRADE SURFACE ELEVATION

MONITORING NOTES

1. REFER TO 306-00 FOR MONITORING NOTES
2. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AN APPROVED CONSULTATION DRAWING. THE OWNER'S LIABILITY FOR THE ACCURACY OF THE SURVEYING DATA IS LIMITED TO THE POINTS SHOWN ON THIS PLAN, BUT NOT LESS THAN THE POINTS SHOWN.
3. EXISTING RECORDS FOR SURVEY MONITORING SHALL BE APPROVED BY THE ENGINEER. THE ENGINEER SHALL CONDUCT A VISUAL CHECK OF THE RECORDS AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.
4. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AN APPROVED CONSULTATION DRAWING. THE OWNER'S LIABILITY FOR THE ACCURACY OF THE SURVEYING DATA IS LIMITED TO THE POINTS SHOWN ON THIS PLAN, BUT NOT LESS THAN THE POINTS SHOWN.
5. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AN APPROVED CONSULTATION DRAWING. THE OWNER'S LIABILITY FOR THE ACCURACY OF THE SURVEYING DATA IS LIMITED TO THE POINTS SHOWN ON THIS PLAN, BUT NOT LESS THAN THE POINTS SHOWN.
6. THE ENGINEER SHALL MONITOR THE EXCAVATION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.
7. THE ENGINEER SHALL MONITOR THE EXCAVATION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.
8. THE ENGINEER SHALL MONITOR THE EXCAVATION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.
9. THE ENGINEER SHALL MONITOR THE EXCAVATION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.
10. THE ENGINEER SHALL MONITOR THE EXCAVATION AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.

Phase 3 (Completed)

Phase 2 (Complete)

Phase 1 (Complete)

Phase 4 (Complete)

Certified & Backfilled.
 Excavated to Bedrock

3-11-12	DCI Comments	
2-10-12	Archib Comments	
Date	Description	No.
MARIO G. GALLAGHER PROFESSIONAL ENGINEER NY LIC. NO. 03-10-12 ELANGAN 21 Park Place 20th Floor New York, NY 10038-2127 P: 212-693-8888 F: 212-693-8844 www.elangan.com 1000 Avenue of the Americas, 10th Floor, New York, NY 10020-1099		
Project: MOINIAN SITE P 333 WEST 34TH STREET NEW YORK, NEW YORK		
Drawing Title: MONITORING PLAN		
Project No:	EX2009001	Drawing No.
Date:	10-28-11	
Scale:	AS SHOWN	
Des. By:	SS	SOE-106.00
Last Revised:	04-18-12	01

Warning: It is a violation of the NYS Education Law Article 142 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.

DAILY CAMP
Moinian 34th Street

Monitor: T. Pires

Date: 9-28-2012

Serial Number
Roaming PID 16447
Roaming Dust Trak _____

Calibration Results:
99.9 ppm
_____ mg/m3

Sketch (North →)



VOCs > 5ppm over 15-Min Average:

1. Invasive soil disturbing work temporarily halted.
2. Promptly notify FLS contact person.
3. Identify source of VOC levels and apply corrective actions
4. Work will only resume after levels have fallen below 5ppm

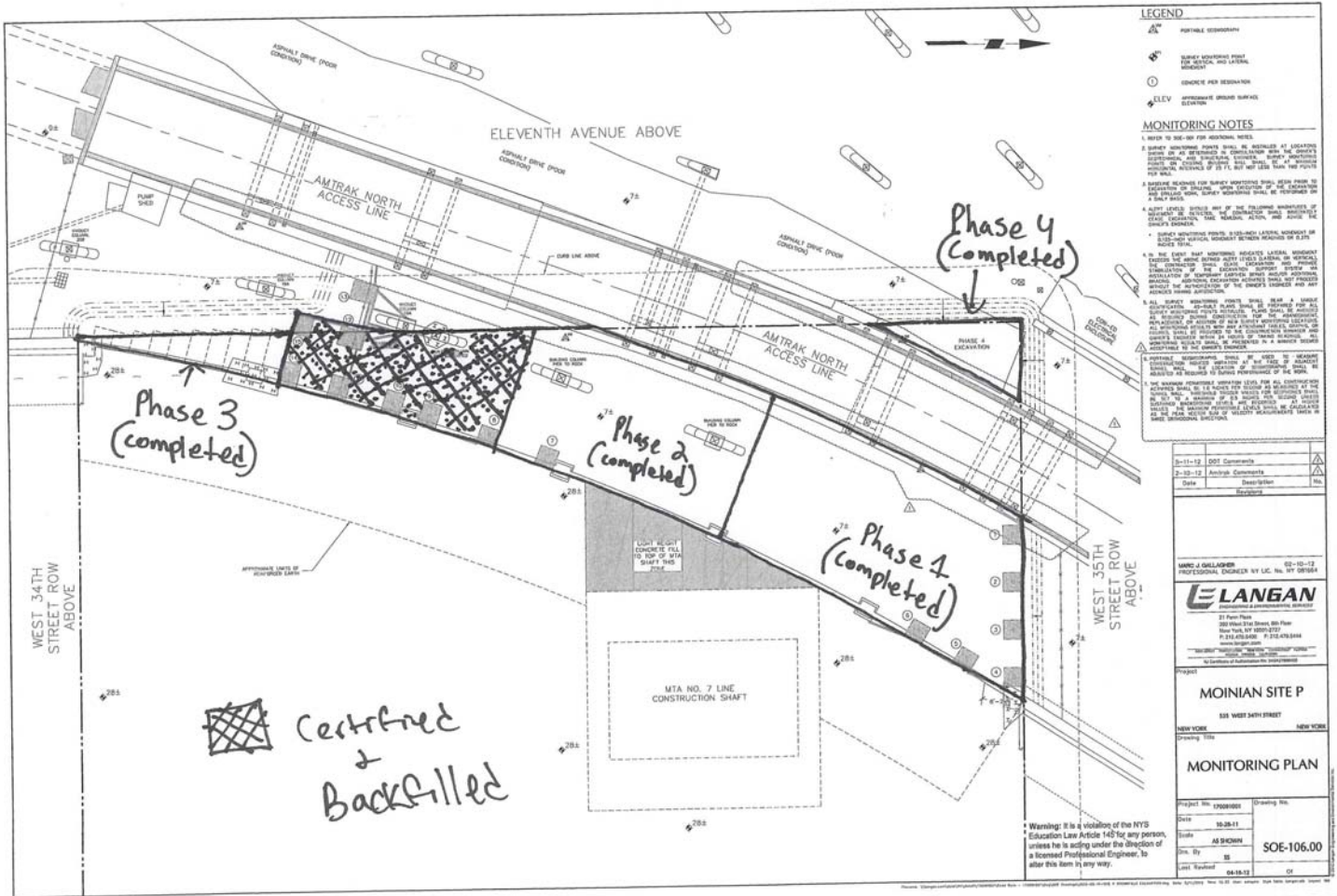
Downwind Particulates Observed or Particulates Leaving Work Area:

1. Work activities temporarily halted
2. Apply dust suppression measures.

Station		Roaming Monitor									
Time	Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction		Dust Trak	PID Reading	Odor (Y/N)	Comments	Wind Direction
06:00AM					N/A	12:00PM	0.0.5.	0.2	NO	—	N/A
06:30AM						12:30PM	0.0.5.	0.2	NO	—	N/A
07:00AM	0.0.5.	0.0	NO	—	N/A	13:00PM	0.0.5.	0.2	NO	—	N/A
07:30AM	0.0.5.	0.0	NO	—		13:30PM	0.0.5.	0.2	NO	—	N/A
08:00AM	0.0.5.	0.0	NO	—		14:00PM					
08:30AM	0.0.5.	0.1	NO	—		14:30PM					
09:00AM	0.0.5.	0.0	NO	—		15:00PM					
09:30AM	0.0.5.	0.2	NO	—		15:30PM					
10:00AM	0.0.5.	0.2	NO	—		16:00PM					
10:30AM	0.0.5.	0.2	NO	—		16:30PM					
11:00AM	0.0.5.	0.2	NO	—		17:00PM					
11:30AM	0.0.5.	0.2	NO	—		17:30PM					

FLS Contact Person: Kevin McGuinness 212-675-3225

9/28



LEGEND

- ▲ PORTABLE EQUIPMENT
- SURVEY MONITORING POINT FOR VERTICAL AND LATERAL MOVEMENT
- MONITORING PER DESIGNATION
- ▲ ELEV APPROXIMATE GROUND SURFACE ELEVATION

MONITORING NOTES

1. REFER TO SEE-88 FOR ADDITIONAL NOTES.
2. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AS DETAILLED IN CONSULTATION WITH THE OWNER'S ENGINEER, AND PROTECTED TO REMAIN ACCESSIBLE AT ALL TIMES. MINIMUM ACCESSIBLE RECORDS OF 10 FT. BUT NOT LESS THAN THE DEPTH OF THE POINT.
3. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AS DETAILLED IN CONSULTATION WITH THE OWNER'S ENGINEER, AND PROTECTED TO REMAIN ACCESSIBLE AT ALL TIMES. MINIMUM ACCESSIBLE RECORDS OF 10 FT. BUT NOT LESS THAN THE DEPTH OF THE POINT.
4. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AS DETAILLED IN CONSULTATION WITH THE OWNER'S ENGINEER, AND PROTECTED TO REMAIN ACCESSIBLE AT ALL TIMES. MINIMUM ACCESSIBLE RECORDS OF 10 FT. BUT NOT LESS THAN THE DEPTH OF THE POINT.
5. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON AS DETAILLED IN CONSULTATION WITH THE OWNER'S ENGINEER, AND PROTECTED TO REMAIN ACCESSIBLE AT ALL TIMES. MINIMUM ACCESSIBLE RECORDS OF 10 FT. BUT NOT LESS THAN THE DEPTH OF THE POINT.

Date	By	Description
10-11-12	BOB	Comments
10-12-12	AMTRAK	Comments

MANI A GALLAGHER
PROFESSIONAL ENGINEER NY LIC. NO. 97 09584

LANGAN

21 Park Place
200 Madison Street, 8th Floor
New York, NY 10007-1737
P: 212-213-2000 F: 212-213-2044
www.langan.com

Project: **MOIANIAN SITE P**
333 WEST 34TH STREET
NEW YORK, NEW YORK

Drawing Title: **MONITORING PLAN**

Project No.	170000000	Drawing No.	
Date	10-28-11	Scale	AS SHOWN
Drawn By	SS	City	SOE-106.00
Last Revised	04-18-12	Of	

Warning: It is a violation of the NYS Education Law Article 142 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this form in any way.