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November 16, 2012

New York City Office of Environmental Remediation
City Brownfield Cleanup Program
c/o Shaminder Chawla
100 Gold Street, 2nd Floor
New York, NY 10038

Re: Addendum Letter to Remedial Action Work Plan
249 North 7th Street (Site A) & 248 North 8th Street (Site B)
VCP #12CVCP068K & 12CVCP069K

Dear Mr. Chawla:

Hydro Tech Environmental hereby submits a letter for the additional project contents. This letter serves as an Addendum to the Remedial Action Work Plan dated July 2012 for the Subject Site. The additional content includes the following:

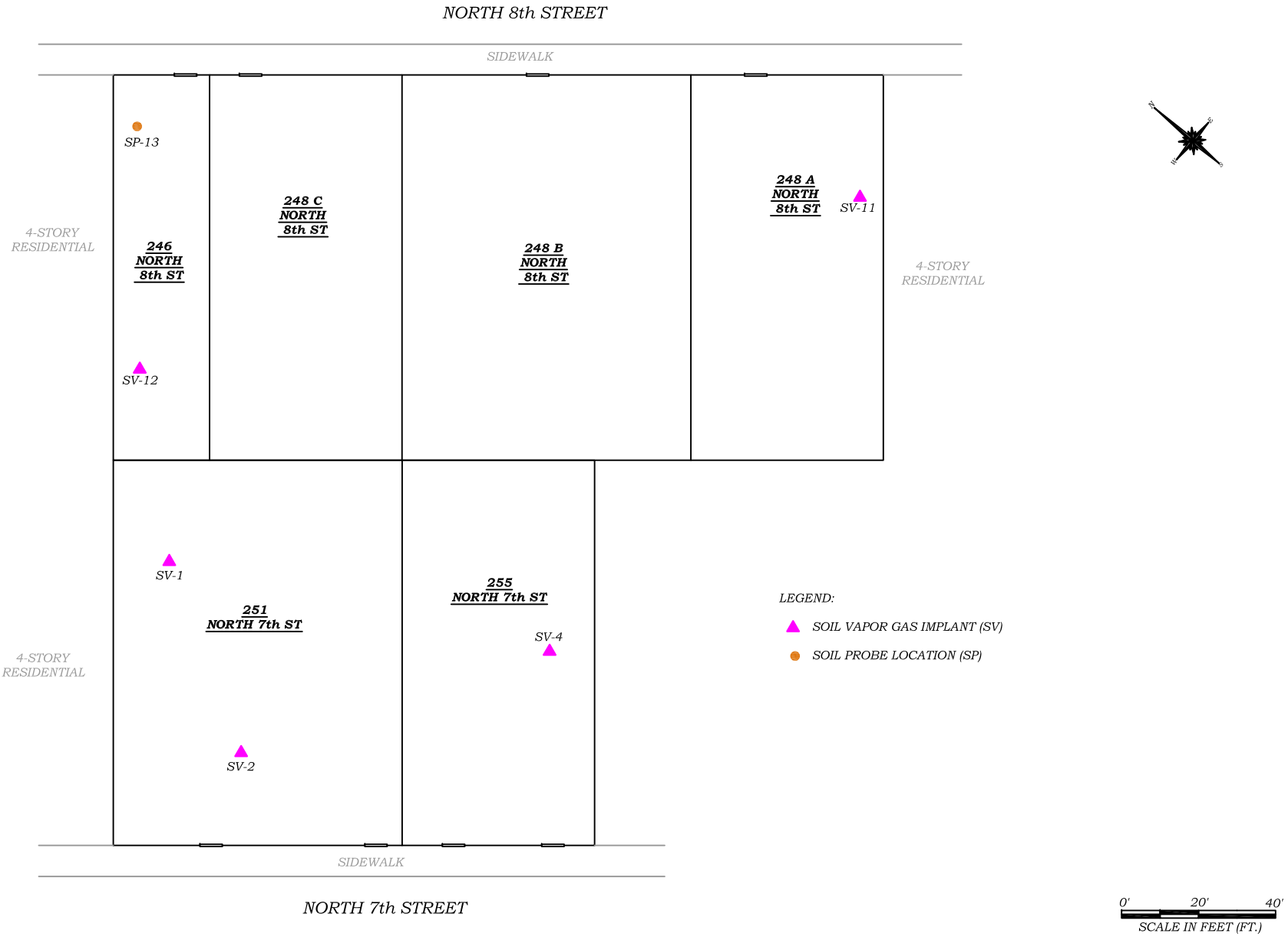
1- The additional investigation sampling plan is provided in Attachment #1.
2- The additional investigation sampling result tables are provided in Attachment #2.
3- The additional investigation laboratory analytical results are provided in Attachment #3.
4- The revised signed and stamped RA project description letter is provided in Attachment #5.
5- The revised signed and stamped RA drawings are provided in Attachment #4.

Please feel free to contact me at (718) 636-0800 with any questions.

Very Truly Yours
Hydro Tech Environmental, Corp.

Ezgi Karayel
Project Engineer

ATTACHMENT #1



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249 North 7th Street
248 North 8th Street
Brooklyn, NY.
HTE Job# 070090

Drawn By:	C.Q.
Reviewed By:	M.R
Approved By:	M.S
Date:	
Scale:	05/22/12

TITLE:

FIGURE 1: ADDITIONAL SAMPLING PLAN

ATTACHMENT #2

Table 1
Additional Soil Samples Organic Analytical Results
249 North 7th Street & 246 North 8th Street, Brooklyn, New York

Sample ID	SP-13	SP-13		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential
Sample Depth	0'-2'	8'-10'			
Sampling Date	10/26/2012	10/26/2012			
Matrix	Soil	Soil		Soil	Soil
Units	mg/kg dry	mg/kg dry		mg/Kg	mg/Kg
Volatile Organics, 8260 List					
1,1,1,2-Tetrachloroethane	<1.6	<470		NS	NS
1,1,1-Trichloroethane	<0.28	<85		680	100,000
1,1,2,2-Tetrachloroethane	<2.2	<670		NS	NS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<0.73	<220		NS	NS
1,1,2-Trichloroethane	<1.7	<510		NS	NS
1,1-Dichloroethane	<1.1	<340		270	19,000
1,1-Dichloroethylene	<0.91	<280		330	100,000
1,1-Dichloropropylene	<1.0	<310		NS	NS
1,2,3-Trichlorobenzene	<1.2	<360		NS	NS
1,2,3-Trichloropropane	<1.6	<480		NS	NS
1,2,4-Trichlorobenzene	<1.5	<450		NS	NS
1,2,4-Trimethylbenzene	<1.2	**2800**	J,D	3,600	47,000
1,2-Dibromo-3-chloropropane	<3.0	<900		NS	NS
1,2-Dibromoethane	<0.88	<270		NS	NS
1,2-Dichlorobenzene	<0.96	<290		1,100	100,000
1,2-Dichloroethane	<1.1	<340		20	2,300
1,2-Dichloropropane	<0.89	<270		NS	NS
1,3,5-Trimethylbenzene	<0.99	**620**	J,D	8,400	47,000
1,3-Dichlorobenzene	<1.3	<390		2,400	17,000
1,3-Dichloropropane	<1.4	<430		NS	NS
1,4-Dichlorobenzene	<1.6	<480		1,800	9,800
1,4-Dioxane	<29	<8,900		100	9,800
2,2-Dichloropropane	<1.0	<310		NS	NS
2-Butanone	<2.0	<590		120	100,000
2-Chlorotoluene	<0.9	<270		NS	NS
4-Chlorotoluene	<1.1	<340		NS	NS
Acetone	**29**	<4,400		50	100,000
Benzene	<1.1	<330		60	2,900
Bromobenzene	<1.4	<440		NS	NS
Bromochloromethane	<0.87	<260		NS	NS
Bromodichloromethane	<1.7	<500		NS	NS
Bromoform	<1.1	<320		NS	NS
Bromomethane	<2.5	<750		NS	NS
Carbon tetrachloride	<1.1	<330		760	1,400
Chlorobenzene	<1.1	<330		1,100	100,000
Chloroethane	<1.2	<370		NS	NS
Chloroform	<1.1	<340		370	10,000
Chloromethane	<1.2	<370		NS	NS
cis-1,2-Dichloroethylene	<0.65	<200		250	59,000
cis-1,3-Dichloropropylene	<1.0	<310		NS	NS
Dibromochloromethane	<1.3	<390		NS	NS
Dibromomethane	<1.4	<420		NS	NS
Dichlorodifluoromethane	<1.0	<310		NS	NS
Ethyl Benzene	<0.65	**2000**	J,D	1,000	30,000
Hexachlorobutadiene	<1.5	<460		NS	NS
Isopropylbenzene	<1.2	**1800**	J,D	NS	NS
Methyl tert-butyl ether (MTBE)	<0.82	<250		930	62,000
Methylene chloride	<2.0	<610		50	51,000
n-Butylbenzene	<0.98	<290		12,000	100,000
n-Propylbenzene	<0.93	<280		3,900	100,000
Naphthalene	<2.4	**42000**	D	12,000	100,000
o-Xylene	<0.82	**1800**	J,D	NS	NS
p- & m- Xylenes	<2.1	**2200**	J,D	NS	NS
p-Isopropyltoluene	<0.68	**1900**	J,D	NS	NS
sec-Butylbenzene	<1.0	<310		11,000	100,000
Styrene	<0.74	<220		NS	NS

tert-Butylbenzene	<1.0	<310	5,900	100,000
Tetrachloroethylene	<1.2	<360	1,300	5,500
Toluene	<0.86	<260	700	100,000
trans-1,2-Dichloroethylene	<1.2	<350	190	100,000
trans-1,3-Dichloropropylene	<1.2	<350	NS	NS
Trichloroethylene	**140**	<330	470	10,000
Trichlorofluoromethane	<0.79	<240	NS	NS
Vinyl acetate	<2.0	<610	NS	NS
Vinyl Chloride	<0.61	<180	20	210
Xylenes, Total	<1.3	**4100** J,D	260	100,000
Total VOCs	**169**	**59220**	NS	NS

Semi-Volatiles, 8270 Target List					
1,2,4-Trichlorobenzene	<66.8	<16200		NS	NS
1,2-Dichlorobenzene	<121	<29300		1,100	100,000
1,3-Dichlorobenzene	<58.3	<14200		2,400	17,000
1,4-Dichlorobenzene	<114	<27600		1,800	9,800
2,4,5-Trichlorophenol	<143	<34800		NS	NS
2,4,6-Trichlorophenol	<93.7	<22800		NS	NS
2,4-Dichlorophenol	<151	<36600		NS	NS
2,4-Dimethylphenol	<129	<31400		NS	NS
2,4-Dinitrophenol	<155	<37700		NS	NS
2,4-Dinitrotoluene	<81.5	<19800		NS	NS
2,6-Dinitrotoluene	<94.8	<23000		NS	NS
2-Chloronaphthalene	<99.6	<24200		NS	NS
2-Chlorophenol	<60.9	<14800		NS	NS
2-Methylnaphthalene	<142	**167000**	D	NS	NS
2-Methylphenol	<70.1	<17000		330	100,000
2-Nitroaniline	<161	<39100		NS	NS
2-Nitrophenol	<50.2	<12200		NS	NS
3,3'-Dichlorobenzidine	<96.7	<23500		NS	NS
3- & 4-Methylphenols	<80.1	<19500		NS	NS
3-Nitroaniline	<183	<44600		NS	NS
4,6-Dinitro-2-methylphenol	<232	<56500		NS	NS
4-Bromophenyl phenyl ether	<88.9	<21600		NS	NS
4-Chloro-3-methylphenol	<124	<30200		NS	NS
4-Chloroaniline	<48	<11700		NS	NS
4-Chlorophenyl phenyl ether	<108	<26300		NS	NS
4-Nitroaniline	<76.4	<18600		NS	NS
4-Nitrophenol	<69.4	<16900		NS	NS
Acenaphthene	<66.8	**71800**	D	20,000	100,000
Acenaphthylene	<88.5	<21500		NS	100,000
Aniline	<106	<25700		NS	NS
Anthracene	**197**	**54200**	D	100,000	100,000
Benzo(a)anthracene	**886**	**17100**	J,D	1,000	1,000
Benzo(a)pyrene	**1010**	<17800		1,000	1,000
Benzo(b)fluoranthene	**1310**	<37600		1,000	1,000
Benzo(g,h,i)perylene	<61.2	<14900		100,000	100,000
Benzo(k)fluoranthene	**930**	<44800		800	1,000
Benzyl alcohol	<184	<44800		NS	NS
Benzyl butyl phthalate	<102	<24800		NS	NS
Bis(2-chloroethoxy)methane	<63.5	<15400		NS	NS
Bis(2-chloroethyl)ether	<94.1	<22900		NS	NS
Bis(2-chloroisopropyl)ether	<64.9	<15800		NS	NS
Bis(2-ethylhexyl)phthalate	<127	<30900		NS	NS
Chrysene	**1210**	**23000**	J,D	1,000	1,000
Di-n-butyl phthalate	<74.9	<18200		NS	NS
Di-n-octyl phthalate	<184	<44800		NS	NS
Dibenzo(a,h)anthracene	<74.1	<18000		330	330
Dibenzofuran	<86	<20900		7,000	14,000
Diethyl phthalate	<116	<28200		NS	NS
Dimethyl phthalate	<82.3	<20000		NS	NS
Fluoranthene	**1130**	<26300		100,000	100,000
Fluorene	<88.5	<21500		30,000	100,000
Hexachlorobenzene	<109	<26500		330	330
Hexachlorobutadiene	<62.3	<15200		NS	NS
Hexachlorocyclopentadiene	<137	<33400		NS	NS
Hexachloroethane	<52.8	<12800		NS	NS
Indeno(1,2,3-cd)pyrene	**236**	<20400		500	500
Isophorone	<63.5	<15400		NS	NS
N-nitroso-di-n-propylamine	<61.6	<15000		NS	NS
N-Nitrosodimethylamine	<75.6	<18400		NS	NS
N-Nitrosodiphenylamine	<83.4	<20300		NS	NS
Naphthalene	<45.4	**363000**	D	12,000	100,000
Nitrobenzene	<54.2	<13200		NS	NS
Pentachlorophenol	<139	<33800		800	2,400
Phenanthrene	**974**	**406000**	D	100,000	100,000
Phenol	<79.7	<19400		330	100,000
Pyrene	**2040**	**51000**	D	100,000	100,000
Pyridine	<129	<31500		NS	NS

Pesticides/PCBs, EPA 8081/8082 List				
4,4'-DDD	<1.83	<6.66	3.3	2,600
4,4'-DDE	<1.83	<6.66	3.3	1,800
4,4'-DDT	<1.83	<6.66	3.3	1,700
Aldrin	<1.83	<6.66	5	19
alpha-BHC	<1.83	<6.66	20	97
Aroclor 1016	<18.8	<68.6	NS	NS
Aroclor 1221	<18.8	<68.6	NS	NS
Aroclor 1232	<18.8	<68.6	NS	NS
Aroclor 1242	<18.8	<68.6	NS	NS
Aroclor 1248	<18.8	<68.6	NS	NS
Aroclor 1254	<18.8	<68.6	NS	NS
Aroclor 1260	<18.8	<343	NS	NS
beta-BHC	<1.83	<6.66	36	72
Chlordane, total	<7.30	<26.6	NS	NS
delta-BHC	<1.83	<6.66	40	100,000
Dieldrin	<1.83	<6.66	5	39
Endosulfan I	<1.83	<6.66	2,400	4,800
Endosulfan II	<1.83	<6.66	2,400	4,800
Endosulfan sulfate	<1.83	<6.66	2,400	4,800
Endrin	<1.83	<6.66	14	2,200
Endrin aldehyde	<1.83	<6.66	NS	NS
Endrin ketone	<1.83	<6.66	NS	NS
gamma-BHC (Lindane)	<1.83	<6.66	100	280
Heptachlor	<1.83	<6.66	42	420
Heptachlor epoxide	<1.83	<6.66	NS	NS
Methoxychlor	<9.13	<33.3	NS	NS
Total PCBs	<7.53	<27.4	100	1,000
Toxaphene	<92.4	<337	NS	NS

ug/kg…micrograms per kilogram

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

D=result is from an analysis that required a dilution

NS=this indicates that no regulatory limit has been established for this analyte

Table 2

Additional Soil Samples Inorganic Analytical Results

249 North 7th Street & 246 North 8th Street, Brooklyn, New York

Sample ID	SP-13	SP-13	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential
Sample Depth	0'-2'	8'-10'		
Sampling Date	10/26/2012	10/26/2012		
Matrix	Soil	Soil	Soil	Soil
Units	mg/kg dry	mg/kg dry	mg/Kg	mg/Kg
Aluminum	**4700**	**14400**	NS	NS
Antimony	<0.243	<0.296	NS	NS
Arsenic	**16.1**	**4.27**	13	16
Barium	**186**	**38.2**	350	350
Beryllium	**0.584**	**0.795**	7.2	14
Cadmium	<0.111	<0.135	2.5	2.5
Calcium	**23100**	**1220**	NS	NS
Chromium	**20.5**	**14.7**	NS	NS
Cobalt	**6.05**	**5.83**	NS	NS
Copper	**117**	**6.70**	50	270
Iron	**15400**	**17700**	NS	NS
Lead	**220**	**8.27**	63	400
Magnesium	**2100**	**2340**	NS	NS
Manganese	**165**	**102**	1600	2000
Nickel	**24.8**	**20.0**	30	140
Potassium	**1100**	**955**	NS	NS
Selenium	**3.70**	**4.04**	3.9	36
Silver	<0.111	<0.135	2	36
Sodium	**546** B	**317** B	NS	NS
Thallium	<0.354	<0.430	NS	NS
Vanadium	**22.4**	**23.1**	NS	NS
Zinc	**141**	**32.4**	109	2200
Mercury	<0.104	<0.126	0.18	0.81
Chromium, Trivalent	**20.5**	**14.7**	30	36
Chromium, Hexavalent	<0.387	<0.471	1	22

mg/kg…milligrams per kilogram

B=analyte found in the analysis batch blank

NS=this indicates that no regulatory limit has been established for this analyte

Gray shaded values exceed Track 1 SCOS

Orange shaded values exceed Track 2 SCOs

Table 3
Additional Soil Vapor Samples Analytical Results
247 North 7th Street & 246 North 8th Street, Brooklyn, New York

Sample ID	SV-1 (Y-45)		SV-2 (Y-53)		SV-4 (S-14)		SV-11 (Y-66)		SV-12 (P-19)		NYSDOH Background Standards - Indoor Air
Sampling Date	11/6/2012		11/6/2012		11/6/2012		11/6/2012		11/6/2012		
Matrix	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Air
Units	ug/m³		ug/m³		ug/m³		ug/m³		ug/m³		ug/m3
Volatile Organics, EPA TO15 Full List											
1,1,1-Trichloroethane	<2.0		<1.3		<2.0		<1.6		<2.1		0.25
1,1,2,2-Tetrachloroethane	<3.4		<2.2		<3.3		<2.7		<3.5		0.25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	<1.1		<0.70		<1.1		<0.86		<1.1		NS
1,1,2-Trichloroethane	<2.8		<1.8		<2.8		<2.2		<2.9		0.25
1,1-Dichloroethane	<1.0		<0.64		<0.98		<0.78		<1.0		NS
1,1-Dichloroethylene	<1.2		<0.78		<1.2		<0.96		<1.3		0.25
1,2,4-Trichlorobenzene	<3.4		<2.1		<3.3		<2.6		<3.5		0.25
1,2,4-Trimethylbenzene	**1.2**	J	<0.78		**1.2**	J	<0.95		<1.2		0.69
1,2-Dibromoethane	<16		<10		<16		<12		<16		NS
1,2-Dichlorobenzene	<3.1		<2.0		<3.0		<2.4		<3.2		0.25
1,2-Dichloroethane	<2.0		<1.3		<2.0		<1.6		<2.1		0.25
1,2-Dichloropropane	<2.1		<1.3		<2.1		<1.6		<2.2		0.25
1,2-Dichlorotetrafluoroethane	<2.5		<1.6		<2.4		<1.9		<2.5		25
1,3,5-Trimethylbenzene	<1.3		<0.84		<1.3		<1.0		<1.4		0.27
1,3-Butadiene	<1.3		<0.85		<1.3		<1.0		<1.4		NS
1,3-Dichlorobenzene	<2.2		<1.4		<2.2		<1.7		<2.3		0.25
1,4-Dichlorobenzene	<2.7		<1.7		<2.7		<2.1		<2.8		0.25
1,4-Dioxane	<6.7		<4.3		<6.6		<5.2		<6.9		NS
2-Butanone	<2.4		<1.6		<2.4		<1.9		<2.5		NS
2-Hexanone	<4.7		<3.0		<4.6		<3.6		<4.8		NS
4-Methyl-2-pentanone	<3.0		<1.9		<3.0		<2.4		<3.1		NS
Acetone	**200**	D	<0.97		**75**	D	**130**	D	**180**	D	10
Benzene	<0.99		<0.63		<0.97		<0.77		<1.0		1.1
Benzyl chloride	<1.3		<0.82		<1.3		<1.0		<1.3		NS
Bromodichloromethane	<3.1		<2.0		<3.0		<2.4		<3.2		NS
Bromoform	<3.8		<2.4		<3.8		<3.0		<3.9		NS
Bromomethane	<0.96		<0.61		<0.94		<0.75		<0.99		NS
Carbon disulfide	**13**	D	<0.49		<0.76		**15**	D	<0.79		NS
Carbon tetrachloride	<1.6		<0.99		<1.5		<1.2		<1.6		0.25
Chlorobenzene	<1.7		<1.1		<1.7		<1.3		<1.8		0.25
Chloroethane	<0.65		<0.42		<0.64		<0.51		<0.67		NS
Chloroform	<1.5		<0.96		<1.5		<1.2		<1.6		0.25
Chloromethane	<1.3		<0.81		<1.3		<1.0		<1.3		0.25
cis-1,2-Dichloroethylene	<1.4		<0.89		<1.4		<1.1		<1.4		NS
cis-1,3-Dichloropropylene	<2.3		<1.5		<2.3		<1.8		<2.4		NS
Cyclohexane	<0.85		<0.54		<0.84		<0.67		<0.88		0.25
Dibromochloromethane	<17		<11		<16		<13		<17		NS
Dichlorodifluoromethane	<2.6		<1.6		<2.5		<2.0		<2.6		0.25
Ethyl acetate	<1.9		<1.2		<1.8		<1.5		<1.9		NS
Ethyl Benzene	<1.6		<1.0		**1.6**	J	<1.3		<1.7		0.41
Hexachlorobutadiene	<4.0		<2.5		<3.9		<3.1		<4.1		NS
Isopropanol	<1.8		<1.1		<1.7		**130**	D	<1.8		NS
Methyl Methacrylate	<8.5		<5.4		<8.3		<6.6		<8.7		NS
Methyl tert-butyl ether (MTBE)	<0.89		<0.57		<0.88		<0.70		<0.91		0.25
Methylene chloride	**8.6**	D	**5.5**	D	**9.1**	D	**11**	D	<1.8		0.31
n-Heptane	<1.0		<0.65		<1.0		<0.79		<1.0		1
n-Hexane	<0.87		<0.56		<0.86		<0.68		<0.90		0.63
o-Xylene	**9.9**	D	<1.0		**9.7**	D	<1.3		<1.7		0.39
p- & m- Xylenes	**22**	D	<1.9		**21**	D	**9.8**	D	**13**	D	0.5
p-Ethyltoluene	<1.8		<1.2		**1.8**	J	<1.4		<1.9		NS
Propylene	<1.6		<1.0		<1.6		<1.3		<1.7		NS
Styrene	<1.6		<1.0		<1.6		<1.2		<1.6		0.25
Tetrachloroethylene	<1.7		<1.1		<1.6		<1.3		<1.7		NS
Tetrahydrofuran	<1.5		<0.97		<1.5		**11**	D	<1.6		0.25
Toluene	**9.3**	D	<1.2		**8.4**	D	**12**	D	**1.9**	J	3.5
trans-1,2-Dichloroethylene	<0.98		<0.63		<0.96		<0.77		<1.0		NS
trans-1,3-Dichloropropylene	<1.7		<1.1		<1.7		<1.3		<1.7		NS
Trichloroethylene	<1.3		<0.85		<1.3		<1.0		**47**	D	NS
Trichlorofluoromethane (Freon 11)	<0.70		<0.44		<0.68		<0.54		<0.71		NS
Vinyl acetate	<1.1		<0.69		<1.1		<0.85		<1.1		NS
Vinyl Chloride	<1.3		<0.81		<1.2		<0.99		<1.3		0.25

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
D=result is from an analysis that required a dilution
NS=this indicates that no regulatory limit has been established for this analyte

ATTACHMENT #3

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)
15 Ocean Avenue
Brooklyn NY, 11225
Attention: Ezgi Karayel

Report Date: 11/07/2012
Client Project ID: #120208 249 N. 7th and 246 N. 8th Street, Brooklyn
York Project (SDG) No.: 12K0023

Report Date: 11/07/2012
Client Project ID: #120208 249 N. 7th and 246 N. 8th Street, Brooklyn
York Project (SDG) No.: 12K0023

Hydro Tech Environmental (Brooklyn)
15 Ocean Avenue
Brooklyn NY, 11225
Attention: Ezgi Karayel

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 31, 2012 and listed below. The project was identified as your project: **#120208 249 N. 7th and 246 N. 8th Street, Brooklyn**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
12K0023-01	SP-13 (0'-2')	Soil	10/26/2012	10/31/2012
12K0023-02	SP-13 (8'-10')	Soil	10/26/2012	10/31/2012

General Notes for York Project (SDG) No.: 12K0023

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 11/07/2012

Robert Q. Bradley
Executive Vice President / Laboratory Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (0'-2') **York Sample ID:** 12K0023-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.6	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.28	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.73	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.7	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.91	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.2	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.6	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.5	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.0	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.88	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.96	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.89	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.99	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.3	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.6	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	29	110	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.0	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.90	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
67-64-1	**Acetone**	**29**		ug/kg dry	15	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
71-43-2	Benzene	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.87	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.7	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-25-2	Bromoform	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.5	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (0'-2') **York Sample ID:** 12K0023-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-00-3	Chloroethane	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
67-66-3	Chloroform	ND		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.65	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.3	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.4	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.65	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.5	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.82	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.0	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.4	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.98	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.93	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.82	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	2.1	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.68	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
100-42-5	Styrene	ND		ug/kg dry	0.74	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.0	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
108-88-3	Toluene	ND		ug/kg dry	0.86	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.2	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
79-01-6	**Trichloroethylene**	**140**		ug/kg dry	1.1	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.79	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	2.0	22	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.61	11	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	1.3	33	1	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 03:48	SS

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (0'-2')

York Sample ID: 12K0023-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Semi-Volatiles, 8270 Target List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	66.8	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	121	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	58.3	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	114	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	143	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	93.7	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	151	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	129	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	155	369	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	81.5	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	94.8	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	99.6	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.9	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	142	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	70.1	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	161	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	50.2	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
100-01-6	3- & 4-Methylphenols	ND		ug/kg dry	80.1	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	96.7	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	183	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	232	369	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	88.9	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	124	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.0	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	108	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	76.4	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	69.4	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
83-32-9	Acenaphthene	ND		ug/kg dry	66.8	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	88.5	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
62-53-3	Aniline	ND		ug/kg dry	106	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
120-12-7	**Anthracene**	**197**		ug/kg dry	101	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
56-55-3	**Benzo(a)anthracene**	**886**		ug/kg dry	69.0	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
50-32-8	**Benzo(a)pyrene**	**1010**		ug/kg dry	73.0	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
205-99-2	**Benzo(b)fluoranthene**	**1310**		ug/kg dry	155	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	61.2	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (0'-2')

York Sample ID: 12K0023-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Semi-Volatiles, 8270 Target List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	**Benzo(k)fluoranthene**	**930**		ug/kg dry	184	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	184	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	102	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	63.5	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	94.1	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	64.9	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	127	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
218-01-9	**Chrysene**	**1210**		ug/kg dry	84.8	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	74.1	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	86.0	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	116	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	82.3	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	74.9	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	184	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
206-44-0	**Fluoranthene**	**1130**		ug/kg dry	108	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
86-73-7	Fluorene	ND		ug/kg dry	88.5	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	109	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	62.3	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	137	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	52.8	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**236**		ug/kg dry	84.1	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
78-59-1	Isophorone	ND		ug/kg dry	63.5	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
91-20-3	Naphthalene	ND		ug/kg dry	45.4	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	54.2	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	75.6	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	61.6	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	83.4	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	139	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
85-01-8	**Phenanthrene**	**974**		ug/kg dry	96.3	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
108-95-2	Phenol	ND		ug/kg dry	79.7	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
129-00-0	**Pyrene**	**2040**		ug/kg dry	75.3	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR
110-86-1	Pyridine	ND		ug/kg dry	129	184	1	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 15:59	SR

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (0'-2') **York Sample ID:** 12K0023-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Pesticides/PCBs, EPA 8081/8082 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
309-00-2	Aldrin	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	18.8	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.30	7.30	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
72-20-8	Endrin	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.83	1.83	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.13	9.13	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW
1336-36-3	Total PCBs	ND		ug/kg dry	7.53	18.8	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:26	JW
8001-35-2	Toxaphene	ND		ug/kg dry	92.4	92.4	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:07	JW

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **SP-13 (0'-2')** **York Sample ID:** **12K0023-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4700**		mg/kg dry	1.13	2.21	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-36-0	Antimony	ND		mg/kg dry	0.243	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-38-2	**Arsenic**	**16.1**		mg/kg dry	0.376	1.11	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-39-3	**Barium**	**186**		mg/kg dry	0.144	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-41-7	**Beryllium**	**0.584**		mg/kg dry	0.111	0.111	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.111	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-70-2	**Calcium**	**23100**		mg/kg dry	0.044	5.53	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-47-3	**Chromium**	**20.5**		mg/kg dry	0.133	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-48-4	**Cobalt**	**6.05**		mg/kg dry	0.089	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-50-8	**Copper**	**117**		mg/kg dry	0.133	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7439-89-6	**Iron**	**15400**		mg/kg dry	0.719	2.21	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7439-92-1	**Lead**	**220**		mg/kg dry	0.188	0.332	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7439-95-4	**Magnesium**	**2100**		mg/kg dry	0.498	5.53	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7439-96-5	**Manganese**	**165**		mg/kg dry	0.122	1.11	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-02-0	**Nickel**	**24.8**		mg/kg dry	0.144	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-09-7	**Potassium**	**1100**		mg/kg dry	3.74	11.1	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7782-49-2	**Selenium**	**3.70**		mg/kg dry	0.553	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-22-4	Silver	ND		mg/kg dry	0.111	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-23-5	**Sodium**	**546**	B	mg/kg dry	5.83	11.1	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-28-0	Thallium	ND		mg/kg dry	0.354	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-62-2	**Vanadium**	**22.4**		mg/kg dry	0.122	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW
7440-66-6	**Zinc**	**141**		mg/kg dry	0.100	0.553	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:40	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.104	0.111	1	EPA SW846-7471	11/02/2012 08:41	11/02/2012 17:10	AA

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (0'-2') **York Sample ID:** 12K0023-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**90.4**		%	0.100	0.100	1	SM 2540G	11/05/2012 15:14	11/05/2012 15:14	JCC

Chromium, Hexavalent

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.387	0.553	1	SW846-7196A	11/02/2012 15:13	11/02/2012 15:13	AMC

Chromium, Trivalent

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	**Chromium, Trivalent**	**20.5**		mg/kg	0.250	0.500	1	CALCULATION	11/05/2012 09:18	11/05/2012 09:24	AD

Sample Information

Client Sample ID: SP-13 (8'-10') **York Sample ID:** 12K0023-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	470	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	85	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	670	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	220	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	510	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	340	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	280	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	310	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	360	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	480	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	450	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
95-63-6	**1,2,4-Trimethylbenzene**	**2800**	J	ug/kg dry	370	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	900	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	270	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	290	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	340	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (8'-10') **York Sample ID:** 12K0023-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Volatile Organics, 8260 List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	270	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
108-67-8	**1,3,5-Trimethylbenzene**	**620**	J	ug/kg dry	300	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	390	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	430	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	480	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	8900	34000	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	310	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
78-93-3	2-Butanone	ND		ug/kg dry	590	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	270	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	340	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
67-64-1	Acetone	ND		ug/kg dry	4400	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
71-43-2	Benzene	ND		ug/kg dry	330	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
108-86-1	Bromobenzene	ND		ug/kg dry	440	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	260	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	500	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-25-2	Bromoform	ND		ug/kg dry	320	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
74-83-9	Bromomethane	ND		ug/kg dry	750	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	330	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	330	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-00-3	Chloroethane	ND		ug/kg dry	370	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
67-66-3	Chloroform	ND		ug/kg dry	340	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
74-87-3	Chloromethane	ND		ug/kg dry	370	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	200	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	310	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	390	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
74-95-3	Dibromomethane	ND		ug/kg dry	420	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	310	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
100-41-4	**Ethyl Benzene**	**2000**	J	ug/kg dry	200	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	460	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
98-82-8	**Isopropylbenzene**	**1800**	J	ug/kg dry	360	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-09-2	Methylene chloride	ND		ug/kg dry	610	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
91-20-3	**Naphthalene**	**42000**		ug/kg dry	730	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	290	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	280	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (8'-10') **York Sample ID:** 12K0023-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Volatile Organics, 8260 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	**o-Xylene**	**1800**	J	ug/kg dry	250	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
1330-20-7P/M	**p- & m- Xylenes**	**2200**	J	ug/kg dry	630	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
99-87-6	**p-Isopropyltoluene**	**1900**	J	ug/kg dry	210	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	310	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
100-42-5	Styrene	ND		ug/kg dry	220	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	310	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	360	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
108-88-3	Toluene	ND		ug/kg dry	260	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	350	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	350	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	330	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	240	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
108-05-4	Vinyl acetate	ND		ug/kg dry	610	6700	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	180	3400	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS
1330-20-7	**Xylenes, Total**	**4100**	J	ug/kg dry	400	10000	500	EPA SW846-8260B	11/02/2012 12:20	11/03/2012 04:23	SS

Semi-Volatiles, 8270 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	16200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	29300	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	14200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	27600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	34800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	22800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	36600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	31400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	37700	89700	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	19800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	23000	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	24200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	14800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
91-57-6	**2-Methylnaphthalene**	**167000**		ug/kg dry	34400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	17000	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	39100	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	12200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (8'-10') **York Sample ID:** 12K0023-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Semi-Volatiles, 8270 Target List **Log-in Notes:** VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	3- & 4-Methylphenols	ND		ug/kg dry	19500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	23500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	44600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	56500	89700	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	21600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	30200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	11700	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	26300	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	18600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	16900	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
83-32-9	**Acenaphthene**	**71800**		ug/kg dry	16200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	21500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
62-53-3	Aniline	ND		ug/kg dry	25700	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
120-12-7	**Anthracene**	**54200**		ug/kg dry	24500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
56-55-3	**Benzo(a)anthracene**	**17100**	J	ug/kg dry	16800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	17800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	37600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	14900	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	44800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	44800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	24800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	15400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	22900	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	15800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	30900	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
218-01-9	**Chrysene**	**23000**	J	ug/kg dry	20600	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	18000	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	20900	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	28200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	20000	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	18200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	44800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
206-44-0	Fluoranthene	ND		ug/kg dry	26300	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
86-73-7	Fluorene	ND		ug/kg dry	21500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	26500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (8'-10') **York Sample ID:** 12K0023-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Semi-Volatiles, 8270 Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	15200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	33400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	12800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	20400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
78-59-1	Isophorone	ND		ug/kg dry	15400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
91-20-3	**Naphthalene**	**363000**		ug/kg dry	11000	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	13200	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	18400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	15000	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	20300	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	33800	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
85-01-8	**Phenanthrene**	**406000**		ug/kg dry	23400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
108-95-2	Phenol	ND		ug/kg dry	19400	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
129-00-0	**Pyrene**	**51000**		ug/kg dry	18300	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR
110-86-1	Pyridine	ND		ug/kg dry	31500	44800	200	EPA SW-846 8270C	11/05/2012 07:22	11/06/2012 20:33	SR

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
309-00-2	Aldrin	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
319-84-6	alpha-BHC	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	68.6	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	68.6	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	68.6	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	68.6	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	68.6	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	68.6	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	343	343	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
319-85-7	beta-BHC	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
57-74-9	Chlordane, total	ND		ug/kg dry	26.6	26.6	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
319-86-8	delta-BHC	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
60-57-1	Dieldrin	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
959-98-8	Endosulfan I	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SP-13 (8'-10')

York Sample ID: 12K0023-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Pesticides/PCBs, EPA 8081/8082 List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
72-20-8	Endrin	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
76-44-8	Heptachlor	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	6.66	6.66	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
72-43-5	Methoxychlor	ND		ug/kg dry	33.3	33.3	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW
1336-36-3	Total PCBs	ND		ug/kg dry	27.4	68.6	1	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:46	JW
8001-35-2	Toxaphene	ND		ug/kg dry	337	337	5	EPA SW 846-8081/8082	11/06/2012 07:28	11/06/2012 16:22	JW

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14400**		mg/kg dry	1.37	2.69	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-36-0	Antimony	ND		mg/kg dry	0.296	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-38-2	**Arsenic**	**4.27**		mg/kg dry	0.457	1.35	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-39-3	**Barium**	**38.2**		mg/kg dry	0.175	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-41-7	**Beryllium**	**0.795**		mg/kg dry	0.135	0.135	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.135	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-70-2	**Calcium**	**1220**		mg/kg dry	0.054	6.73	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-47-3	**Chromium**	**14.7**		mg/kg dry	0.161	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-48-4	**Cobalt**	**5.83**		mg/kg dry	0.108	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-50-8	**Copper**	**6.70**		mg/kg dry	0.161	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7439-89-6	**Iron**	**17700**		mg/kg dry	0.874	2.69	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7439-92-1	**Lead**	**8.27**		mg/kg dry	0.229	0.404	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7439-95-4	**Magnesium**	**2340**		mg/kg dry	0.605	6.73	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7439-96-5	**Manganese**	**102**		mg/kg dry	0.148	1.35	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-02-0	**Nickel**	**20.0**		mg/kg dry	0.175	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-09-7	**Potassium**	**955**		mg/kg dry	4.55	13.5	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7782-49-2	**Selenium**	**4.04**		mg/kg dry	0.673	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-22-4	Silver	ND		mg/kg dry	0.135	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-23-5	**Sodium**	**317**	B	mg/kg dry	7.09	13.5	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-28-0	Thallium	ND		mg/kg dry	0.430	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW
7440-62-2	**Vanadium**	**23.1**		mg/kg dry	0.148	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW

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Sample Information

Client Sample ID: **SP-13 (8'-10')** **York Sample ID:** **12K0023-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0023	#120208 249 N. 7th and 246 N. 8th Street, Brooklyn	Soil	October 26, 2012 3:00 pm	10/31/2012

Metals, Target Analyte

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**32.4**		mg/kg dry	0.121	0.673	1	EPA SW846-6010B	11/01/2012 15:28	11/01/2012 21:45	MW

Mercury by 7470/7471

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.126	0.135	1	EPA SW846-7471	11/02/2012 08:41	11/02/2012 17:10	AA

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	**% Solids**	**74.3**		%	0.100	0.100	1	SM 2540G	11/05/2012 15:14	11/05/2012 15:14	JCC

Chromium, Hexavalent

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.471	0.673	1	SW846-7196A	11/02/2012 15:13	11/02/2012 15:13	AMC

Chromium, Trivalent

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	**Chromium, Trivalent**	**14.7**		mg/kg	0.250	0.500	1	CALCULATION	11/05/2012 09:18	11/05/2012 09:24	AD

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
12K0023-01	SP-13 (0'-2')	8 oz. WM Clear Glass Cool to 4° C
12K0023-02	SP-13 (8'-10')	8 oz. WM Clear Glass Cool to 4° C

Notes and Definitions

VOA-CONT NON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.

B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 12K0023

YOUR Information	Report To:	Invoice To:
Company: Hydro Tech Env. Corp.	Company:	Company:
Address: 15 Ocean Avenue, 2nd Floor, Brooklyn, NY	Address:	Address: 77 Arkay Drive, Suite: G, Hauppauge, NY
Phone No. 718-636-0800	Phone No.	Phone No. 631-462-5866
Contact Person: Ezgi Karayel	Attention:	Attention: Muslima Ward
E-Mail Address: ekarayel@hydrotechenvironmental.com	E-Mail Address:	E-Mail Address: mward@atecorp.info

YOUR Project ID
#120208
249 N 7th and 246 N 8th Street, Brooklyn

Purchase Order No.
5495

Samples from: CT___ NY X NJ___

Turn-Around Time
- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) X

Report Type/Deliverables
- Summary Report ____
- Summary w/ QA Summary ____
- CT RCP Package ____
- NY ASP A Package ____
- NY ASP B Package ____
- *Electronic Deliverables:*
- EDD (Specify Type) X
- Excel ____

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Ezgi Karayel
Name (printed)

Matrix Codes
- S - soil
- Other - specify(oil, etc.)
- WW - wastewater
- GW - groundwater
- DW - drinking water
- Air-A - ambient air
- Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point	Tot.Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.	Tot. Phos.	COD
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.only	NJDEP list	App. IX	Chlordane	Indis. Metals	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions
- Field Filtered ☐
- Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SP-13 (0'-2')	10/26/12	S	8260, 8270, 8081/8082, TAL metals, chromium trivalent, chromium hexavalent	1-2oz, 1-8oz
SP-13 (8'-10')	10/26/12	S	↓ ↓ ↓ ↓ ↓	↓

Comments
The results need to be compared to Unrestricted Soil Cleanup Objectives and Restricted Use Soil Cleanup Objectives - Residential
Ezgi

Preservation Check those Applicable: 4°C____ Frozen____ HCl____ MeOH____ HNO_3____ H_2SO_4____ NaOH____ ZnAc____ Ascorbic Acid____ Other____

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	10/31/12 11:30		10-31-12 1130 AM
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
		Grace	10-31-12 1630

Temperature on Receipt 4.4 °C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Hydro Tech Environmental (Brooklyn)
15 Ocean Avenue
Brooklyn NY, 11225
Attention: Ezgi Karayel

Report Date: 11/13/2012
Client Project ID: #120208-247 N 7th-246 N 8th Street, Brooklyn, NY
York Project (SDG) No.: 12K0166

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854 PA License No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/13/2012
Client Project ID: #120208-247 N 7th-246 N 8th Street, Brooklyn, NY
York Project (SDG) No.: 12K0166

Hydro Tech Environmental (Brooklyn)
15 Ocean Avenue
Brooklyn NY, 11225
Attention: Ezgi Karayel

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 07, 2012 and listed below. The project was identified as your project: **#120208-247 N 7th-246 N 8th Street, Brooklyn, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
12K0166-01	SV-1 (Y-45)	Soil Vapor	11/06/2012	11/07/2012
12K0166-02	SV-2 (Y-53)	Soil Vapor	11/06/2012	11/07/2012
12K0166-03	SV-4 (S-14)	Soil Vapor	11/06/2012	11/07/2012
12K0166-04	SV-11 (Y-66)	Soil Vapor	11/06/2012	11/07/2012
12K0166-05	SV-12 (P-19)	Soil Vapor	11/06/2012	11/07/2012

General Notes for York Project (SDG) No.: 12K0166

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: **Date:** 11/13/2012

Robert Q. Bradley
Executive Vice President / Laboratory Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **SV-1 (Y-45)** **York Sample ID:** **12K0166-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	2.0	11	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	3.4	14	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	16	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.8	11	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	1.0	8.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.2	8.2	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	3.4	15	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	1.2	51	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	16	16	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	3.1	12	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	2.0	8.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	2.1	9.6	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	2.5	14	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	1.3	20	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
106-99-0	1,3-Butadiene	ND		ug/m³	1.3	9.0	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	2.2	12	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	2.7	12	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
123-91-1	1,4-Dioxane	ND		ug/m³	6.7	74	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
78-93-3	2-Butanone	ND		ug/m³	2.4	6.1	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
591-78-6	2-Hexanone	ND		ug/m³	4.7	17	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	3.0	8.5	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
67-64-1	**Acetone**	**200**		ug/m³	1.5	4.9	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
71-43-2	Benzene	ND		ug/m³	0.99	6.6	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
100-44-7	Benzyl chloride	ND		ug/m³	1.3	11	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-27-4	Bromodichloromethane	ND		ug/m³	3.1	13	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-25-2	Bromoform	ND		ug/m³	3.8	21	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
74-83-9	Bromomethane	ND		ug/m³	0.96	8.0	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-15-0	**Carbon disulfide**	**13**		ug/m³	0.77	6.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	1.6	6.5	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
108-90-7	Chlorobenzene	ND		ug/m³	1.7	9.5	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-00-3	Chloroethane	ND		ug/m³	0.65	5.5	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
67-66-3	Chloroform	ND		ug/m³	1.5	10	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
74-87-3	Chloromethane	ND		ug/m³	1.3	4.3	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.4	8.2	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **SV-1 (Y-45)** **York Sample ID:** **12K0166-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	2.3	9.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
110-82-7	Cyclohexane	ND		ug/m³	0.85	7.1	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
124-48-1	Dibromochloromethane	ND		ug/m³	17	17	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m³	2.6	10	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
141-78-6	Ethyl acetate	ND		ug/m³	1.9	7.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
100-41-4	Ethyl Benzene	ND		ug/m³	1.6	9.0	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
87-68-3	Hexachlorobutadiene	ND		ug/m³	4.0	22	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
67-63-0	Isopropanol	ND		ug/m³	1.8	5.1	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
80-62-6	Methyl Methacrylate	ND		ug/m³	8.5	8.5	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.89	7.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-09-2	**Methylene chloride**	**8.6**		ug/m³	1.7	7.2	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
142-82-5	n-Heptane	ND		ug/m³	1.0	8.5	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
110-54-3	n-Hexane	ND		ug/m³	0.87	7.3	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
95-47-6	**o-Xylene**	**9.9**		ug/m³	1.6	9.0	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
1330-20-7P/M	**p- & m- Xylenes**	**22**		ug/m³	3.1	9.0	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
622-96-8	p-Ethyltoluene	ND		ug/m³	1.8	51	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
115-07-01	Propylene	ND		ug/m³	1.6	3.6	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
100-42-5	Styrene	ND		ug/m³	1.6	8.8	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
127-18-4	Tetrachloroethylene	ND		ug/m³	1.7	14	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
109-99-9	Tetrahydrofuran	ND		ug/m³	1.5	6.1	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
108-88-3	**Toluene**	**9.3**		ug/m³	1.9	7.8	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.98	8.2	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.7	9.4	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
79-01-6	Trichloroethylene	ND		ug/m³	1.3	5.6	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.70	12	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
108-05-4	Vinyl acetate	ND		ug/m³	1.1	15	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD
75-01-4	Vinyl Chloride	ND		ug/m³	1.3	11	20.32	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 20:39	TD

Sample Information

Client Sample ID: **SV-2 (Y-53)** **York Sample ID:** **12K0166-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SV-2 (Y-53) **York Sample ID:** 12K0166-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.3	7.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	2.2	9.0	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.70	10	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.8	7.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.64	5.3	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.78	5.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.1	9.8	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.78	32	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	10	10	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	2.0	7.9	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	1.3	5.3	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	1.3	6.1	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.6	9.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.84	13	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
106-99-0	1,3-Butadiene	ND		ug/m³	0.85	5.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.4	7.9	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.7	7.9	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
123-91-1	1,4-Dioxane	ND		ug/m³	4.3	47	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
78-93-3	2-Butanone	ND		ug/m³	1.6	3.9	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
591-78-6	2-Hexanone	ND		ug/m³	3.0	11	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	1.9	5.4	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
67-64-1	Acetone	ND		ug/m³	0.97	3.1	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
71-43-2	Benzene	ND		ug/m³	0.63	4.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
100-44-7	Benzyl chloride	ND		ug/m³	0.82	6.8	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-27-4	Bromodichloromethane	ND		ug/m³	2.0	8.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-25-2	Bromoform	ND		ug/m³	2.4	14	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
74-83-9	Bromomethane	ND		ug/m³	0.61	5.1	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-15-0	Carbon disulfide	ND		ug/m³	0.49	4.1	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	0.99	4.1	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
108-90-7	Chlorobenzene	ND		ug/m³	1.1	6.0	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-00-3	Chloroethane	ND		ug/m³	0.42	3.5	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
67-66-3	Chloroform	ND		ug/m³	0.96	6.4	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
74-87-3	Chloromethane	ND		ug/m³	0.81	2.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.89	5.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SV-2 (Y-53) **York Sample ID:** 12K0166-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	1.5	6.0	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
110-82-7	Cyclohexane	ND		ug/m³	0.54	4.5	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
124-48-1	Dibromochloromethane	ND		ug/m³	11	11	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m³	1.6	6.5	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
141-78-6	Ethyl acetate	ND		ug/m³	1.2	4.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
100-41-4	Ethyl Benzene	ND		ug/m³	1.0	5.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
87-68-3	Hexachlorobutadiene	ND		ug/m³	2.5	14	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
67-63-0	Isopropanol	ND		ug/m³	1.1	3.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
80-62-6	Methyl Methacrylate	ND		ug/m³	5.4	5.4	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.57	4.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-09-2	**Methylene chloride**	**5.5**		ug/m³	1.1	4.6	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
142-82-5	n-Heptane	ND		ug/m³	0.65	5.4	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
110-54-3	n-Hexane	ND		ug/m³	0.56	4.6	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
95-47-6	o-Xylene	ND		ug/m³	1.0	5.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
1330-20-7P/M	p- & m- Xylenes	ND		ug/m³	1.9	5.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
622-96-8	p-Ethyltoluene	ND		ug/m³	1.2	32	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
115-07-01	Propylene	ND		ug/m³	1.0	2.3	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
100-42-5	Styrene	ND		ug/m³	1.0	5.6	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
127-18-4	Tetrachloroethylene	ND		ug/m³	1.1	8.9	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
109-99-9	Tetrahydrofuran	ND		ug/m³	0.97	3.9	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
108-88-3	Toluene	ND		ug/m³	1.2	5.0	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.63	5.2	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.1	6.0	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
79-01-6	Trichloroethylene	ND		ug/m³	0.85	3.5	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.44	7.4	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
108-05-4	Vinyl acetate	ND		ug/m³	0.69	9.3	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD
75-01-4	Vinyl Chloride	ND		ug/m³	0.81	6.7	12.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 21:24	TD

Sample Information

Client Sample ID: SV-4 (S-14) **York Sample ID:** 12K0166-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SV-4 (S-14) **York Sample ID:** 12K0166-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	2.0	11	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	3.3	14	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	16	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.8	11	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.98	8.2	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.2	8.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	3.3	15	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	1.2	50	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	16	16	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	3.0	12	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	2.0	8.2	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	2.1	9.4	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	2.4	14	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	1.3	20	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
106-99-0	1,3-Butadiene	ND		ug/m³	1.3	8.8	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	2.2	12	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	2.7	12	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
123-91-1	1,4-Dioxane	ND		ug/m³	6.6	73	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
78-93-3	2-Butanone	ND		ug/m³	2.4	6.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
591-78-6	2-Hexanone	ND		ug/m³	4.6	17	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	3.0	8.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
67-64-1	**Acetone**	**75**		ug/m³	1.5	4.8	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
71-43-2	Benzene	ND		ug/m³	0.97	6.5	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
100-44-7	Benzyl chloride	ND		ug/m³	1.3	10	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-27-4	Bromodichloromethane	ND		ug/m³	3.0	13	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-25-2	Bromoform	ND		ug/m³	3.8	21	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
74-83-9	Bromomethane	ND		ug/m³	0.94	7.9	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-15-0	Carbon disulfide	ND		ug/m³	0.76	6.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	1.5	6.4	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
108-90-7	Chlorobenzene	ND		ug/m³	1.7	9.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-00-3	Chloroethane	ND		ug/m³	0.64	5.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
67-66-3	Chloroform	ND		ug/m³	1.5	9.9	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
74-87-3	Chloromethane	ND		ug/m³	1.3	4.2	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.4	8.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	2.3	9.2	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SV-4 (S-14) **York Sample ID:** 12K0166-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	ND		ug/m³	0.84	7.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
124-48-1	Dibromochloromethane	ND		ug/m³	16	16	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m³	2.5	10	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
141-78-6	Ethyl acetate	ND		ug/m³	1.8	7.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
100-41-4	Ethyl Benzene	ND		ug/m³	1.6	8.8	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
87-68-3	Hexachlorobutadiene	ND		ug/m³	3.9	22	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
67-63-0	Isopropanol	ND		ug/m³	1.7	5.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
80-62-6	Methyl Methacrylate	ND		ug/m³	8.3	8.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.88	7.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-09-2	**Methylene chloride**	**9.1**		ug/m³	1.7	7.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
142-82-5	n-Heptane	ND		ug/m³	1.0	8.3	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
110-54-3	n-Hexane	ND		ug/m³	0.86	7.1	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
95-47-6	**o-Xylene**	**9.7**		ug/m³	1.6	8.8	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
1330-20-7P/M	**p- & m- Xylenes**	**21**		ug/m³	3.0	8.8	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
622-96-8	p-Ethyltoluene	ND		ug/m³	1.8	50	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
115-07-01	Propylene	ND		ug/m³	1.6	3.5	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
100-42-5	Styrene	ND		ug/m³	1.6	8.6	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
127-18-4	Tetrachloroethylene	ND		ug/m³	1.6	14	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
109-99-9	Tetrahydrofuran	ND		ug/m³	1.5	6.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
108-88-3	**Toluene**	**8.4**		ug/m³	1.8	7.6	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.96	8.0	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.7	9.2	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
79-01-6	Trichloroethylene	ND		ug/m³	1.3	5.4	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.68	11	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
108-05-4	Vinyl acetate	ND		ug/m³	1.1	14	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD
75-01-4	Vinyl Chloride	ND		ug/m³	1.2	10	19.92	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:08	TD

Sample Information

Client Sample ID: SV-11 (Y-66) **York Sample ID:** 12K0166-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SV-11 (Y-66) **York Sample ID:** 12K0166-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.6	8.8	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	2.7	11	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.86	12	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.2	8.8	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.78	6.5	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.96	6.4	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	2.6	12	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.95	40	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	12	12	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	2.4	9.7	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	1.6	6.5	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	1.6	7.4	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.9	11	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	1.0	16	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
106-99-0	1,3-Butadiene	ND		ug/m³	1.0	7.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.7	9.7	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	2.1	9.7	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
123-91-1	1,4-Dioxane	ND		ug/m³	5.2	58	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
78-93-3	2-Butanone	ND		ug/m³	1.9	4.7	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
591-78-6	2-Hexanone	ND		ug/m³	3.6	13	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	2.4	6.6	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
67-64-1	**Acetone**	**130**		ug/m³	1.2	3.8	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
71-43-2	Benzene	ND		ug/m³	0.77	5.1	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
100-44-7	Benzyl chloride	ND		ug/m³	1.0	8.3	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-27-4	Bromodichloromethane	ND		ug/m³	2.4	10	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-25-2	Bromoform	ND		ug/m³	3.0	17	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
74-83-9	Bromomethane	ND		ug/m³	0.75	6.3	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-15-0	**Carbon disulfide**	**15**		ug/m³	0.60	5.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	1.2	5.1	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
108-90-7	Chlorobenzene	ND		ug/m³	1.3	7.4	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-00-3	Chloroethane	ND		ug/m³	0.51	4.2	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
67-66-3	Chloroform	ND		ug/m³	1.2	7.9	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
74-87-3	Chloromethane	ND		ug/m³	1.0	3.3	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.1	6.4	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **SV-11 (Y-66)** **York Sample ID:** **12K0166-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	1.8	7.3	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
110-82-7	Cyclohexane	ND		ug/m³	0.67	5.5	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
124-48-1	Dibromochloromethane	ND		ug/m³	13	13	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m³	2.0	8.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
141-78-6	Ethyl acetate	ND		ug/m³	1.5	5.8	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
100-41-4	Ethyl Benzene	ND		ug/m³	1.3	7.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
87-68-3	Hexachlorobutadiene	ND		ug/m³	3.1	17	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
67-63-0	**Isopropanol**	**130**		ug/m³	1.4	4.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
80-62-6	Methyl Methacrylate	ND		ug/m³	6.6	6.6	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.70	5.8	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-09-2	**Methylene chloride**	**11**		ug/m³	1.3	5.6	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
142-82-5	n-Heptane	ND		ug/m³	0.79	6.6	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
110-54-3	n-Hexane	ND		ug/m³	0.68	5.7	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
95-47-6	o-Xylene	ND		ug/m³	1.3	7.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
1330-20-7P/M	**p- & m- Xylenes**	**9.8**		ug/m³	2.4	7.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
622-96-8	p-Ethyltoluene	ND		ug/m³	1.4	40	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
115-07-01	Propylene	ND		ug/m³	1.3	2.8	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
100-42-5	Styrene	ND		ug/m³	1.2	6.9	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
127-18-4	Tetrachloroethylene	ND		ug/m³	1.3	11	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
109-99-9	**Tetrahydrofuran**	**11**		ug/m³	1.2	4.7	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
108-88-3	**Toluene**	**12**		ug/m³	1.5	6.1	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.77	6.4	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.3	7.3	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
79-01-6	Trichloroethylene	ND		ug/m³	1.0	4.3	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.54	9.0	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
108-05-4	Vinyl acetate	ND		ug/m³	0.85	11	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD
75-01-4	Vinyl Chloride	ND		ug/m³	0.99	8.2	15.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 22:53	TD

Sample Information

Client Sample ID: **SV-12 (P-19)** **York Sample ID:** **12K0166-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: SV-12 (P-19) **York Sample ID:** 12K0166-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	2.1	12	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	3.5	15	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	16	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	2.9	12	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	1.0	8.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	1.3	8.4	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	3.5	16	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	1.2	52	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	16	16	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	3.2	13	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	2.1	8.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	2.2	9.8	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	2.5	15	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	1.4	21	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
106-99-0	1,3-Butadiene	ND		ug/m³	1.4	9.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	2.3	13	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	2.8	13	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
123-91-1	1,4-Dioxane	ND		ug/m³	6.9	76	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
78-93-3	2-Butanone	ND		ug/m³	2.5	6.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
591-78-6	2-Hexanone	ND		ug/m³	4.8	17	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	3.1	8.7	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
67-64-1	**Acetone**	**180**		ug/m³	1.6	5.0	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
71-43-2	Benzene	ND		ug/m³	1.0	6.8	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
100-44-7	Benzyl chloride	ND		ug/m³	1.3	11	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-27-4	Bromodichloromethane	ND		ug/m³	3.2	13	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-25-2	Bromoform	ND		ug/m³	3.9	22	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
74-83-9	Bromomethane	ND		ug/m³	0.99	8.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-15-0	Carbon disulfide	ND		ug/m³	0.79	6.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	1.6	6.7	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
108-90-7	Chlorobenzene	ND		ug/m³	1.8	9.8	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-00-3	Chloroethane	ND		ug/m³	0.67	5.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
67-66-3	Chloroform	ND		ug/m³	1.6	10	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
74-87-3	Chloromethane	ND		ug/m³	1.3	4.4	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	1.4	8.4	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	2.4	9.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **SV-12 (P-19)** **York Sample ID:** **12K0166-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
12K0166	#120208-247 N 7th-246 N 8th Street, Brooklyn, NY	Soil Vapor	November 6, 2012 3:00 pm	11/07/2012

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	ND		ug/m³	0.88	7.3	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
124-48-1	Dibromochloromethane	ND		ug/m³	17	17	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m³	2.6	10	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
141-78-6	Ethyl acetate	ND		ug/m³	1.9	7.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
100-41-4	Ethyl Benzene	ND		ug/m³	1.7	9.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
87-68-3	Hexachlorobutadiene	ND		ug/m³	4.1	23	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
67-63-0	Isopropanol	ND		ug/m³	1.8	5.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
80-62-6	Methyl Methacrylate	ND		ug/m³	8.7	8.7	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.91	7.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-09-2	Methylene chloride	ND		ug/m³	1.8	7.4	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
142-82-5	n-Heptane	ND		ug/m³	1.0	8.7	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
110-54-3	n-Hexane	ND		ug/m³	0.90	7.5	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
95-47-6	o-Xylene	ND		ug/m³	1.7	9.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
1330-20-7P/M	**p- & m- Xylenes**	**13**		ug/m³	3.1	9.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
622-96-8	p-Ethyltoluene	ND		ug/m³	1.9	52	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
115-07-01	Propylene	ND		ug/m³	1.7	3.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
100-42-5	Styrene	ND		ug/m³	1.6	9.0	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
127-18-4	Tetrachloroethylene	ND		ug/m³	1.7	14	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
109-99-9	Tetrahydrofuran	ND		ug/m³	1.6	6.2	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
108-88-3	Toluene	ND		ug/m³	1.9	8.0	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	1.0	8.4	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.7	9.6	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
79-01-6	**Trichloroethylene**	**47**		ug/m³	1.4	5.7	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.71	12	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
108-05-4	Vinyl acetate	ND		ug/m³	1.1	15	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD
75-01-4	Vinyl Chloride	ND		ug/m³	1.3	11	20.83	EPA Compendium TO-15	11/08/2012 09:00	11/08/2012 23:37	TD

Notes and Definitions

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record - AIR

Page____ of ____

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 12K0166

YOUR Information
Company: Hydro Tech Env. Corp.
Address: 15 Ocean Avenue, 2nd Floor, Brooklyn, NY
Phone No. 718-636-0800
Contact Person: Ezgi Karayel
E-Mail Address: ekarayel@hydrotechenvironmental.com

Report To:
Company:
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:
Company:
Address: 77 Arkay Drive, Suite: G, Hauppauge, NY
Phone No. 631-462-5866
Attention: Mustima Ward
E-Mail Address: mward@htecorp.info

YOUR Project ID
#120208-247 N 7th ~246 N 8th Street, Brooklyn, NY

Purchase Order No.
5408

Samples from: CT___ NY X NJ___

Turn-Around Time
RUSH - Same Day ☐
RUSH - Next Day ☐
RUSH - Two Day ☐
RUSH - Three Day ☐
RUSH - Four Day ☐
Standard(5-7 Days) ☒

Report Type/Deliverables
Summary Report ____
Summary w/ QA Summary ____
CT RCP Package ____
NY ASP A Package ____
NY ASP B/CLP Pkg ____
NJDEP Reduced ____
Electronic Deliverables:
EDD (Specify Type) X
Standard Excel ____
Regulatory Comparison Excel ____

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Ezgi Karayel
Name (printed)

Air Matrix Codes
AI - INDOOR Ambient Air
AO- OUTDOOR Amb. Air
AE- Vapor Extraction Well/ Process Gas/Effluent
AS- SOIL Vapor/Sub-Slab

TO15 Volatiles and Other Gas Analyses
EPA TO-15 List
EPA TO-14A List
NYSDEC VI list
Tentatively Identified Compounds
NYSDEC STARS List
Air VPH
Project Specific List by TO-15
Helium
NJDEP Target List
Methane
CTDEP RCP Target List
OTHER____

Detection Limits Required
≤ 1 ug/m³ ____
NYSDEC VI Limits ____
(VI = vapor intrusion)
NJDEP low level ____
Routine Survey ____
Other____

Special Instructions

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Choose Analyses Needed from the Menu Above and Enter Below	Sampling Media
SV-1 (Y-45)	11/6/12	AS	-30	-8	TO-15	6 Liter Summa canister X / Tedlar Bag
SV-2 (Y-53)	↓	↓	-30	-30	↓	6 Liter Summa canister X / Tedlar Bag
SV-4 (S-14)			-29	-5		6 Liter Summa canister X / Tedlar Bag
SV-11 (Y-66)			-14	-2		6 Liter Summa canister X / Tedlar Bag
SV-12 (P-18)			-30	-9		6 Liter Summa canister X / Tedlar Bag
						6 Liter Summa canister ___ / Tedlar Bag ___
						6 Liter Summa canister ___ / Tedlar Bag ___
						6 Liter Summa canister ___ / Tedlar Bag ___
						6 Liter Summa canister ___ / Tedlar Bag ___
						6 Liter Summa canister ___ / Tedlar Bag ___
						6 Liter Summa canister ___ / Tedlar Bag ___

Comments
The results need to be compared to NYSDOH Background Indoor Standards.

Samples Relinquished By — Date/Time: 11-7-12 1230 pm
Samples Relinquished By — Date/Time:

Samples Received By: K Baba — Date/Time: 11-7-12 1230 pm
Samples Received in LAB by: Grace 11-7-12 — Date/Time: 1640

ATTACHMENT #4

Gerner Kronick + Valcarcel, Architects, PC
443 Park Avenue South New York, NY 10016 Tel. 212-679-6362 Fax. 212-679-5877

November, 15 2012

Re: 249 North 7th street (Lots 28,30) and 248 North 8th (Lots 10 and 11) street located in Williamsburg, Brooklyn 11217

Block 2322, Lots 10,11,28,30

To Whom It May Concern:

Description of the project:

The proposed new project on 249 North 7th street and 248 North 8th street located in Williamsburg, Brooklyn 11217 will be a new residential rental development.

The proposed project consists of two separate 7-story buildings over a common parking garage. The garage will be a joint parking garage serving both properties. The parking will be operated as attended parking. Both buildings will be filed separately with the DOB.

N7 Building:

The total gross square footage of the new building will be 65,000 sft and will allow for 65 market rate rental apartments.

It is located approximately in the middle of the block. The lot is size is 125'-8"x100'.

Breakdown:

- Cellar: Parking Garage with 26 parking spots, mechanical rooms, elevators, compactor room, storage and stairs, ramp into parking garage
- 1st floor: Mechanical rooms, Lobby, elevators, egress stairs and 1 apartment, plus 2 apartments with private gardens over the parking garage; walkways and outdoor recreation area for the tenants; planters between the street line and the setback of the building
- 2-6th floor: Mechanical rooms, elevators, egress stairs and 11 apartments
- 7th floor: Mechanical rooms, elevators, egress stairs and 7 apartments and set-back terraces

- Roof: Elevator and Stair bulkheads, boiler room and common tenant recreation area

Parking Garage:
The parking garage will cover almost the entire 12,567 sft site. At the West Side of the property the cellar will be set back 10' 11 ½". The residential building above will continue at the lot line. The proposed development will be set back from the street line for about 1' to 3'. The lowest elevation of the slab on grade will be about El. +3.61' (Brooklyn Highway Datum). This translates into approximately 9'-3 1/4" below the base curb level. (Please refer to attached sections and elevations)

Foundations:
The foundation for the proposed project will be spread footings with piles along the street wall to allow for minimal impact on the TA subway line. The subway line runs along North 7th street.

Impact on soil:
The total amount of soil removed will be ±4,500 cubic yard. There will be a backfill of ± 200 cubic yard required. The NYC OER will be notified once the information for the import materials is finalized.

N8 Building:

The total gross square footage of the new building will be 104,000 sft and will allow for 104 market rate rental apartments.

Breakdown:

- Cellar: Parking Garage with 59 parking spots, mechanical rooms, bicycle storage, Storage, parking attendant office and bathroom, elevators and stairs
- 1st floor: Mechanical rooms, Lobby, elevators, egress stairs and 5 apartments, plus 3 apartments with private gardens over the parking garage; walkways and outdoor recreation area for the tenants; planters between the street line and the setback of the building
- 2-6th floor: Mechanical rooms, elevators, egress stairs and 17 apartments
- 7th floor: Mechanical rooms, elevators, egress stairs and 11 apartments and set-back terraces

Gerner Kronick + Valcarcel, Architects, PC
443 Park Avenue South New York, NY 10016 Tel. 212-679-6362 Fax. 212-679-5877

- Roof: Elevator and Stair bulkheads, boiler room and common tenant recreation area

Parking Garage:
The parking garage will cover about 18,000sft of the 20,000 sft. site. The proposed development will be set back from the street line for about 1' to 4'. The lowest elevation of the slab on grade will be about El. +4.38' (Brooklyn Highway Datum). This translates into approximately 5'-2" below the base curb level. (Please refer to attached sections and elevations)

Foundations:
The foundation for the proposed project will be on piles both predrilled and pounded.

Impact on soil:
The total amount of soil removed will be ±4,400 cubic yard. There will be a backfill of ± 60 cubic yard required.

Architectural appearances and materials:

Both buildings will be approximately 70' high not including the mechanical bulkheads and elevator shafts. The main construction material for the exterior skin will be exposed concrete and window wall.

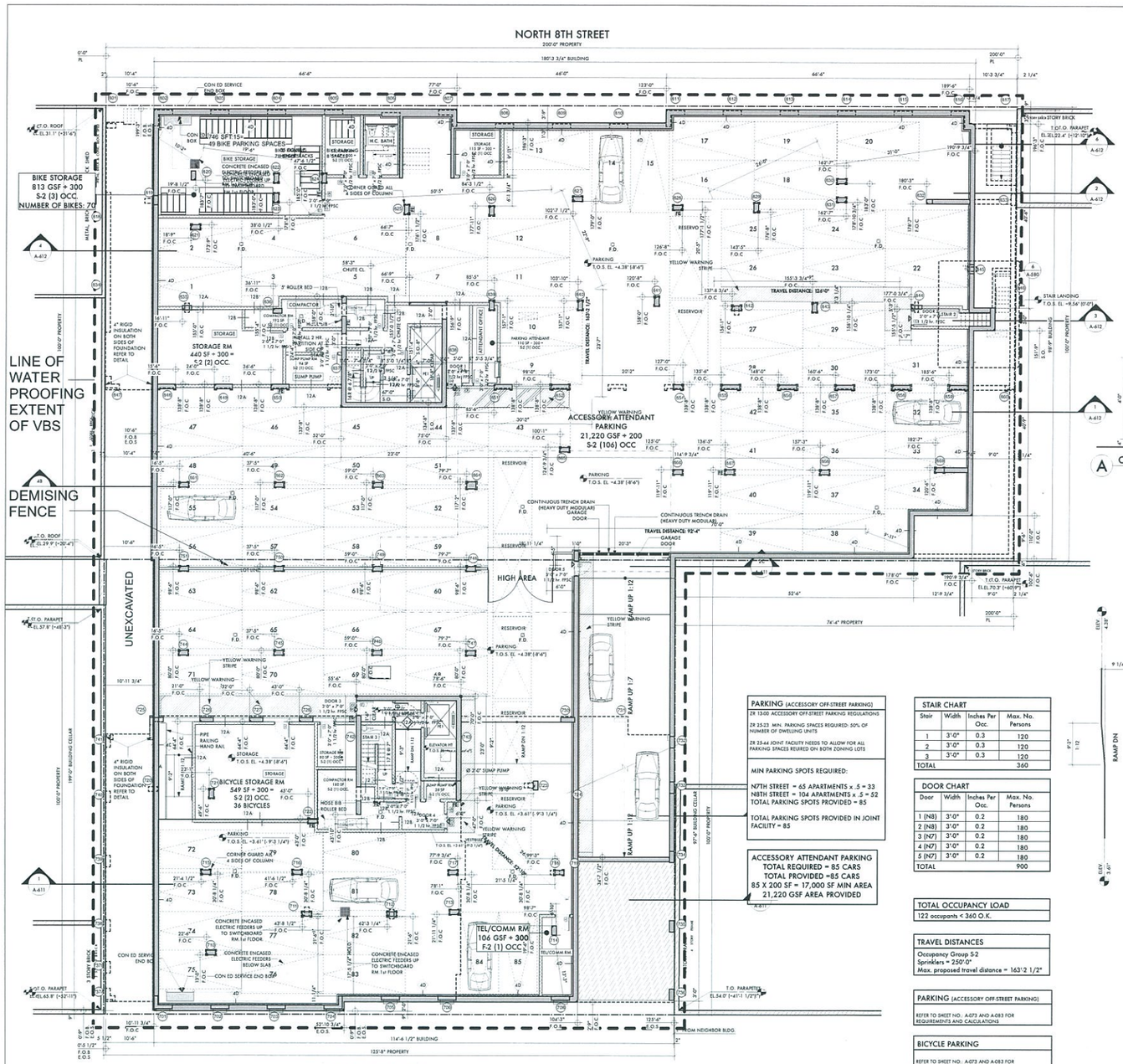
Should you have any questions, please do not hesitate to call.

Sincerely,

Randolph H. Gerner

REGISTERED ARCHITECT
RANDOLPH H. GERNER
No. 015363
STATE OF NEW YORK

ATTACHMENT #5



LEGEND

- CONCRETE WALL - THREE HOUR FIRE RATING
- 8" SOLID CONCRETE BLOCK WALL - THREE HOUR FIRE RATING (REFER TO SUITE PARTITION)
- 4" SOLID CONCRETE BLOCK WALL TWO HOUR FIRE RATING
- HEAT DETECTOR
- SMOKE DETECTOR
- EXIT SIGN

GENERAL NOTES:

1. DATUM ELEVATION NORTH 7TH STREET USED : 100'-0" = 31'-1 1/2" ABOVE A.S.L.
2. FOR PARTITION TYPES SEE DRAWING NUMBER A-601
4. FOR DOOR SCHEDULE, DOOR TYPES, JAMB DETAILS SEE A-610
5. DRYWALL PARTITIONS ARE DIMENSIONED TO FACE OF CONCRETE BLOCK WALL UNLESS OTHERWISE NOTED
6. FOR ELEVATOR PIT PLANS, SEE DWG. A-680
7. SUMP PIT AND EJECTOR PITS AND MISCELLANEOUS DETAILS SEE A-681
8. ALL PERIMETER WALLS TO RECEIVE FURRING PARTITION TYPE 4D - INSULATION WITH MOLD & MOISTURE RESISTANT GYP. BD.
9. FLOOR SURFACE: CONCRETE FLOOR WITH DUST PROOF SEALER
10. CLEAR HEIGHT OF PARKING : 7'-0" MIN
11. CLEAR HEIGHT @ VAN SPACES & RELATED DRIVING ISLES: 8'-2" MIN
12. FIRE EXTINGUISHERS: USE LARSEN'S MP 10 ON BRACKET B2

NOTES

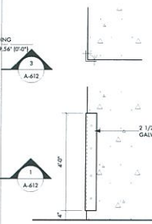
CLEAR HEIGHT OF PARKING GARAGE : 7'-0" MIN

CLEAR HEIGHT @ VAN SPACES & RELATED DRIVING ISLES: 8'-2" MIN

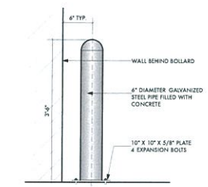
FLOOR SURFACE : CONCRETE FLOOR W/DUST PROOF SEALER

CARBON MONOXIDE DETECTION SYSTEM WILL BE INSTALLED IN CELLAR. REFER TO MECHANICAL DRAWINGS

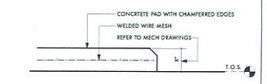
GARAGE IS MECHANICALLY VENTED REFER TO MECH DRAWINGS



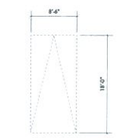
A CORNER GUARD DETAIL



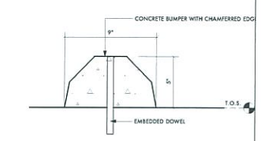
B BOLLARD DETAIL



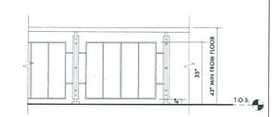
C EQUIPMENT PAD DETAIL



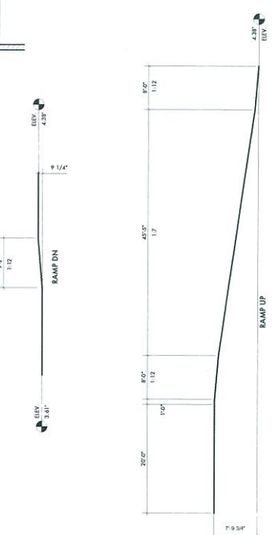
D PARKING SPOT



E CONCRETE WHEEL STOP



F TYP. GURD RAIL DETAIL



PARKING (ACCESSORY OFF-STREET PARKING)

ZR 13-00 ACCESSORY OFF-STREET PARKING REGULATIONS

ZR 25-23 MIN. PARKING SPACES REQUIRED: 50% OF NUMBER OF DWELLING UNITS

ZR 25-44 JOINT FACILITY NEEDS TO ALLOW FOR ALL PARKING SPACES REURED ON BOTH ZONING LOTS

MIN PARKING SPOTS REQUIRED:

N7TH STREET = 65 APARTMENTS x .5 = 33
N8TH STREET = 104 APARTMENTS x .5 = 52
TOTAL PARKING SPOTS PROVIDED = 85

TOTAL PARKING SPOTS PROVIDED IN JOINT FACILITY = 85

ACCESSORY ATTENDANT PARKING
TOTAL REQUIRED = 85 CARS
TOTAL PROVIDED = 85 CARS
85 X 200 SF = 17,000 SF MIN AREA
21,220 GSF AREA PROVIDED

STAIR CHART

Stair	Width	Inches Per Occ.	Max. No. Persons
1	3'-0"	0.3	120
2	3'-0"	0.3	120
3	3'-0"	0.3	120
TOTAL			360

DOOR CHART

Door	Width	Inches Per Occ.	Max. No. Persons
1 (N8)	3'-0"	0.2	180
2 (N8)	3'-0"	0.2	180
3 (N7)	3'-0"	0.2	180
4 (N7)	3'-0"	0.2	180
5 (N7)	3'-0"	0.2	180
TOTAL			900

TOTAL OCCUPANCY LOAD

122 occupants < 360 O.K.

TRAVEL DISTANCES

Occupancy Group S-2
Sprinklers = 250'-0"
Max. proposed travel distance = 163'-2 1/2"

PARKING (ACCESSORY OFF-STREET PARKING)

REFER TO SHEET NO. A-073 AND A-083 FOR REQUIREMENTS AND CALCULATIONS

BICYCLE PARKING

REFER TO SHEET NO. A-073 AND A-083 FOR REQUIREMENTS AND CALCULATIONS

N

N7
N8
247 NORTH 7TH ST
BROOKLYN, NY 11211

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North 7-8 Investors LLC,
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Revisions

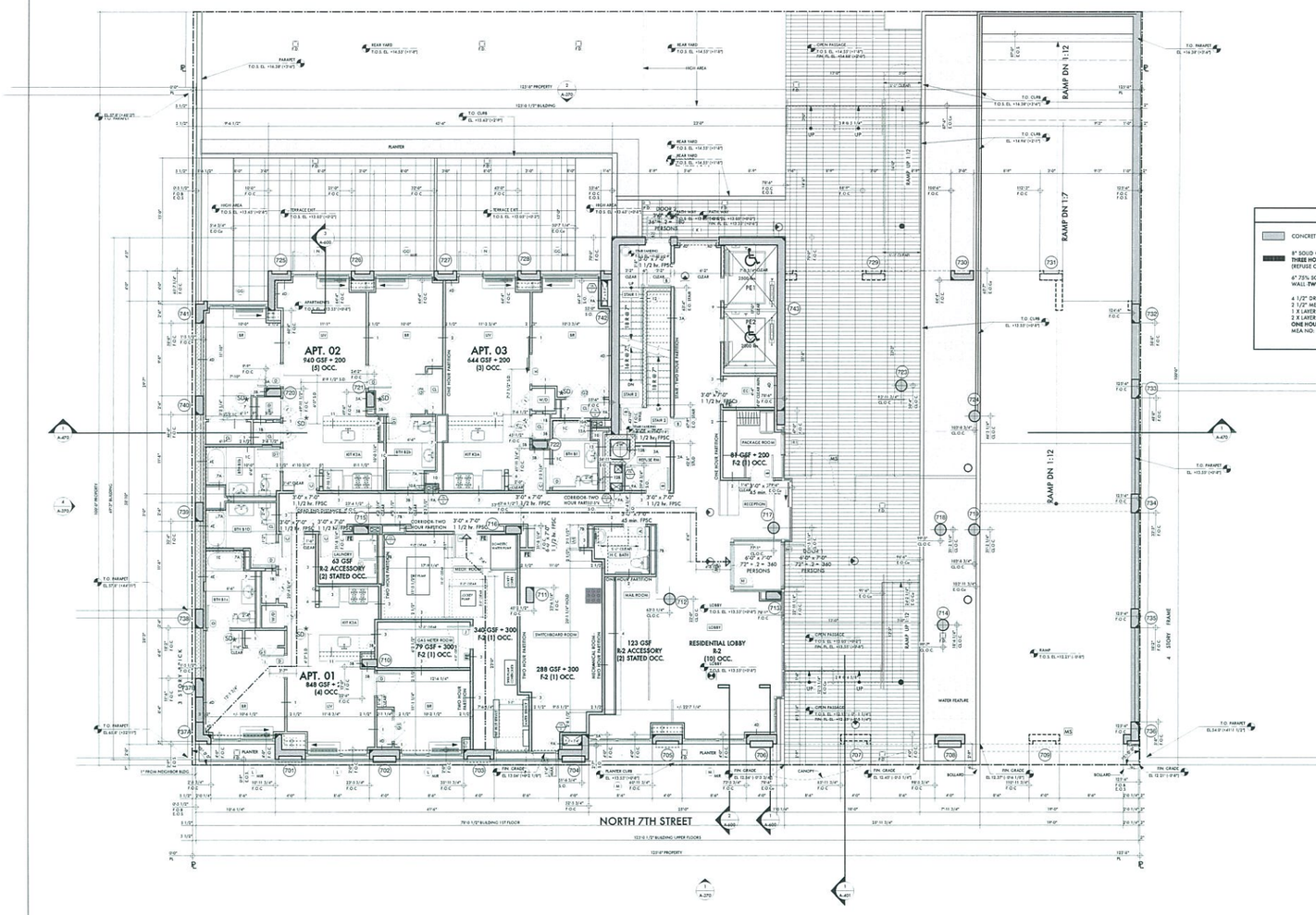
No.	Issue	Date
	ISSUED FOR OER	10.18.12

CELLAR FLOOR CONSTRUCTION PLAN

A-100.00

Scale: 1/4"=1'-0"

Sheet No.: 12 OUT OF 32



LEGEND

CONCRETE WALL - **THREE HOUR FIRE RATING**	2 1/2" DRYWALL VENT SHAFT PARTITION **TWO HOUR FIRE RATING** BSA NO: 898-47-SM	MAXIMUM DISTANCE TRAVELED	
8" SOLID CONCRETE BLOCK WALL - **THREE HOUR FIRE RATING** (REFUSE CHUTE PARTITION)	3" DRYWALL PARTITION 2 1/2" METAL STUDS @ 16" O.C. 2 X LAYER 5/8" GWB EACH SIDE **TWO HOUR FIRE RATING** MEA NO: 81-98-M	SD+ HD	SMOKE DETECTOR/CO COMBO
6" 75% SOLID CONCRETE BLOCK WALL **TWO HOUR FIRE RATING**	4" CH STUD W/ 1" FIRE RATED GWB 2 LAYERS 5/8" FIRE RATED GWB MEA NO. 481-91-M **TWO HOUR FIRE RATED SHAFT WALL**	SD	SMOKE DETECTOR
4 1/2" DRYWALL PARTITION 2 1/2" METAL STUDS AT 16" O.C 1 X LAYER 5/8" GWB ONE SIDE 2 X LAYER 5/8" GWB ONE SIDE **ONE HOUR FIRE RATING** MEA NO: 81-98-M	1 5/8" MTL STUD 1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT **ONE HOUR FIRE RATED SHAFT WALL**	HD	HEAT DETECTOR
			EXIT SIGN

HABITABLE ROOMS

Apartment	Habitable Rooms
01	3
02	3
03	2

TRAVEL DISTANCES

Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 100'-2"

DEAD END DISTANCES

Occupancy Group R-2 = 40'-0"
(Allowed 80'-0" if 2 hr fire rated corridor)
Max. proposed dead end distance = 55'-6"

NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE

2. SMOKE DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR

DUCT SIZES & SLAB OPENINGS AT 1ST FLOOR

VENT NO.	DUCT	SLAB OPNG.
EU-2	10 X 8	12 X 10
EE-1	8 X 8	10 X 10
GX-1	36 X 10	38 X 12
GX-2	28 X 14	30 X 16
Ave. SLAB OPENING CORNER FT		METAL VENT WITH BOOT TAP

ALL DUCTS TO BE ENCLOSED IN 2-HR. FIRE-RATED VENT SHAFT CONSTRUCTION
SEE PARTITION SCHEDULE

N

DATUM ELEVATION
NORTH 7TH STREET:
12.88' = (0'-0")

REGISTERED ARCHITECT
RANDOLPH H. GERNER
No. 015360
STATE OF NEW YORK

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N8
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BROOKLYN, NY 11211

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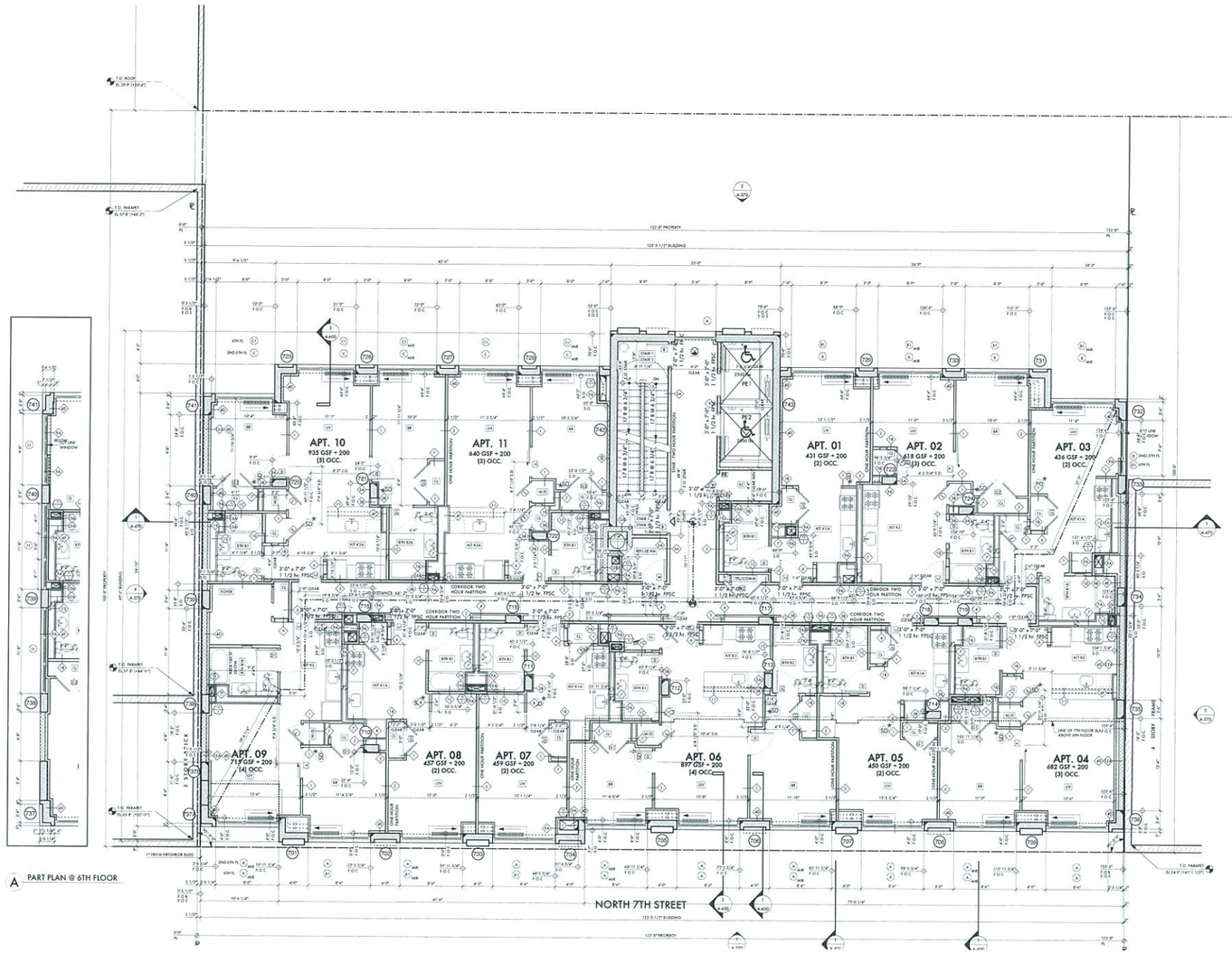
Revisions

No.	Issue	Date
2.	ISSUED FOR OER	10.18.12
1.	ISSUED FOR FILING	10.01.12

1 ST FLOOR CONSTRUCTION PLAN

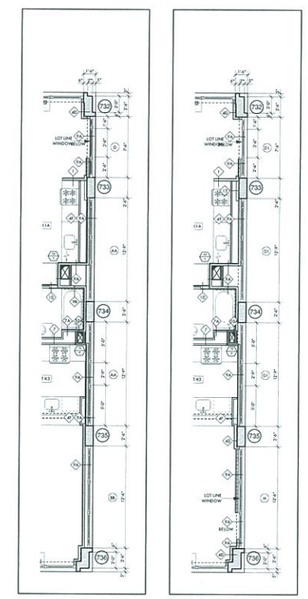
A-171.00

Scale: 3/16"=1'-0" | Sheet No.: 15 OUT OF 32



A PART PLAN @ 6TH FLOOR

B PART PLAN @ 5TH FLOOR



C PART PLAN @6TH FLOOR

LEGEND

- CONCRETE WALL- **THREE HOUR FIRE RATING**
- 8" SOLID CONCRETE BLOCK WALL - **THREE HOUR FIRE RATING** (REFUSE CHUTE PARTITION)
- 6" 75% SOLID CONCRETE BLOCK WALL **TWO HOUR FIRE RATING**
- 4 1/2" DRYWALL PARTITION
  2 1/2" METAL STUDS AT 16" O.C
  1 X LAYER 5/8" GWB ONE SIDE
  2 X LAYER 5/8" GWB ONE SIDE
  ONE HOUR FIRE RATING
  MEA NO: 81-98-M
- 2 1/2" DRYWALL VENT SHAFT PARTITION
  TWO HOUR FIRE RATING
  BSA NO: 898-47-SM
- 5" DRYWALL PARTITION
  2 1/2" METAL STUDS @ 16" O.C.
  2 X LAYER 5/8" GWB EACH SIDE
  TWO HOUR FIRE RATING
  MEA NO. 81-98-M
- 4" CH STUD W/ 1" FIRE RATED GWB
  2 LAYERS 5/8" FIRE RATED GWB
  MEA NO. 481-91-M
  TWO HOUR FIRE RATED SHAFT WALL
- 1 5/8" MTL STUD
  1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT
  ONE HOUR FIRE RATED SHAFT WALL
- MAXIMUM DISTANCE TRAVELED
- SD* SMOKE DETECTOR/CO COMBO
- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT SIGN

STAIR CHART

Stair	Width	Max. No. Persons
1	3'-0"	30
2	3'-0"	30
TOTAL		60

TOTAL OCCUPANCY LOAD

37 occupants < 60 O.K.

TRAVEL DISTANCES

Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 92'-11"

DEAD END DISTANCES

Occupancy Group R-2 = 40'-0"
(allowed 50'-0" if 2 hr fire rated corridor)
Max. proposed dead end distance = 66'-2"

NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE
2. SMOKE DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR

HABITABLE ROOMS

Department	Habitable Rooms
01	3
02	3
03	2
04	2
05	1
06	3
07	1
08	1
09	2
10	3
11	2
14 X 6	16 X 8
6 X 6	8 X 6
14 X 6	16 X 8
12 X 8	14 X 10
14 X 6	16 X 8
12 X 8	14 X 10
8 X 8	10 X 10
12 X 8	14 X 10
14 X 6	16 X 8
12 X 6	14 X 8
10 X 10	12 X 12
36 X 10	38 X 12
28 X 14	30 X 14
12 X 12	14 X 14
8 X 8	10 X 10
12 X 12	14 X 14
8 X 8	10 X 10
12 X 12	14 X 14
26 X 6	28 X 8
12 X 12	14 X 14

DUCT SIZ
AT 2ND-6
VENT NO.
RTU 1 (3-2
RTU 2
RTU 2 (3-6
RX 1 (2-4
RX 1 (5-6
TX 1,2,3,4
TX 5 (2ND FL)
TX 6 (3-6TH FL)
TX 6,7 (3-6TH FL)
TX 8,9 (3-6TH FL)
TX 10 (3-6TH FL)
TX 11 (3-6TH FL)
TX 11 (3-6TH FL)
TX 12 (3-6TH FL)
TX 13 (3-6TH FL)
GX 1
GX 2
KX 1 (3-6TH FL)
KX 2 (3-6TH FL)
KX 2 (3-6TH FL)
KX 3 (3-6TH FL)
KX 3 (3-6TH FL)
KX 4 (3-6TH FL)
KX 5 (3-6TH FL)

SLAB OPENING CORNER PT

METAL VENT WITH BUDDY TAP

ALL DUCTS TO BE ENCLOSED IN 2-HR FIRERATED VENT SHAFT CONSTRUCTION SEE PARTITION SCHEDULE

N

DATUM ELEVATION
NORTH 7TH STREET
12.88' = (0'-0")

REGISTERED ARCHITECT
RANDOLPH H. GERNER
NO. 5360
STATE OF NEW YORK

N7
N8
247 NORTH 7TH ST
BROOKLYN, NY 11211

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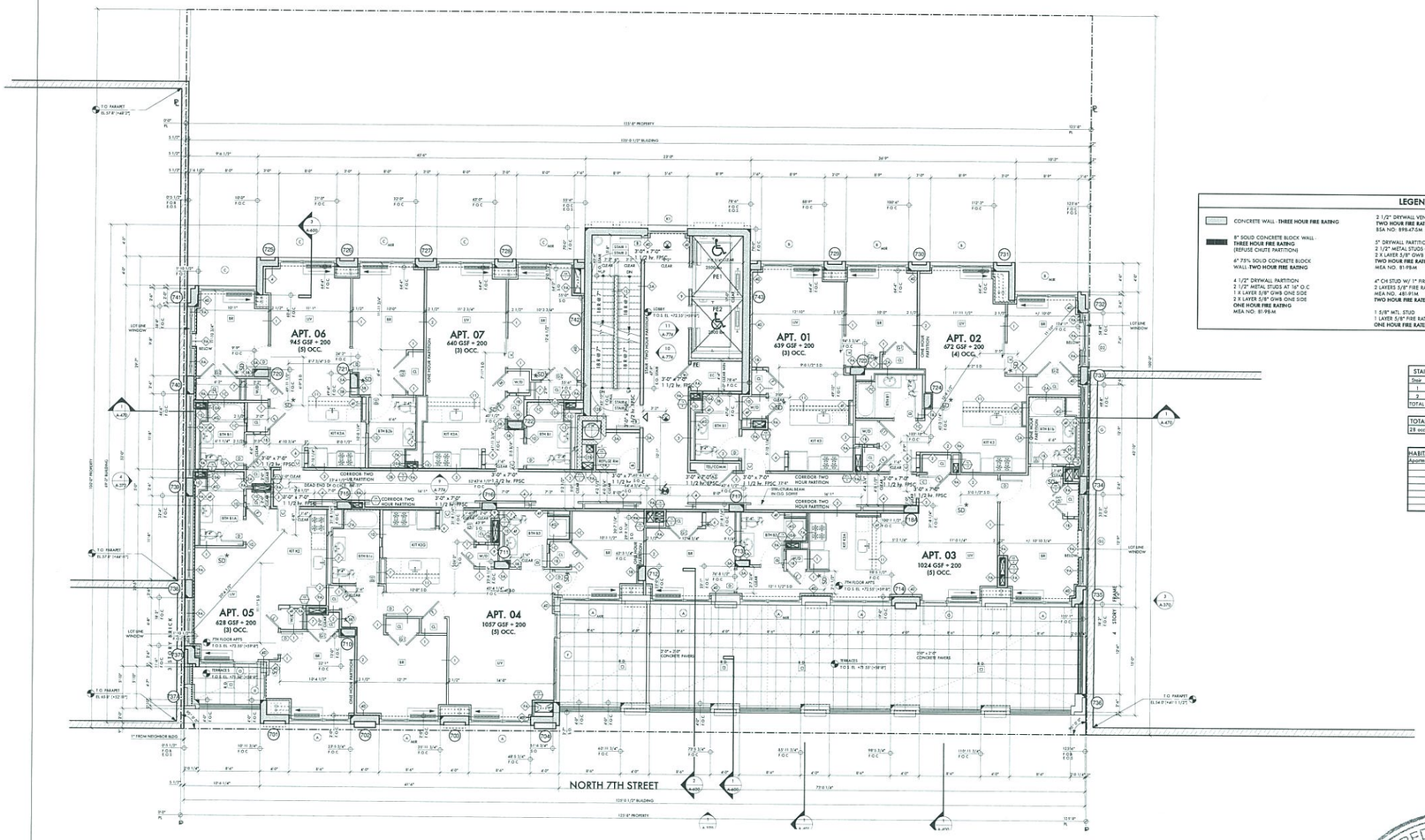
Revisions

No.	Issue	Date
3.	ISSUED FOR DOB	10.15.12
2.	ISSUED FOR FILING	07.22.12
1.	ISSUED FOR FILING	06.01.12

2ND - 6TH FLOOR CONSTRUCTION PLAN

A-172.00

Scale: 3/16"=1'-0" | Sheet No.: 15 OUT OF 32



LEGEND

- CONCRETE WALL - **THREE HOUR FIRE RATING**
- 8" SOLID CONCRETE BLOCK WALL - **THREE HOUR FIRE RATING** (REFUSE CHUTE PARTITION)
- 6" 75% SOLID CONCRETE BLOCK WALL **TWO HOUR FIRE RATING**
- 4 1/2" DRYWALL PARTISION
  2 1/2" METAL STUDS AT 16" O.C
  1 X LAYER 5/8" GWB ONE SIDE
  2 X LAYER 5/8" GWB ONE SIDE
  ONE HOUR FIRE RATING
  MEA NO: 81-98-M
- 2 1/2" DRYWALL VENT SHAFT PARTITION
  TWO HOUR FIRE RATING
  ESA NO: 598-87.5M
- 5" DRYWALL PARTITION
  2 1/2" METAL STUDS @ 16" O.C.
  2 X LAYER 5/8" GWB EACH SIDE
  TWO HOUR FIRE RATING
  MEA NO: 81-98-M
- 4" CM STUD W/ 1" FIRE RATED GWB
  2 LAYERS 5/8" FIRE RATED GWB
  MEA NO.: 481-81M
  TWO HOUR FIRE RATED SHAFT WALL
- 1 5/8" MTL STUD
  1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT
  ONE HOUR FIRE RATED SHAFT WALL
- MAXIMUM DISTANCE TRAVELED
- SD* SMOKE DETECTOR/CO COMBO
- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT SIGN

STAIR CHART		
Stair	Width	Max. No. Persons
1	3'-0"	30
2	3'-0"	30
TOTAL		60

TOTAL OCCUPANCY LOAD
28 occupants < 60 O.K.

HABITABLE ROOMS	
Apartment	Habitable Rooms
01	3
02	3
03	5
04	5
05	3
06	4
07	4

TRAVEL DISTANCES
Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 92'-6"

DEAD END DISTANCES
Occupancy Group R-2 = 40'-0"
(allowed 80'-0" if 2 hr fire rated corridor)
Max. proposed dead end distance = 64'-11"

NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE
2. SMOKE DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR

DUCT SIZES AT 7TH FLOORS

ITEM NO	DUCT	SLAB OPNG
RTU 1	22 X 8	24 X 10
RTU 2	18 X 10	20 X 12
RTU 3	28 X 8	30 X 10
RX 1	10 X 10	12 X 12
TX 1,2,3,4,8,11,12	14 X 6	16 X 8
TX 5,6,7,10	12 X 8	14 X 10
TX 13	12 X 6	14 X 8
GX 1	10 X 10	12 X 12
GX 1	36 X 10	38 X 12
GX 2	28 X 14	30 X 16
KX 1,3	18 X 8	20 X 10
KX 2	12 X 12	14 X 14
KX 4,5	26 X 6	28 X 8

A-B SLAB OPENING 1 CORNER PT A

METAL VENT WITH ROOT TAP

ALL DUCTS TO BE ENCLOSED IN 2HR FIR RATED VENT SHAFT CONSTRUCTION SEE PARTITION SCHEDULE

N

DATUM ELEVATION
NORTH 7TH STREET
12.88' = (0'-0")

REGISTERED ARCHITECT
RANDOLPH H. GERNER
No. 015360
STATE OF NEW YORK

N7
N8

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Revisions

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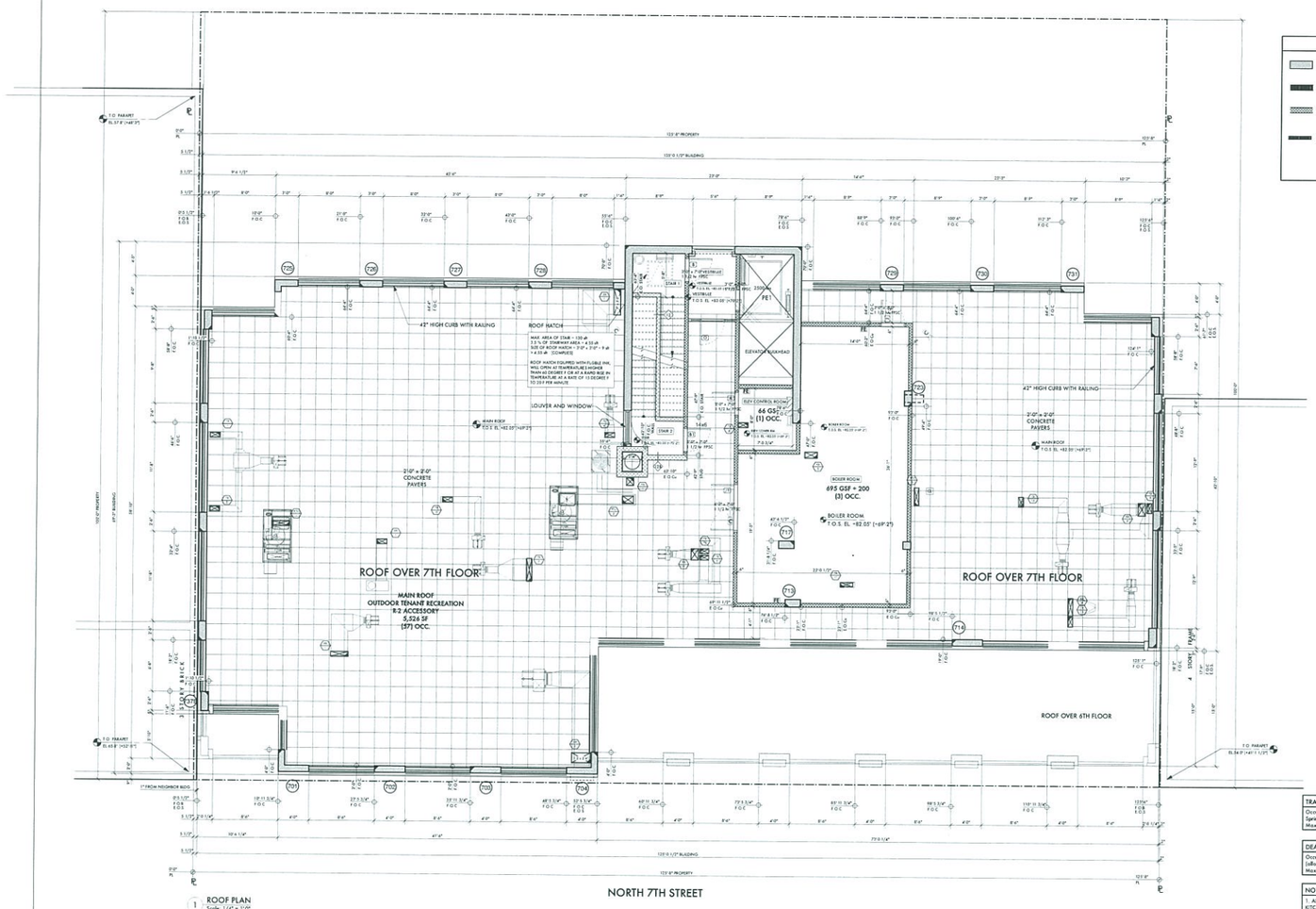
2.	ISSUED FOR OER	10.18.12
1.	ISSUED FOR FILING	07.02.12
	ISSUED FOR FILING	06.01.12

7 TH FLOOR CONSTRUCTION PLAN

A-177.00

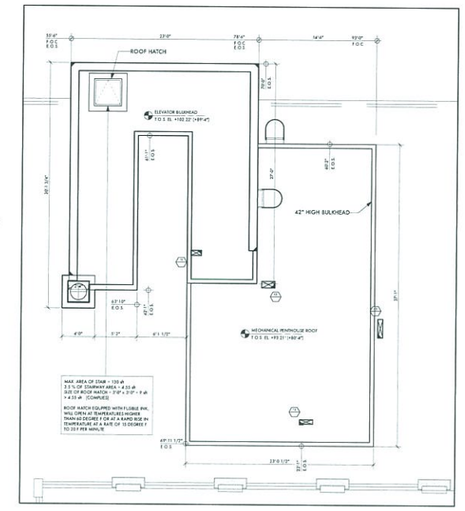
Scale: 3/16"=1'-0" | Sheet No.: 15 OUT OF 32



1 ROOF PLAN
Scale: 1/4" = 1'-0"

LEGEND

- CONCRETE WALL - THREE HOUR FIRE RATING
- 8" SOLID CONCRETE BLOCK WALL - THREE HOUR FIRE RATING (REFUSE CHUTE PARTITION)
- 6" 75% SOLID CONCRETE BLOCK WALL TWO HOUR FIRE RATING
- 4 1/2" DRYWALL PARTITION 2 1/2" METAL STUDS AT 16" O.C 1 X LAYER 5/8" GWB ONE SIDE 2 X LAYER 5/8" GWB ONE SIDE ONE HOUR FIRE RATING MEA NO: 81-98-M
- 2 1/2" DRYWALL VENT SHAFT PARTITION TWO HOUR FIRE RATING BSA NO: 898-47-SM
- 5" DRYWALL PARTITION 2 1/2" METAL STUDS @ 16" O.C 2 X LAYER 5/8" GWB EACH SIDE TWO HOUR FIRE RATING MEA NO: 81-98-M
- 4" CH STUD W/ 1" FIRE RATED GWB 2 LAYERS 5/8" FIRE RATED GWB MEA NO: 681-81-M TWO HOUR FIRE RATED SHAFT WALL
- 1 5/8" MTL STUD 1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT ONE HOUR FIRE RATED SHAFT WALL
- MAXIMUM DISTANCE TRAVELED
- SD SMOKE DETECTOR/CO COMBO
- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT SIGN



2 BULKHEAD PLAN
Scale: 1/4" = 1'-0"

STAIR CHART

Stair	Width	Max. No. Persons
1	3'-0"	30
2	3'-0"	30
TOTAL		60

TOTAL OCCUPANCY LOAD

60 occupants = 60 O.K.

TRAVEL DISTANCES

Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 92'-6"

DEAD END DISTANCES

Occupancy Group R-2 = 40'-0"
(allowed 80'-0" if 2 hr fire rated corridor)
Max. proposed dead end distance = 65'-10"

NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE

2. SMOKE DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR

DUCT SIZES & SLAB OPENINGS AT BULKHEAD

VENT NO.	DUCT	SLAB OPNG.
RTU 3	28 X 8	30 X 10
TK 8,11	14 X 6	16 X 8
KX 3	18 X 8	20 X 10

A x B SLAB OPENING CORNER PT — METAL VENT WITH BOOT TAP

ALL DUCTS TO BE ENCLOSED IN 2 HR. FIRERATED VENT SHAFT CONSTRUCTION
SEE PARTITION SCHEDULE

DUCT SIZES & SLAB OPENINGS AT ROOF

VENT NO.	DUCT	SLAB OPNG.
RTU 1	22 X 8	24 X 10
RTU 2	18 X 10	20 X 12
RTU 3	28 X 8	30 X 10
RX 1	10 X 10	12 X 12
TK 1,2,3,4,6,9,11,12	14 X 6	16 X 8
TK 5,10	12 X 8	14 X 10
TK 7	36 X 10	38 X 12
TK 13	12 X 6	14 X 8
SX 1	10 X 10	12 X 12
GX 1	36 X 10	38 X 12
GX 2	28 X 14	30 X 16
KX 1,3	18 X 8	20 X 10
KX 2	12 X 12	14 X 14
KX 4,5	26 X 6	28 X 8

A x B SLAB OPENING CORNER PT — METAL VENT WITH BOOT TAP

ALL DUCTS TO BE ENCLOSED IN 2 HR. FIRERATED VENT SHAFT CONSTRUCTION
SEE PARTITION SCHEDULE

N

DATAMET CORPORATION
REGISTERED ARCHITECT
RANDOLPH H. GERNER
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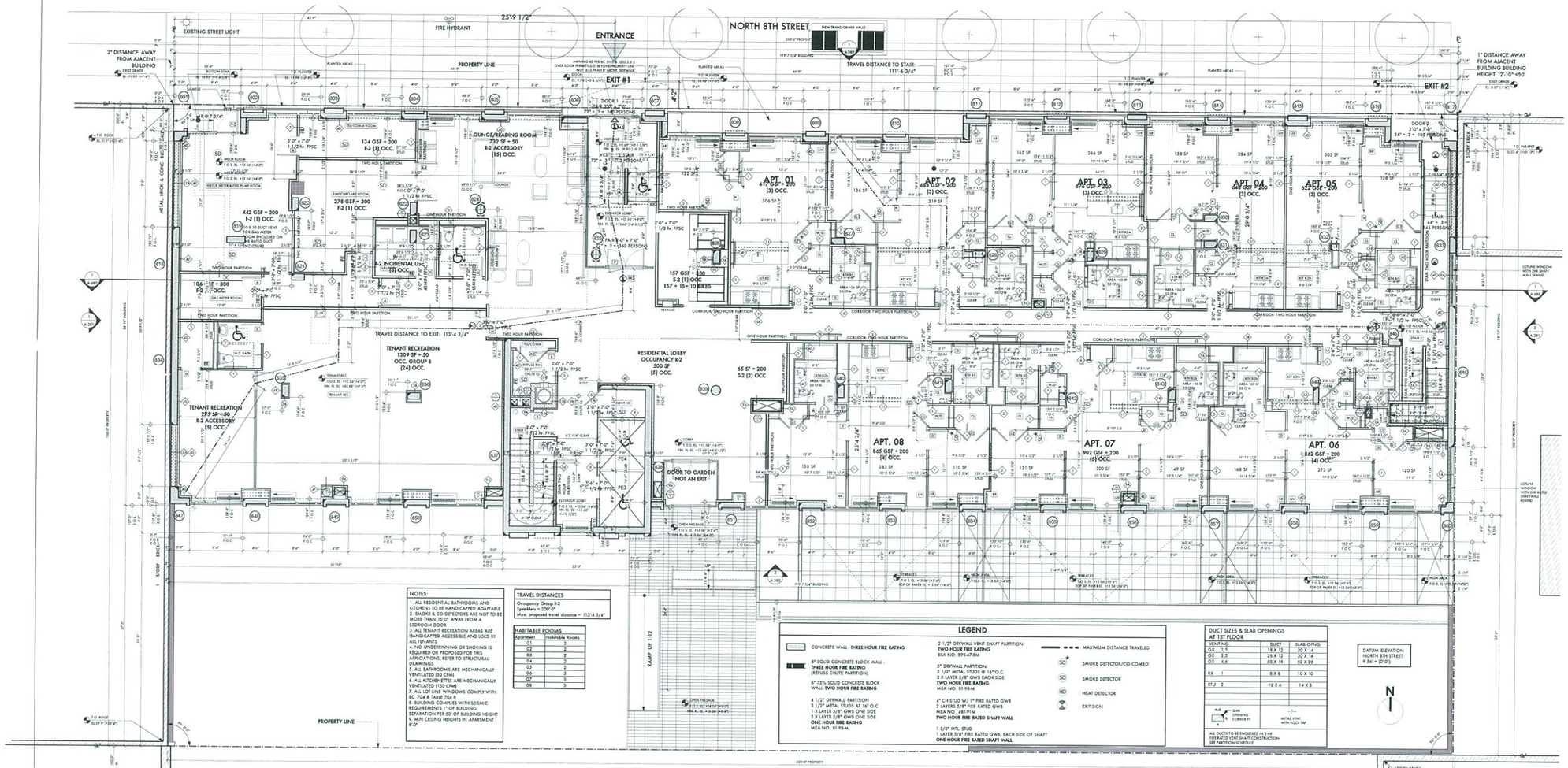
Revisions

No.	Issue	Date
3.	ISSUED FOR DEP	10.18.12
2.	ISSUED FOR PLNG	07.02.12
1.	ISSUED FOR PLNG	06.01.12

BULKHEAD CONSTRUCTION PLAN

A-178.00

Scale: 3/16"=1'-0" | Sheet No.: 15 OUT OF 32



NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE
2. SMOKE & CO DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR
3. ALL TENANT RECREATION AREAS ARE HANDICAPPED ACCESSIBLE AND USED BY ALL TENANTS
4. NO UNDERPINNING OR SHORING IS REQUIRED OR PROPOSED FOR THIS APPLICATION, REFER TO STRUCTURAL DRAWINGS
5. ALL BATHROOMS ARE MECHANICALLY VENTILATED (50 CFM)
6. ALL KITCHENETTES ARE MECHANICALLY VENTILATED (150 CFM)
7. ALL LOFT LIVE WINDOWS COMPLY WITH BC 704.8.7.(BLE.704.8
8. BUILDING COMPLIES WITH SEISMIC REQUIREMENTS 1" OF BUILDING SEPARATION PER 50' OF BUILDING HEIGHT
9. MIN CEILING HEIGHTS IN APARTMENT 8'-0"

TRAVEL DISTANCES

Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 113'-4 3/4"

HABITABLE ROOMS

Apartment	Habitable Rooms
01	2
02	2
03	2
04	2
05	2
06	3
07	3
08	2

LEGEND

CONCRETE WALL - THREE HOUR FIRE RATING

8" SOLID CONCRETE BLOCK WALL - THREE HOUR FIRE RATING (REFUSE CHUTE PARTITION)

6" 75% SOLID CONCRETE BLOCK WALL TWO HOUR FIRE RATING

4 1/2" DRYWALL PARTITION
2 1/2" METAL STUDS AT 16" O.C
1 X LAYER 5/8" GWB ONE SIDE
2 X LAYER 5/8" GWB ONE SIDE
ONE HOUR FIRE RATING
MEA NO: 81-98-M

2 1/2" DRYWALL VENT SHAFT PARTITION
TWO HOUR FIRE RATING
BSA NO: 898-67-SM

5" DRYWALL PARTITION
2 1/2" METAL STUDS @ 16" O.C.
2 X LAYER 5/8" GWB EACH SIDE
TWO HOUR FIRE RATING
MEA NO: 81-98-M

4" CH STUD W/ 1" FIRE RATED GWB
2 LAYERS 5/8" FIRE RATED GWB
MEA NO: 481-81-M
TWO HOUR FIRE RATED SHAFT WALL

1 5/8" MTL STUD
1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT
ONE HOUR FIRE RATED SHAFT WALL

MAXIMUM DISTANCE TRAVELED

SD SMOKE DETECTOR/CO COMBO

SD SMOKE DETECTOR

HD HEAT DETECTOR

EXIT SIGN

DUCT SIZES & SLAB OPENINGS AT 1ST FLOOR

VENT NO.	DUCT	SLAB OPNG.
GX 1.5	18 X 12	20 X 14
GX 2.3	28 X 12	30 X 14
GX 4.6	50 X 18	52 X 20
RX 1	8 X 8	10 X 10
RTU 2	12 X 6	14 X 8

A-6 SLAB OPENING CORNER #1

METAL VENT WITH BOOT TAP

ALL DUCTS TO BE ENCLOSED IN 2 HR FIRE RATED VENT SHAFT CONSTRUCTION SEE PARTITION SCHEDULE

DATUM ELEVATION NORTH 8TH STREET 9.56' = (0'-0")

N

REGISTERED ARCHITECT RANDOLPH H. GERNER No. 015360 NEW YORK

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Revisions

No.	Issue	Date
	ISSUED FOR DOB	10.18.12
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3.	ISSUED FOR FILING	08.14.12
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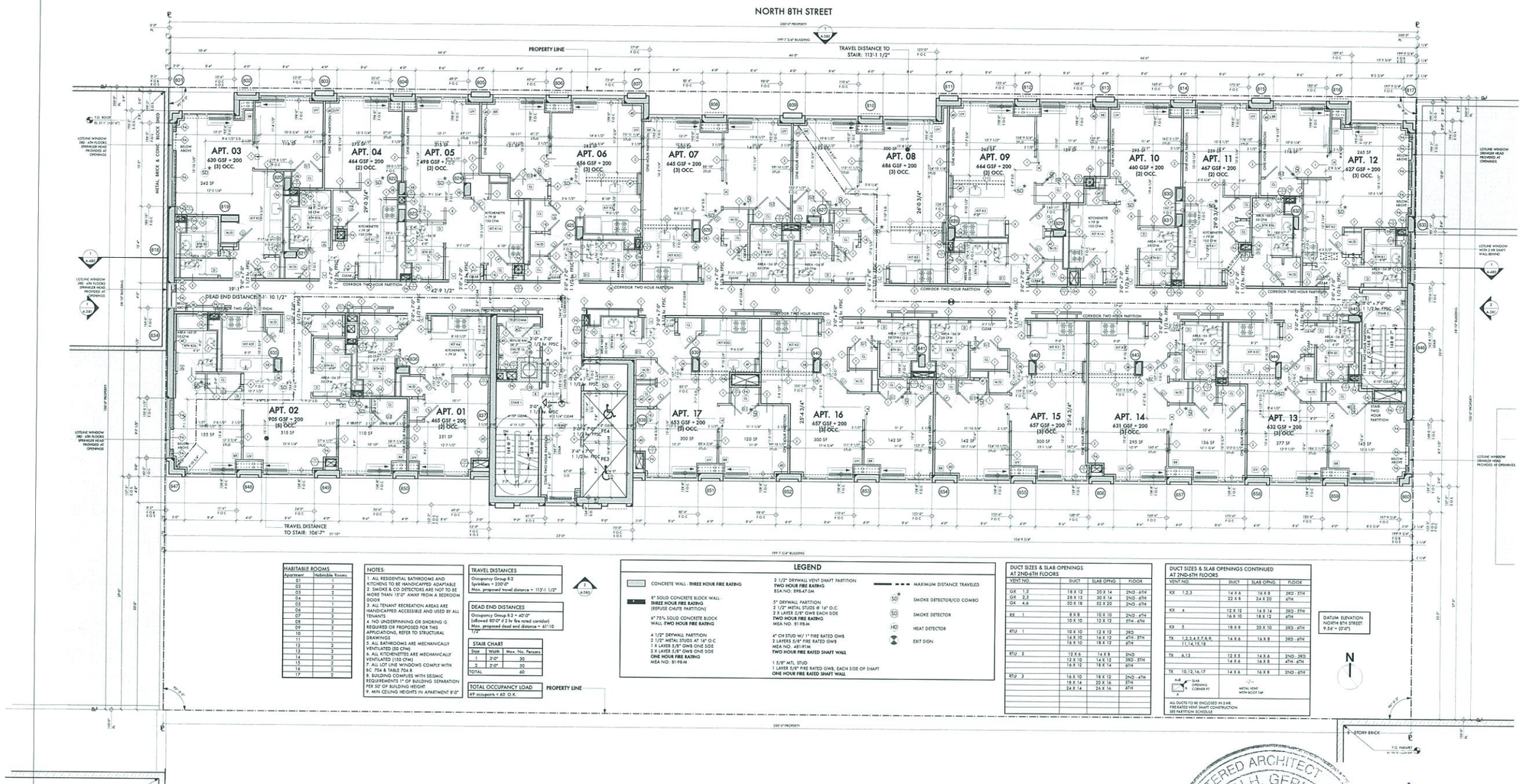
1.	ISSUED FOR FILING	06.01.12

1ST FLOOR CONSTRUCTION PLAN

A-181.00

Scale: 3/16"=1'-0"

Sheet No.: 16 OUT OF 34



HABITABLE ROOMS	
Apartment	Habitable Rooms
01	1
02	3
03	2
04	1
05	1
06	2
07	2
08	2
09	2
10	1
11	1
12	2
13	2
14	2
15	2
16	2
17	2

NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE
2. SMOKE & CO DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR
3. ALL TENANT RECREATION AREAS ARE HANDICAPPED ACCESSIBLE AND USED BY ALL TENANTS
4. NO UNDERPINNING OR SHORING IS REQUIRED OR PROPOSED FOR THIS APPLICATIONS, REFER TO STRUCTURAL DRAWINGS
5. ALL BATHROOMS ARE MECHANICALLY VENTILATED (50 CFM)
6. ALL KITCHENETTES ARE MECHANICALLY VENTILATED (150 CFM)
7. ALL LOT LINE WINDOWS COMPLY WITH BC 704 & TABLE 704.8
8. BUILDING COMPLIES WITH SEISMIC REQUIREMENTS 1" OF BUILDING SEPARATION PER 50' OF BUILDING HEIGHT
9. MIN CEILING HEIGHTS IN APARTMENT 8'-0"

TRAVEL DISTANCES

Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 113'-1 1/2"

DEAD END DISTANCES

Occupancy Group R-2 = 40'-0"
(allowed 80'-0" if 2 hr fire rated corridor)
Max. proposed dead end distance = 61'-10

STAIR CHART		
Stair	Width	Max. No. Persons
1	3'-0"	30
2	3'-0"	30
TOTAL		60

TOTAL OCCUPANCY LOAD
69 occupants < 60 O.K.

PROPERTY LINE

LEGEND

- CONCRETE WALL - **THREE HOUR FIRE RATING**
- 8" SOLID CONCRETE BLOCK WALL - **THREE HOUR FIRE RATING** (REFUSE CHUTE PARTITION)
- 6" 75% SOLID CONCRETE BLOCK WALL **TWO HOUR FIRE RATING**
- 4 1/2" DRYWALL PARTITION
  2 1/2" METAL STUDS AT 16" O.C
  1 X LAYER 5/8" GWB ONE SIDE
  2 X LAYER 5/8" GWB ONE SIDE
  ONE HOUR FIRE RATING
  MEA NO: 81-98-M
- 3 1/2" DRYWALL VENT SHAFT PARTITION
  TWO HOUR FIRE RATING
  BSA NO: 598-67-SM
- 3" DRYWALL PARTITION
  2 1/2" METAL STUDS @ 16" O.C.
  2 X LAYER 5/8" GWB EACH SIDE
  TWO HOUR FIRE RATING
  MEA NO: 81-98-M
- 4" CH STUD W/ 1" FIRE RATED GWB
  2 LAYERS 5/8" FIRE RATED GWB
  MEA NO: 481-91-M
  TWO HOUR FIRE RATED SHAFT WALL
- 1 5/8" MTL STUD
  1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT
  ONE HOUR FIRE RATED SHAFT WALL
- MAXIMUM DISTANCE TRAVELED
- SD — SMOKE DETECTOR/CO COMBO
- SD — SMOKE DETECTOR
- HD — HEAT DETECTOR
- EXIT SIGN

DUCT SIZES & SLAB OPENINGS AT 2ND-6TH FLOORS			
VENT NO.	DUCT	SLAB OPNG.	FLOOR
GX 1,5	18 X 12	20 X 14	2ND - 6TH
GX 2,3	28 X 12	30 X 14	2ND - 6TH
GX 4,6	50 X 18	52 X 20	2ND - 6TH
RX 1	8 X 8	10 X 10	2ND - 4TH
	10 X 10	12 X 12	5TH - 6TH
RTU 1	10 X 10	12 X 12	3RD
	14 X 10	16 X 12	4TH - 5TH
	16 X 10	18 X 12	6TH
RTU 2	12 X 6	14 X 8	2ND
	12 X 10	14 X 12	3RD - 5TH
	16 X 12	18 X 14	6TH
RTU 3	16 X 10	18 X 12	2ND - 4TH
	18 X 14	20 X 16	5TH
	24 X 14	26 X 16	6TH

DUCT SIZES & SLAB OPENINGS CONTINUED AT 2ND-6TH FLOORS			
VENT NO.	DUCT	SLAB OPNG.	FLOOR
KX 1,2,3	14 X 6	16 X 8	3RD - 5TH
	22 X 8	24 X 10	6TH
KX 4	12 X 12	14 X 14	3RD - 5TH
	16 X 10	18 X 12	6TH
KX 5	18 X 8	20 X 10	3RD - 6TH
TX 1,2,3,4,5,7,8,9, 11,14,15,18	14 X 6	16 X 8	3RD - 6TH
TX 6,13	12 X 8	14 X 6	2ND - 3RD
	14 X 6	16 X 8	4TH - 6TH
TX 10,12,16,17	14 X 6	16 X 8	2ND - 6TH

SLAB OPENING CORNER PT

METAL VENT WITH ROOT TAP

ALL DUCTS TO BE ENCLOSED IN 2 HR. FIRE RATED VENT SHAFT CONSTRUCTION
SEE PARTITION SCHEDULE

DATUM ELEVATION
NORTH 8TH STREET
9.54' = (0'-0")

N

REGISTERED ARCHITECT
RANDOLPH H. GERNER
No. 015360
STATE OF NEW YORK

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N8

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Revisions

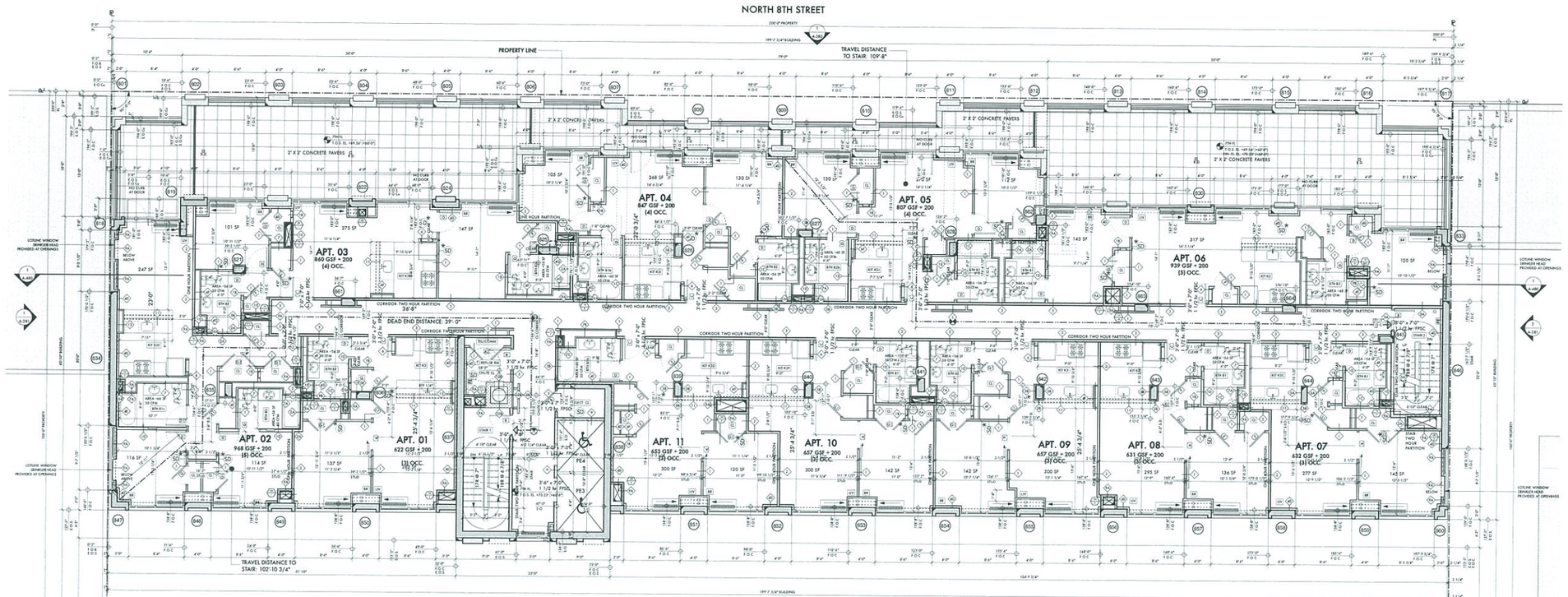
No.	Issue	Date
	ISSUED FOR DER	10.18.12
4.	ISSUED FOR FILING	09.12.12
3.	ISSUED FOR FILING	08.14.12
2.	ISSUED FOR FILING	07.23.12
1.	ISSUED FOR FILING	06.01.12

2ND - 6TH FLOOR CONSTRUCTION PLAN

A-182.00

Scale: 3/16"=1'-0"

Sheet No.: 16 OUT OF 34



HABITABLE ROOMS	
Apartment	Habitable Rooms
01	2
02	3
03	3
04	3
05	3
06	3
07	2
08	2
09	2
10	2
11	2

NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE
2. SMOKE & CO DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR
3. ALL TENANT RECREATION AREAS ARE HANDICAPPED ACCESSIBLE AND USED BY ALL TENANTS
4. NO UNDERPINNING OR SHORING IS REQUIRED OR PROPOSED FOR THIS APPLICATIONS, REFER TO STRUCTURAL DRAWINGS
5. ALL BATHROOMS ARE MECHANICALLY VENTILATED (50 CFM)
6. ALL KITCHENETTES ARE MECHANICALLY VENTILATED (100 CFM)
7. ALL LOT LINE WINDOWS COMPLY WITH BC 704 & TABLE 704.8
8. BUILDING COMPLIES WITH SEISMIC REQUIREMENTS 1ST OF BUILDING SEPARATION PER 57' OF BUILDING HEIGHT
9. MIN CEILING HEIGHTS IN APARTMENT 8'-0"

TRAVEL DISTANCES

Occupancy Group R-2
Sprinklers = 200'-0"
Max. proposed travel distance = 109'-8"

DEAD END DISTANCES

Occupancy Group R-2 = 40'-0"
(allowed 80'-0" if 2 hr fire rated corridor)
Max. proposed dead end distance = 39'-0"

STAIR CHART

Stair	Width	Max. No. Persons
1	3'-0"	30
2	3'-0"	30
TOTAL		60

TOTAL OCCUPANCY LOAD

72 occupants < 60 O.K.

LEGEND

CONCRETE WALL - THREE HOUR FIRE RATING

8" SOLID CONCRETE BLOCK WALL - THREE HOUR FIRE RATING (REFUSE CHUTE PARTITION)

6" 75% SOLID CONCRETE BLOCK WALL TWO HOUR FIRE RATING

4 1/2" DRYWALL PARTITION
2 1/2" METAL STUDS AT 16" O.C
1 X LAYER 5/8" GWB ONE SIDE
2 X LAYER 5/8" GWB ONE SIDE
ONE HOUR FIRE RATING
MEA NO.: 81-98-M

2 1/2" DRYWALL VENT SHAFT PARTITION
TWO HOUR FIRE RATING
SSA NO: 898-67-SM

5" DRYWALL PARTITION
3 1/2" METAL STUDS @ 16" O.C.
2 X LAYER 5/8" GWB EACH SIDE
TWO HOUR FIRE RATING
MEA NO.: 81-98-M

4" CH STUD W/ 1" FIRE RATED GWB
2 LAYERS 5/8" FIRE RATED GWB
MEA NO.: 481-91-M
TWO HOUR FIRE RATED SHAFT WALL

1 5/8" MTL STUD
1 LAYER 5/8" FIRE RATED GWB, EACH SIDE OF SHAFT
ONE HOUR FIRE RATED SHAFT WALL

MAXIMUM DISTANCE TRAVELED

SD SMOKE DETECTOR/CO COMBO

SD SMOKE DETECTOR

HD HEAT DETECTOR

EXIT SIGN

DUCT SIZES & SLAB OPENINGS AT 7TH FLOOR

VENT NO.		DUCT	SLAB OPNG
GX	1,3	18 X 12	20 X 14
GX	2,3	29 X 12	30 X 14
GX	4,6	50 X 18	52 X 20
RX	1	10 X 10	12 X 12
RTU	1	16 X 10	18 X 12
RTU	2	16 X 12	18 X 14
RTU	3	24 X 14	26 X 16
KX	1,2,3	22 X 8	24 X 10
KX	4,5	16 X 10	18 X 12
TX	1,2,3,4,5,6,7,8,9,10, 11,12,13,14,15,17	14 X 6	16 X 8
TX	16	12 X 10	14 X 12

SLAB OPENING CORNER #1

METAL VENT WITH BOOT TAP

ALL DUCTS TO BE ENCLOSED IN 2-HR FIR-RATED VENT SHAFT CONSTRUCTION SEE PARTITION SCHEDULE

DATUM ELEVATION NORTH 8TH STREET 9.54' = (0'-0")

N

REGISTERED ARCHITECT RANDOLPH H. GERNER No. 013369 NEW YORK

N7

N8

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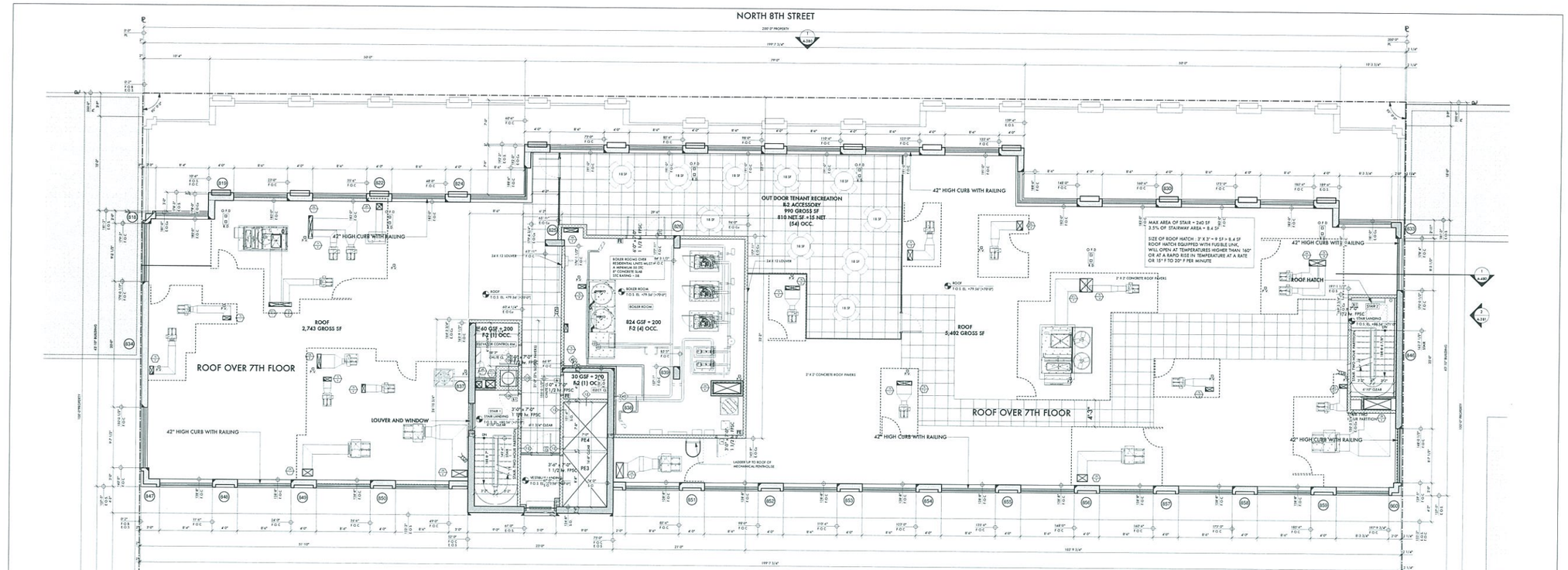
	ISSUED FOR FILING	06.01.12

7TH FLOOR CONSTRUCTION PLAN

A-187.00

Scale: 3/16"=1'-0"

Sheet No.: 16 OUT OF 34



NOTES:

1. ALL RESIDENTIAL BATHROOMS AND KITCHENS TO BE HANDICAPPED ADAPTABLE
2. SMOKE & CO DETECTORS ARE NOT TO BE MORE THAN 15'-0" AWAY FROM A BEDROOM DOOR
3. ALL TENANT RECREATION AREAS ARE HANDICAPPED ACCESSIBLE AND USED BY ALL TENANTS
4. NO UNDERPINNING OR SHORING IS REQUIRED OR PROPOSED FOR THIS APPLICATIONS. REFER TO STRUCTURAL DRAWINGS
5. ALL BATHROOMS ARE MECHANICALLY VENTILATED
6. ALL KITCHENETTES ARE MECHANICALLY VENTILATED
7. ALL LOT LINE WINDOWS COMPLY WITH BC 704 & TABLE 704.8
8. BUILDING COMPLIES WITH SEISMIC REQUIREMENTS 1% OF BUILDING SEPARATION PER 50' OF BUILDING HEIGHT
9. BOILERS, COMPRESSORS AND FANS LOCATED ABOVE DWELLING UNITS ARE TO BE MOUNTED ON VIBRATION ISOLATORS

STAIR CHART

Stair	Width	Max. No. Persons
1	3'-0"	30
2	3'-0"	30
TOTAL		60

TOTAL OCCUPANCY LOAD

60 occupants < 60 O.K.

A-780

PROPERTY LINE

LEGEND

- CONCRETE WALL - THREE HOUR FIRE RATING
- 8" SOLID CONCRETE BLOCK WALL - THREE HOUR FIRE RATING (REFUSE CHUTE PARTITION)
- 6" 75% SOLID CONCRETE BLOCK WALL TWO HOUR FIRE RATING
- 4 1/2" DRYWALL PARTITION 2 1/2" METAL STUDS AT 16" O.C 1 X LAYER 5/8" GWB ONE SIDE 2 X LAYER 5/8" GWB ONE SIDE ONE HOUR FIRE RATING MEA NO.: 81-98-M
- 2 1/2" DRYWALL VENT SHAFT PARTITION TWO HOUR FIRE RATING BSA NO: 898-87-SM
- 5" DRYWALL PARTITION 2 1/2" METAL STUDS @ 16" O.C. 2 X LAYER 5/8" GWB EACH SIDE TWO HOUR FIRE RATING MEA NO: 81-98-M
- 4" CH STUD W/ 1" FIRE RATED GWB 2 LAYERS 5/8" FIRE RATED GWB MEA NO: 481-91-M TWO HOUR FIRE RATED SHAFT WALL
- 1 5/8" MTL STUD 1 LAYER 5/8" FIRE RATED GWB. EACH SIDE OF SHAFT ONE HOUR FIRE RATED SHAFT WALL
- MAXIMUM DISTANCE TRAVELED
- SD SMOKE DETECTOR/CO COMBO
- SMOKE DETECTOR
- HD HEAT DETECTOR
- EXIT SIGN

DUCT SIZES & SLAB OPENINGS AT ROOF

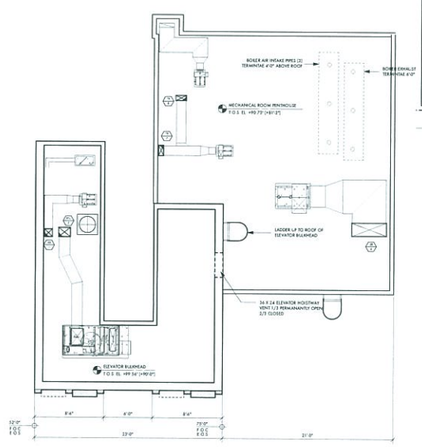
VENT NO.	DUCT	SLAB OPNG.
GX 1,5	18 X 12	30 X 14
GX 3,3	28 X 12	30 X 14
GX 4,6	50 X 18	52 X 20
RX 1	10 X 10	12 X 12
RTU 1	16 X 10	18 X 12
RTU 2	16 X 12	18 X 14
RTU 3	24 X 14	26 X 16
KX 1,2,3	22 X 8	24 X 20
KX 4,5	16 X 10	18 X 12
TX 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17	14 X 6	16 X 8
TX 16,18	10 X 10	12 X 12

A-8 SLAB OPENING CORNER PT. — METAL VENT WITH ROOT TAP

ALL DUCTS TO BE ENCLOSED IN 2 HR FIRE RATED VENT SHAFT CONSTRUCTION SEE PARTITION SCHEDULE

DATUM ELEVATION NORTH 8TH STREET: R 56' = (0'-0")

N



1 BULKHEAD PLAN
Scale: 3/16" = 1'-0"

2 STAIR BULKHEAD PLAN
Scale: 3/16" = 1'-0"

REGISTERED ARCHITECT
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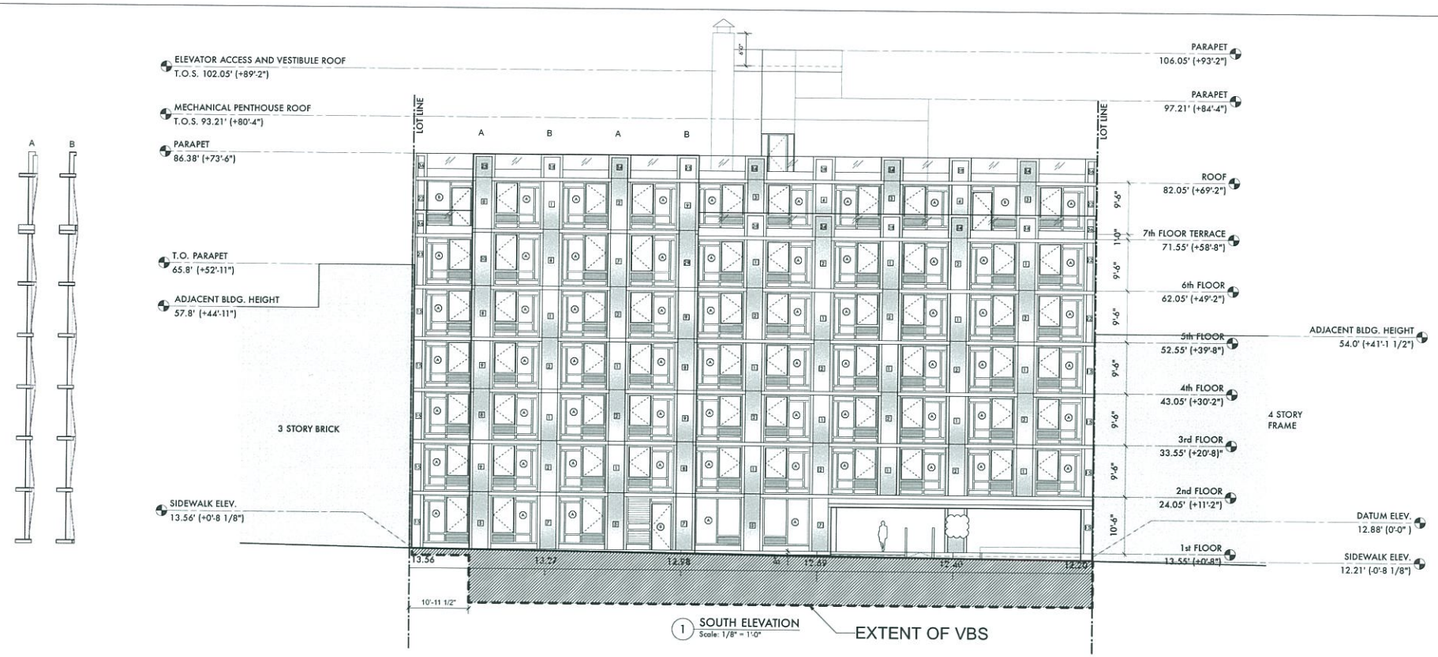
1.	ISSUED FOR FILING	06.01.12

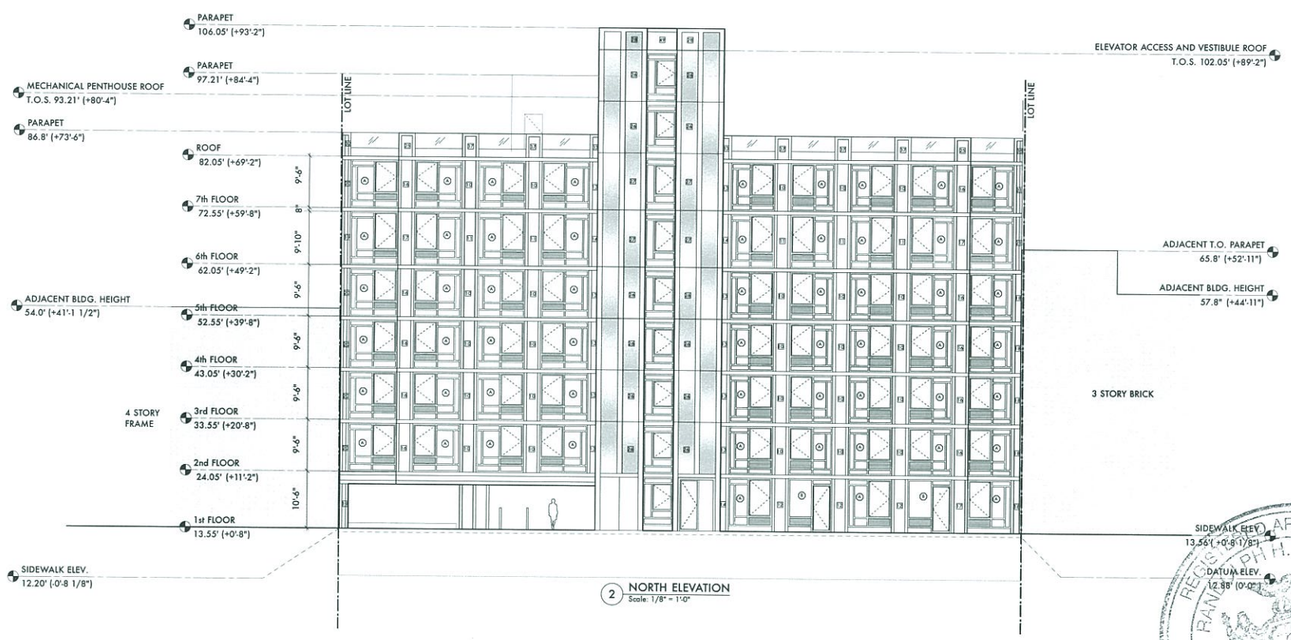
ROOF & BULKHEAD CONSTRUCTION PLAN

A-188.00

Scale: 3/16"=1'-0" | Sheet No.: 16 OUT OF 34



1 SOUTH ELEVATION
Scale: 1/8" = 1'-0"



2 NORTH ELEVATION
Scale: 1/8" = 1'-0"

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Revisions

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REGISTERED ARCHITECT
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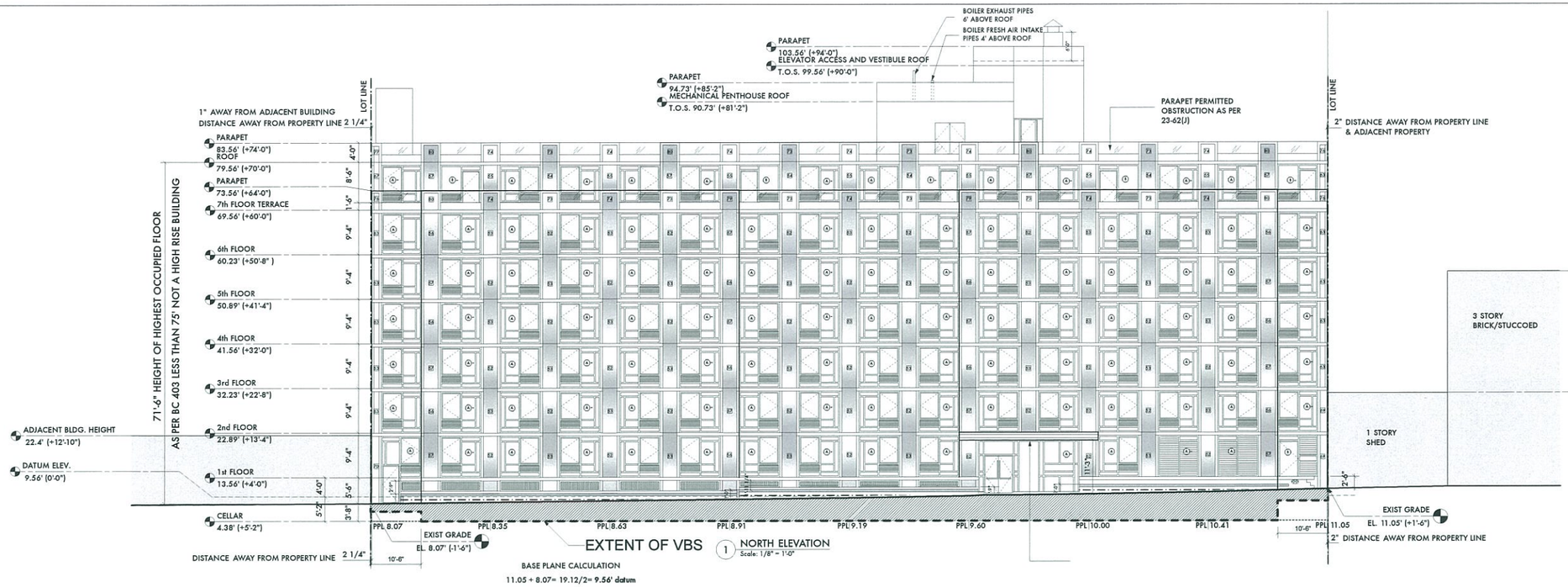
No. 015360
STATE OF NEW YORK

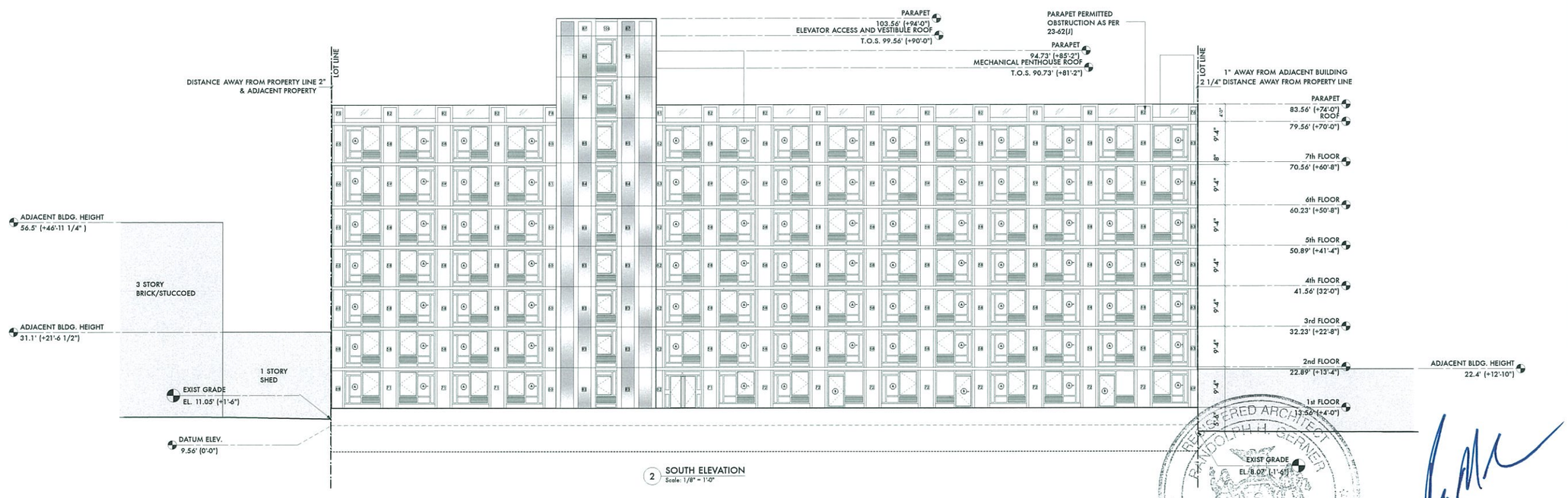
N7 NORTH & SOUTH
BUILDING ELEVATIONS

A-370.00

Scale: 1/8"=1'-0"

Sheet No.: 18 OUT OF 25





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N8 NORTH & SOUTH BUILDING ELEVATIONS

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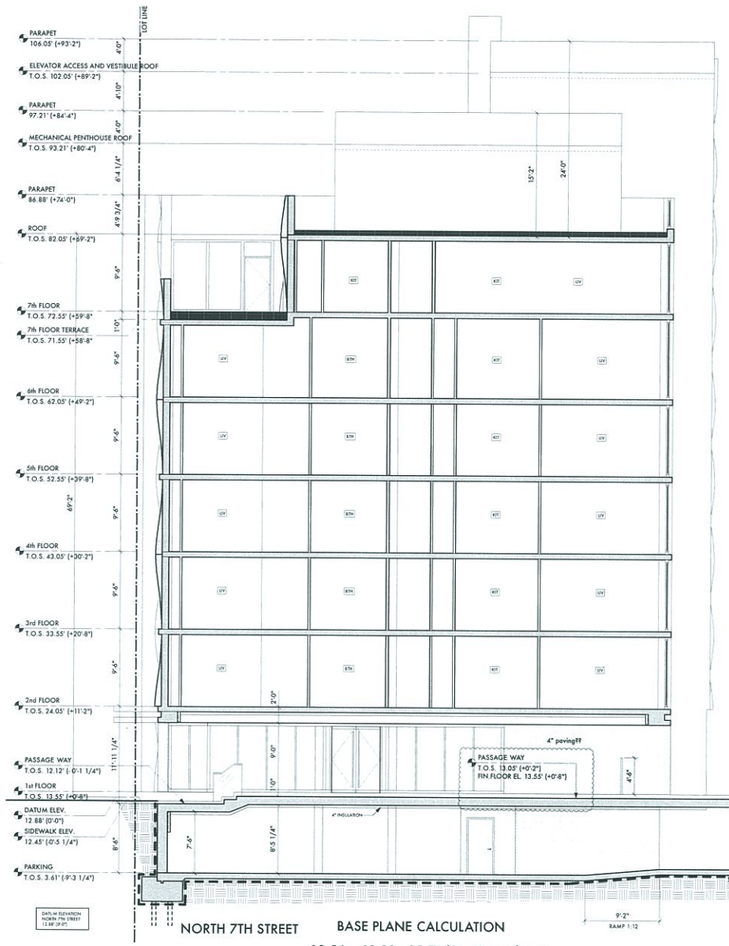
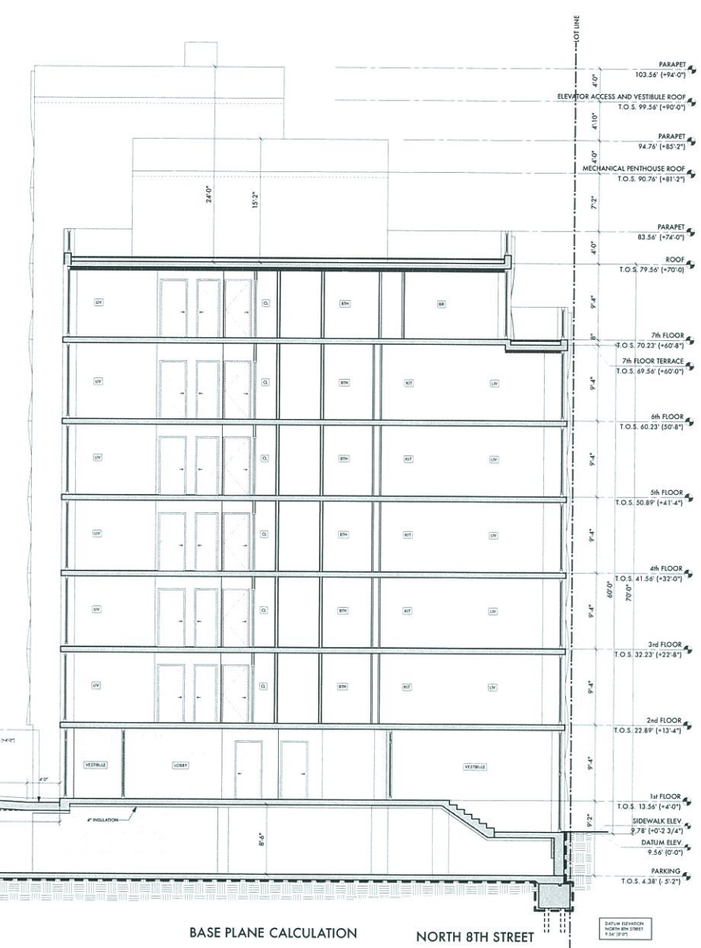
Scale: 1/8"=1'-0"

Sheet No.: 18 OUT OF 34





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BUILDING SECTION
NORTH 7TH NORTH 8TH

A-401.00

Scale: 3/16"=1'-0" | Sheet No.: 15 OUT OF 32

Grace Below Grade Waterproofing

GRACE

PREPRUFE® 300R & 160R

Pre-applied waterproofing membranes that bond integrally to poured concrete for use below slabs or behind basement walls on confined sites

Description

Preprufe® 300R & 160R membranes are unique composite sheets comprising a thick HDPE film, an aggressive pressure sensitive adhesive and a weather resistant protective coating.

Unlike conventional non-adhering membranes, which are vulnerable to water ingress tracking between the unbonded membrane and structure, the unique Preprufe bond to concrete prevents ingress or migration of water around the structure.

The Preprufe R System includes:

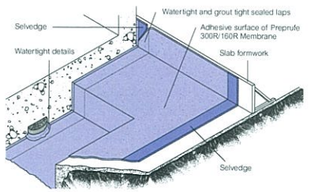
- **Preprufe 300R**—heavy-duty grade for use below slabs and on rafts (i.e. mud slabs). Designed to accept the placing of heavy reinforcement using conventional concrete spacers.
- **Preprufe 160R**—thinner grade for blindside, zero property line applications against soil retention systems.
- **Preprufe Tape LT**—for covering cut edges, roll ends, penetrations and detailing (temperatures between 25°F (-4°C) and 86°F (+30°C)).
- **Preprufe Tape HC**—as above for use in Hot Climates (minimum 50°F (10°C)).
- **Bituthene® Liquid Membrane**—for sealing around penetrations, etc.
- **Adcor™ ES**—waterstop for joints in concrete walls and floors
- **Preprufe Tieback Covers**—preformed cover for soil retention wall tieback heads
- **Preprufe Preformed Corners**—preformed inside and outside corners

Preprufe 300R & 160R membranes are applied either horizontally to smooth prepared concrete, carton forms or well rolled and compacted earth or crushed stone substrate; or vertically to permanent formwork or adjoining structures. Concrete is then cast directly against the adhesive side of the membranes. The specially developed Preprufe adhesive layers work together to form a continuous and integral seal to the structure.

Preprufe can be returned up the inside face of slab formwork but is not recommended for conventional twin-sided formwork on walls, etc. Use Bituthene self-adhesive membrane or Procor® fluid applied membrane to walls after removal of formwork for a fully bonded system to all structural surfaces.

Advantages

- **Forms a unique continuous adhesive bond to concrete poured against it**—prevents water migration and makes it unaffected by ground settlement beneath slabs
- **Fully-adhered watertight laps** and detailing
- **Provides a barrier to water, moisture and gas**—physically isolates the structure from the surrounding ground
- **BBA Certified** for basement Grades 2, 3, & 4 to BS 8102:1990
- **Zero permeance** to moisture
- **Solar reflective**—reduced temperature gain
- **Simple and quick to install**—requiring no priming or fillets
- **Can be applied to permanent formwork**—allows maximum use of confined sites
- **Self protecting**—can be trafficked immediately after application and ready for immediate placing of reinforcement
- **Unaffected by wet conditions**—cannot activate prematurely
- **Inherently waterproof, non-reactive system:**
  - not reliant on confining pressures or hydration
  - unaffected by freeze/thaw, wet/dry cycling
- **Chemical resistant**—effective in most types of soils and waters, protects structure from salt or sulphate attack



Drawings are for illustration purposes only.
Please refer to graceconstruction.com for specific application details.

Installation

The most current application instructions, detail drawings and technical letters can be viewed at graceconstruction.com. For other technical information contact your local Grace representative.

Preprufe 300R & 160R membranes are supplied in rolls 4 ft (1.2 m) wide, with a selvedge on one side to provide self-adhered laps for continuity between rolls. The rolls of Preprufe Membrane and Preprufe Tape are interwound with a disposable plastic release liner which must be removed before placing reinforcement and concrete.

Substrate Preparation

All surfaces—It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids greater than 0.5 in. (12 mm). Grout around all penetrations such as utility conduits, etc. for stability (see Figure 1).

Horizontal—The substrate must be free of loose aggregate and sharp protrusions. Avoid curved or rounded substrates. When installing over earth or crushed stone, ensure substrate is well compacted to avoid displacement of substrate due to traffic or concrete pour. The surface does not need to be dry, but standing water must be removed.

Vertical—Use concrete, plywood, insulation or other approved facing to sheet piling to provide support to the membrane. Board systems such as timber lagging must be close butted to provide support and not more than 0.5 in. (12 mm) out of alignment.

Membrane Installation

Preprufe can be applied at temperatures of 25°F (-4°C) or above. When installing Preprufe in cold or marginal weather conditions 55°F (<13°C) the use of Preprufe Tape LT is recommended at all laps and detailing. Preprufe Tape LT should be applied to clean, dry surfaces and the release liner must be removed immediately after application. Alternatively, Preprufe Low Temperature (LT) is available for low temperature condition applications. Refer to Preprufe LT data sheet for more information.

Horizontal substrates—Place the membrane HDPE film side to the substrate with the clear plastic release liner facing towards the concrete pour. End laps should be staggered to avoid a build up of layers. Leave plastic release liner in position until overlap procedure is completed (see Figure 2).

Accurately position succeeding sheets to overlap the previous sheet 3 in. (75 mm) along the marked selvedge. Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Peel back the plastic release liner from between the overlaps as the two layers are bonded together. Ensure a continuous bond is achieved without creases and roll firmly with a heavy roller. Completely remove the plastic liner to expose the protective coating. Any initial tack will quickly disappear.

Refer to Grace Tech Letter 15 for information on suitable rebar chairs for Preprufe.

Vertical substrates—Mechanically fasten the membrane vertically using fasteners appropriate to the substrate with the the clear plastic release liner facing towards the concrete pour. The membrane may be installed in any convenient length. Fastening can be made through the selvedge using a small and low profile head fastener so that the membrane lays flat and allows firmly rolled overlaps. Immediately remove the plastic release liner.

Ensure the underside of the succeeding sheet is clean, dry and free from contamination before attempting to overlap. Roll firmly to ensure a watertight seal.

Roll ends and cut edges—Overlap all roll ends and cut edges by a minimum 3 in. (75 mm) and ensure the area is clean and free from contamination, wiping with a damp cloth if necessary. Allow to dry and apply Preprufe Tape LT (or HC in hot climates) centered over the lap edges and roll firmly (see Figure 3). Immediately remove printed plastic release liner from the tape.

Details

Refer to Preprufe Field Application Manual, Section V Application Instructions or visit graceconstruction.com. This manual gives comprehensive guidance and standard details.

Membrane Repair

Inspect the membrane before installation of reinforcement steel, formwork and final placement of concrete. The membrane can be easily cleaned by power washing if required. Repair damage by wiping the area with a damp cloth to ensure the area is clean and free from dust, and allow to dry. Repair small punctures (0.5 in. (12 mm) or less) and slices by applying Preprufe Tape centered over the damaged area and roll firmly. Remove the release liner from the tape. Repair holes and large punctures by applying a patch of Preprufe membrane, which extends 6 in. (150 mm) beyond the damaged area. Seal all edges of the patch with Preprufe Tape, remove the release liner from the tape and roll firmly. Any areas of damaged adhesive should be covered with Preprufe Tape. Remove printed plastic release liner from tape. Where exposed selvedge has lost adhesion or laps have not been sealed, ensure the area is clean and dry and cover with fresh Preprufe Tape, rolling firmly. Alternatively, use a hot air gun or similar to activate adhesive and firmly roll lap to achieve continuity.

Pouring of Concrete

Ensure the plastic release liner is removed from all areas of Preprufe membrane and tape.

It is recommended that concrete be poured within 56 days (42 days in hot climates) of application of the membrane. Following proper ACI guidelines, concrete must be placed carefully and consolidated properly to avoid damage to the membrane. Never use a sharp object to consolidate the concrete.

Removal of Formwork

Preprufe membranes can be applied to removable formwork, such as slab perimeters, elevator and lift pits, etc. Once the concrete is poured the formwork must remain in place until the concrete has gained sufficient compressive strength to develop the surface bond. Preprufe membranes are not recommended for conventional twin-sided wall forming systems.

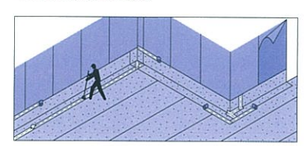
A minimum concrete compressive strength of 1500 psi (10 N/mm²) is recommended prior to stripping formwork supporting Preprufe membranes. Premature stripping may result in displacement of the membrane and/or spalling of the concrete.

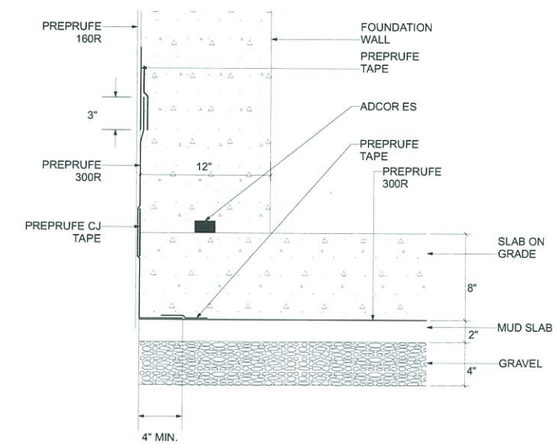
Refer to Grace Tech Letter 17 for information on removal of formwork for Preprufe.

Figure 1

Figure 2

Figure 3





1 WALL BASE DETAIL AGAINST PERMANENT SHUTTER
Scale: 3" = 1'-0"

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Revisions

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VAPOR BARRIER DESIGN AND SPECIFICATIONS (PG1-2)

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Sheet No.: x OUT OF xx

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11/09/06 PTC

Grace Construction Products

GRACE
Construction Products

1. Product Name
Preprufe® 300R and 160R Waterproofing Systems

2. Manufacturer
Grace Construction Products
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Cambridge, MA 02140
(866) 333-3SBM (3726)
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www.graceconstruction.com

3. Product Description

BASIC USE

Preprufe® 300R and Preprufe 160R membranes are used in blind side waterproofing applications where positive side waterproofing is desired but the positive side of the structure is not accessible once the concrete is poured.

Preprufe 300R Membrane is used primarily in under slab and below-grade split slab applications. Preprufe 300R Membrane is applied over properly prepared earth, stone or concrete. Concrete is cast against the adhesive side of the membrane. Preprufe 300R Membrane incorporates an exceptionally tough HDPE film and is designed to allow foot traffic directly on the membrane during construction.

Preprufe 160R Membrane is used in vertical applications. It is applied to properly prepared soil retention systems and concrete is cast against the membrane.

COMPOSITION & MATERIALS

Preprufe 300R and Preprufe 160R membranes are multilayered composite sheets consisting of an exceptionally tough HDPE film, a specially formulated synthetic pressure sensitive adhesive and a protective coating.

ACCESSORY COMPONENTS
- Preprufe Tape
- Preprufe Tieback Cover
- Bituthene® Liquid Membrane
- Preprufe CJ Tape

4. Technical Data

APPLICABLE STANDARDS

ASTM International
- ASTM C836 Standard Specification for High Solids Content, Cold Liquid-Applied Bastomeric Waterproofing Membrane for Use with Separate Wearing Course
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension
- ASTM D570 Standard Test Method for Water Absorption of Plastics
- ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- ASTM D903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
- ASTM D1876 Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)
- ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- ASTM D3767 Standard Practice for Rubber-Measurement of Dimensions
- ASTM D5385 Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM E154 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover

PHYSICAL PROPERTIES

For detailed information on the physical properties of Preprufe 300R and Preprufe 160R Membranes, see Table 1.

5. Installation

Apply membranes when ambient temperatures are 25 degrees F (-4 degrees C) or above. Substrates must be smooth and sound with no gaps or voids in excess of 1/2" (13 mm).

FORMING SYSTEMS

It is very important to specify a forming system that is compatible with the Preprufe system. One-sided wall forming systems are clearly the best choice since there are no form ties used in this system. Therefore, there are no penetrations to the waterproofing layer. Other compatible systems include gang forms with load gathering form ties. These systems minimize the number of penetrations.

Hand set forming systems or, more specifically, use of form ties with ultimate load capabilities of less than 10,000 lb (44,500 N) per tie are not recommended. These systems have many form ties that penetrate the waterproofing.

Formwork

On vertical applications, use one-sided wall forming systems to minimize punctures in the membrane after the membrane is installed. Review Technical Letter "Forming Systems for use with Preprufe 160R Membrane."

APPLICATION

Vertical Applications

Apply the membrane with the thick white HDPE film side facing the prepared substrate and the protective coating side facing the concrete to be poured. The membrane may be installed in any convenient length vertically. For lengths of membrane greater than 8' (2.4 m), mechanically fasten the membrane at 2' (0.6 m) intervals centered in the self-adhesive selvedge prior to making the side lap, using small head nails or staples.

Using the lap line as a guide, apply subsequent sheets overlapping the in-place sheet 3" (75 mm) along the self-adhesive selvedge of the membrane. Avoid overlapping membrane beyond the guideline to prevent fishmouths. Should they occur, apply Preprufe Tape centered over the fishmouth, roll firmly to form a tight seal and remove release liner.

It is important that all nail heads be covered with the overlapping sheets of membrane. Side laps must be immediately rolled firmly to ensure a tight seal. A metal seam roller is recommended. To maximize adhesion in colder temperatures or in damp conditions, apply gentle heat to the lap area using a hot air gun (see Technical Letters). Overlap the ends of the membrane a minimum of 3" (75 mm). Remove and discard the release liner from both sheets. Apply Preprufe Tape centered over the end lap and edges of membrane not sealed by selvedge. Roll firmly to form a tight seal. Remove release liner from tape and discard.

For additional protection, Hydroduct® Tape may be applied between the sheets in the end lap area prior to application of the Preprufe Tape. Secure the top termination of the membrane with a termination bar and fasteners.

If the top termination is to be covered by the concrete pour, a strip of Preprufe CJ Tape must be placed over the termination bar and fasteners. Place the termination bar 2" (50 mm)

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below the top edge of the membrane. If the membrane will tie into subsequent sheets of Preprufe, Bituthene Membrane or other waterproofing, leave an additional 12" (300 mm) length of Preprufe 160R membrane. Protect this length from damage and do not remove the release liner. This length of clean membrane will be used to complete the appropriate waterproofing details after the concrete or lift is poured.

Horizontal Applications

Roll out the membrane with the thick white HDPE film side facing the prepared substrate and the protective coating side facing the concrete to be poured. Remove the clear release liner at the time of installation. Using the lap line as a guide, align and roll out subsequent sheets overlapping the in-place sheet 3" (75 mm) along the self-adhesive selvedge of the membrane. Side laps must be immediately rolled firmly to ensure a tight seal. A heavy metal seam roller is recommended.

Avoid overlapping membrane beyond the guideline to prevent fishmouths. Should this occur, apply Preprufe Tape centered over the fishmouth, roll firmly to form a tight seal and remove release liner. To maximize adhesion in cooler temperatures or in damp conditions, apply gentle heat to the lap area using a hot air gun (see Technical Letters section of website). The membrane may be installed in any convenient length. Overlap the ends of the membrane 3" (75 mm) and remove and discard the release liner from both sheets. Apply Preprufe Tape centered over the end lap and edges of membrane not sealed by selvedge. Roll firmly to form a tight seal. Remove release liner from tape and discard.

For additional protection, Hydroduct Tape may be applied between the sheets in the end lap area prior to application of the Preprufe Tape.

Internal & External Corners

Install the Preprufe Membrane according to standard application instructions detailed for vertical and horizontal applications above. Internal and external corners should be formed as shown in the Detail Drawings, returning the membrane a minimum of 4" (100 mm).

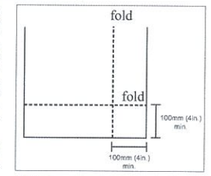

Figure 1

Internal Corners

Fold the membrane as indicated in Figure 1. Crease the fold with nominal hand pressure to ensure a close fit to the substrate profile and avoid hollows. With the white coating facing toward the concrete, ensure that the apex of the corner is covered and sealed with Preprufe Tape. Remove release liner and roll firmly.

External Corners

Fold the membrane as indicated in Figure 1. Crease the fold with nominal hand pressure to ensure a close fit to the substrate profile and avoid hollows. Cut the Preprufe membrane in order to wrap around corner. With the white coating facing toward the concrete, ensure that the apex of the corner is covered and sealed with Preprufe Tape. Remove release liner and roll firmly.

TABLE 1 PHYSICAL PROPERTIES OF PREPRUFE 160R AND PREPRUFE 300R MEMBRANES

Property & test method	Typical values: Preprufe 160R Membrane	Typical values: Preprufe 300R Membrane
Color	White	White
Thickness, ASTM D3767, Method A	0.032' (0.8 mm) nominal	0.046' (1.2 mm) nominal
Low temperature flexibility, ASTM D1970	Unaffected at -10°F (-23°C)	Unaffected at -10°F (-23°C)
Resistance to hydrostatic head, minimum, ASTM D5385, Modified [1]	23' (70 m)	23' (70 m)
Elongation, minimum, ASTM D412, Modified [2]	300%	300%
Tensile strength, film, minimum, ASTM D882	4000 psi (27.6 MPa)	4000 psi (27.6 MPa)
Crack cycling, at -10°F (-23°C), 100 cycles, ASTM C836	Unaffected	Unaffected
Puncture resistance, minimum, ASTM E154	100 lb (445 N)	221 lb (990 N)
Peel adhesion to concrete, minimum, ASTM D903, Modified [3]	5.0 lb/in width (880 N/m)	5.0 lb/in width (880 N/m)
Lap peel adhesion, ASTM D1876, Modified [4]	2.5 lb/in width (440 N/m)	2.5 lb/in width (440 N/m)
Permeance to water vapor transmission, maximum, ASTM D96, Method B	0.01 perms (0.6 ng/(Pa × s × m²))	0.01 perms (0.6 ng/(Pa × s × m²))
Water absorption, maximum, ASTM D570	0.5%	0.5%

[1] Hydrostatic head tests of Preprufe Membranes are performed by casting concrete against the membrane with a lap. Before the concrete cures, a 0.125' (3 mm) spacer is inserted perpendicular to the membrane to create a gap. The cured block is placed in a chamber where water is introduced to the membrane surface up to the head indicated.

[2] Elongation of membrane is run at a rate of 2' (51 mm) per minute.

[3] Concrete is cast against the protective coating surface of the membrane and allowed to properly dry (7 days minimum). Peel adhesion of membrane to concrete is measured at a rate of 2' (51 mm) per minute at room temperature.

[4] The test is conducted 15 minutes after the lap is formed (per Grace published recommendations) and run at a rate of 2' (51 mm) per minute at 25°F (-4°C).

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ensure a close fit to the substrate profile and avoid hollows. Cut the Preprufe membrane in order to wrap around corner. With the white coating facing toward the concrete, ensure that the apex of the corner is covered and sealed with Preprufe Tape. Remove release liner and roll firmly.

Round Penetrations

For Service Pipes, Lighting Conduit, Piles, etc. - Follow these steps to seal around penetrations:

1. All penetrations must be firmly secured and stable. Grout around all penetrations that are not stable. Clean loose dust or dirt from the penetration surface using a clean, dry cloth or brush. Remove rust, if applicable, with a wire brush and wipe clean.
2. Cut the field membrane tight to the penetration and remove release liner. If membrane is not within 1/2" (12 mm) of penetration and not more than 2" (50 mm) from penetration, apply Preprufe Tape to cover the gap. Roll firmly into place and remove release liner. If the membrane is greater than 2" (51 mm) from penetration, install more Preprufe Membrane to cover the gap, repeating these instructions until Preprufe Membrane/Tape is within 1/2" (12 mm).
3. Mix and apply Bituthene Liquid Membrane around the penetration. Liquid Membrane should be placed to form a minimum 1" (25.4 mm) continuous fillet between the Preprufe Membrane/Tape and the base of the penetration.
4. Cut a patch of Preprufe Membrane that is a minimum of 12" (300 mm) larger than the diameter or width of the penetration so that the patch extends 6" (150 mm) beyond the penetration in all directions. Remove the release liner and center the patch over penetration and trace/draw the penetration profile onto the patch. Using sheers or a utility knife, make relief cuts through the membrane. Triangles formed by making a relief cut are not to exceed 2" (50 mm) in height when placed over penetration. In other words, penetration diameters greater than 4" (100 mm) need to be trimmed. Remove and discard release liner.

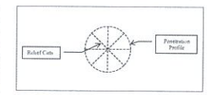

Figure 2

5. Slide the patch over penetration and press into the partially cured Liquid Membrane. Ensure that the patch is pressed firmly into the Liquid Membrane and is positioned directly onto the Preprufe Field Membrane/Tape below. Using a trowel, smooth out any Liquid Membrane that has flowed out of the relief cut.
6. Apply Preprufe Tape centered over the edges of the patch and roll firmly to form a tight seal. Remove release liner from tape and discard.
7. Wrap the penetration with Preprufe Tape, positioning the tape at the base of the patch. Remove enough release liner to overlap Tape onto itself and roll/press firmly into place. Remove remaining release liner and discard.

Straight Edge Penetrations

For square piles, steel columns, waters, rakers, etc. - Follow these steps to seal around

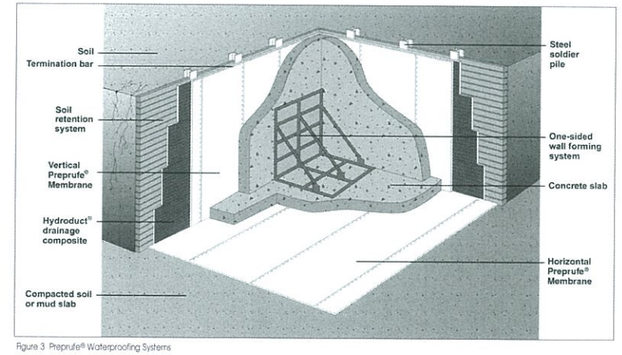

Figure 3 Preprufe® Waterproofing Systems

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Revisions

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VAPOR BARRIER SPECIFICATIONS (PG 3-5)

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Scale:NTS

Sheet No.: x OUT OF xx

penetrations:

1. All penetrations must be firmly secured and stable. Grout around all penetrations that are not stable. Clean loose dust or dirt from the penetration surface using a clean, dry cloth or brush. Remove rust, if applicable, with a wire brush and wipe clean.
2. Cut the field membrane tight to the penetration and remove release liner. If membrane is not within 1/2" (12 mm) of penetration and not more than 2" (51 mm) from penetration, apply Preprufe Tape to cover the gap. Roll firmly into place and remove release liner. If the membrane is greater than 2" (51 mm) from penetration, install more Preprufe Membrane to cover the gap repeating these instructions until Preprufe Membrane/Tape is within 1/2" (12 mm).
3. Mix and apply Bituthene Liquid Membrane around the penetration. Liquid Membrane should be placed to form a minimum 1" (25.4 mm) continuous fillet between the Preprufe Membrane/Tape and the base of the penetration. Apply a 90 mil (2.2 mm) continuous coating overlapping a minimum of 3" (75 mm) onto the surface of the Preprufe Membrane and the penetration.
4. Install a minimum 12" (300 mm) strip of Bituthene Membrane centered over the Preprufe Membrane and the penetration intersection.
5. Install Preprufe Tape to cover the strip of Bituthene Membrane by overlapping a minimum of 1" (25.4 mm) until a minimum of 2" (51 mm) overlap onto the Preprufe Membrane is achieved.
6. Terminate the top edge of the strip of Bituthene Membrane and Preprufe Tape along the penetration with a bead of Bituthene Liquid Membrane.

Wall Penetrations

For Rebar, All-Thread, Metal Dowels, etc. - Follow these steps to seal around penetrations:

1. Clean loose dust or dirt from the penetration and the surrounding substrate surface using a clean, dry cloth or brush. Remove rust, if applicable, with a wire brush and wipe clean.
2. Mix and apply Bituthene Liquid Membrane around the penetration. Liquid Membrane should be placed to form a minimum 1" (25.4 mm) continuous fillet between the substrate and the base of the penetration.
3. Cut the field membrane tight to the penetration and remove release liner. If membrane is not within 1/2" (12 mm) of penetration and not more than 2" (51 mm) from penetration, apply Preprufe Tape to cover the gap. Roll firmly into place and remove release. If the membrane is greater than 2" (51 mm) from penetration, install more Preprufe Membrane to cover the gap repeating these instructions until Preprufe Membrane/Tape is within 1/2" (12 mm).
4. Position the field membrane snug to the penetration so that it is a maximum of 1/2" (12 mm) from the base of the penetration and press firmly into the partially cured Liquid Membrane.
5. Apply Liquid Membrane to form a minimum 1" (25.4 mm) continuous fillet between the Preprufe Membrane and the base of the penetration. Extend a 90 mil (2.2 mm) continuous coating of Liquid Membrane overlapping a minimum of 3" (75 mm) onto the surface of the Preprufe Membrane and 6" (150 mm) onto the penetration.
6. Wrap the penetration with Preprufe Tape, positioning the tape at the base of the penetration. Remove enough release liner to overlap tape onto itself and roll/press firmly into place. Remove remaining release liner and discard.

Tiebacks

The Preprufe Tieback Cover is a specially designed, two-part cover used to maintain waterproofing integrity at soil retention tieback heads. The Preprufe Tieback Cover consists of a rigid ABS plastic base and prefabricated Preprufe membrane cover.

1. Install Preprufe Membrane within 2" of tieback as per standard installation instructions.
2. Center the base over tieback head and secure base to soil retention system using appropriate fasteners. Fasteners should have a low profile head.
3. Apply Preprufe Tape centered over the edge of the base flange and roll firmly to form a tight seal. Remove release liner and discard.
4. Position the membrane cover over the base taking care to ensure the cover flange sits flat onto the Preprufe Membrane.
5. Apply Preprufe Tape centered over the edge of the cover flange and roll firmly to form a tight seal. Remove release liner and discard.

Note: All Preprufe Tape should overlap onto surfaces of tape, membrane, base, cover, etc., a minimum of 50 mm (2").

Columns

There are 2 common methods to create a waterproof seal under columns.

- Column Option 1 - Preprufe Membrane is placed over the column footing and directly under the column. Tie-in penetrations such as rebar and threaded rod that penetrate the membrane should be sealed with Bituthene Liquid Membrane. Cut the membrane tight to the penetration. If membrane is not within 1/2" (12 mm) of penetration, apply Preprufe Tape to cover the gap. Mix and apply Bituthene Liquid Membrane around the penetration. Bituthene Liquid Membrane should be placed to form a minimum 1" (25.4 mm) continuous fillet around the penetration at the point of penetration. Bituthene Liquid Membrane should be applied as a 90 mil (2.2 mm) continuous coating overlapping a minimum of 3" (75 mm) onto the surface of the Preprufe membrane.
- Column Option 2 - Preprufe Membrane is placed below the column footing before it is poured. The membrane is installed following the vertical and horizontal application instructions described earlier in this section. When placing the membrane, it is important to leave sufficient length of Preprufe 300R beyond the footing to allow for tie-in to the Preprufe Membrane that will be laid to waterproof the general slab area. The release liner must not be removed from this extra length, and it should be protected from damage until the tie-in details are completed.

Grade Beam Pile Caps

The preferred methods to waterproof pile caps are to either "tank" or "cover" the pile cap.

- Pile Cap Option 1 (Tanking Option) - Install Preprufe Membrane over the prepared substrate as instructed in horizontal applications above. Preprufe Membrane is placed in the area formed for the pile cap before the concrete is poured. When placing the membrane, it is important to leave sufficient length of Preprufe beyond the pile cap area to allow for tie-in to the Preprufe Membrane that will be laid to waterproof the general slab area. Cut membrane tight to each pile and complete detail around each pile as instructed earlier in this section for a Penetration Detail.
- Pile Cap Option 2 (Covering Option) - For mud slabs, clean loose dust or dirt from the pile cap and mud slab surface using a clean, dry cloth or brush. Apply a continuous 90 mil (2.2 mm) coating of Bituthene Liquid Membrane or Procor over the top of the pile cap. Place a 1" (25.4 mm) bead of Liquid Membrane or Procor around all penetrations at the point of penetration through the pile cap. Prime along the edge of the mud slab a minimum of 6" (150 mm) from the edge of pile cap with a Bituthene Primer and allow to dry. Align a 9" (225 mm) strip of Bituthene Membrane centered over the edge of the pile cap. Remove release liner and roll firmly onto the Liquid Membrane and primed mud slab. Install Preprufe Membrane over the prepared substrate and terminate it 2" (51 mm) onto the pile cap. Apply Preprufe Tape centered over the Preprufe Membrane termination. Remove the release liner and roll firmly. Seal Bituthene Membrane and Preprufe Tape edge with a termination bead of Liquid Membrane.

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Pile Cap Option 2 for Compacted Earth

Apply a continuous 90 mil (2.2 mm) coating of Bituthene Liquid Membrane or Procor over the top of the pile cap. Place a 1" (25.4 mm) bead of Liquid Membrane or Procor around all penetrations at the point of penetration through the pile cap. Remove compacted earth away from the sides of pile cap. Clean loose dust or dirt from the pile cap surface using a clean, dry cloth or brush.

Prime the sides of the pile cap a minimum of 6" (150 mm) from the top of pile cap with a Bituthene Primer and allow to dry. Align a 9" (225 mm) strip of Bituthene Membrane centered over the outside edge (outside corner) of the pile cap. Remove release liner and roll firmly onto the Liquid Membrane and primed sides of pile cap. Align a 12" (300 mm) strip of Bituthene Membrane centered over the outside edge (outside corner) of the pile cap. Remove half of release liner by scoring release liner along the center of the strip.

Roll firmly onto the sides of pile cap with the 9" (225 mm) strip of Bituthene Membrane and the remaining primed pile cap. Leave the other half of the 12" (300 mm) strip with the release liner still intact in order to receive the Preprufe Membrane. Replace earth/fill and compact per standard back-filling instructions being careful not to damage the Bituthene strip including the non-bonded portion. Invert the Bituthene strip, and remove the remaining release liner to expose the adhesive portion of the Bituthene.

Install Preprufe Membrane over the prepared substrate and terminate it 2" (51 mm) onto the pile cap. Roll firmly onto the inverted Bituthene strip. Apply Preprufe Tape centered over the Preprufe Membrane termination. Remove the release liner and roll firmly. Seal Bituthene Membrane and Preprufe Tape edge with a termination bead of Liquid Membrane.

Pile Cap Option 2 for Non-Continuous Covering

If the Structural Engineer or the design does not allow for the waterproofing to "cover" the pile cap, there must be a minimum 6" (150 mm) continuous shoulder along the perimeter of the pile cap to allow for a proper termination. Apply a continuous 90 mil (2.2 mm) coating of Bituthene Liquid Membrane or Procor onto the top of the pile cap along the outside edge.

Apply a 6" (150 mm) strip of Bituthene Membrane onto the Bituthene Liquid Membrane or Procor along the edge of the pile cap. Install Preprufe Membrane over the prepared substrate and terminate it 2" (51 mm) onto the pile cap. Apply Preprufe Tape centered over the Preprufe Membrane termination. Remove the release liner and roll firmly. Seal Bituthene Membrane and Preprufe Tape edge with a termination bead of Liquid Membrane.

Construction Joints

Install the Preprufe membrane according to standard horizontal and vertical application instructions detailed above. Preprufe CJ Tape should be applied to the surface of the Preprufe membrane and centered along the line of all concrete joints. Remove release liner and roll firmly.

Tie-Ins

Preprufe 160R to Preprufe 300R Sub Slab Waterproofing - Install Preprufe 300R Membrane over the prepared substrate as detailed in horizontal and vertical applications above. Continue onto the vertical surface of the prepared soil retention system a minimum of 18" (450 mm) above the finished elevation of the structural floor slab.

Secure the top of the membrane to temporarily hold it in place on the vertical substrate. Care should be taken to prevent damage to this exposed membrane from concrete back-splash as well as slag from rebar welding in wall forms. The exposed membrane on the vertical surface can be protected with protection board, plywood or other materials.

Following the vertical application instructions detailed above, install Preprufe 160R Membrane over the prepared vertical soil retention system. Unfasten the vertical length of the Preprufe 300R Membrane and tuck the Preprufe 160R behind the 18" (450 mm) length of Preprufe 300R, ensuring a minimum 3" (75 mm) lap. Complete the detail by installing Preprufe Tape centered over the lap being careful to seal any holes from fasteners. Roll firmly and remove the release liner.

Preprufe 300R to Post-Applied Wall Waterproofing - There are 2 options available to tie Preprufe 300R Membrane into wall waterproofing. In Option 1, the Preprufe 300R Membrane is installed under the concrete slab and the footing. Option 2 is intended for applications where the Preprufe 300R Membrane and wall waterproofing are connected through the wall and footing junction.

- Option 1 - Install Preprufe 300R Membrane over the prepared horizontal substrate and extend it up the vertical surface of the slab formwork. Terminate the membrane 6" (150 mm) above the top elevation of the structural floor slab or wall footing. Once the slab or footing is poured and cured for 7 days, remove the forms and trim the excess membrane above the slab (see Technical Letters). Install the wall membrane according to standard application procedures of the post-applied waterproofing manufacturer. Ensure that the wall membrane overlaps onto the surface of the Preprufe 300R by a minimum of 6" (150 mm).
- Option 2 - Prior to the pouring of the wall, apply a 90 mil (2.2 mm) coating of Bituthene Liquid Membrane on top of the footing area using standard application procedures. Extend the Bituthene Liquid Membrane 3" (75 mm) beyond the proposed wall width in each direction. Install the wall membrane according to standard application procedures of the post-applied waterproofing manufacturer. Ensure that the wall membrane overlaps onto the surface of the Preprufe 300R by a minimum of 6" (150 mm). On the inside of the wall, install a minimum 9" (225 mm) strip of Bituthene sheet membrane over the Bituthene Liquid Membrane that extends beyond the footing area. Install Bituthene Membrane by removing the release liner and firmly rolling the product in place. Install Preprufe 300R Membrane over the prepared substrate and terminate it at the center of the Bituthene sheet membrane strip. Apply Preprufe CJ Tape centered over the Preprufe 300R Membrane termination. Remove the release liner and roll firmly.

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Preprufe 160R to Plaza Deck Waterproofing - Install Preprufe 160R over the prepared vertical surface following the standard vertical application instructions above. Terminate the Preprufe 160R Membrane 6" (150 mm) above the proposed height of the finished wall. Once the wall is poured and properly cured, remove temporary forming and trim the excess Preprufe 160R remaining above the wall. Install the plaza deck waterproofing according to the manufacturer's standard installation procedures. Ensure that the plaza deck waterproofing overlaps the 160R membrane a minimum of 9" (225 mm) and terminate it onto the Preprufe 160R using a bead of Bituthene Liquid Membrane.

Preprufe 160R to Post-Applied Wall Waterproofing - Install Preprufe 160R over the prepared vertical surface following the standard vertical application instructions above. Extend the Preprufe 160R Membrane 12" (300 mm) beyond the end of the blind-side wall. As the foundation wall formwork is installed, fold the 12" (300 mm) piece of Preprufe 160R Membrane to form a sharp corner. Secure it to the inside face of the exterior form panel. Once the wall is poured and cured for seven days, remove the formwork and install the post-applied waterproofing according to the manufacturer's standard installation procedures.

Preprufe 300R Membrane Wall Termination

- Option 1 (Liquid Membrane Detail) - Install Preprufe 300R Membrane over a mud slab as detailed in horizontal applications above. For compacted earth, contact a local Grace representative. Install Preprufe 300R Membrane tight to all vertical and horizontal intersections. At the termination of the membrane, place a 1" (25.4 mm) fillet of Bituthene liquid membrane and trowel a 90 mil (2.2 mm) coating a minimum of 3" (75 mm) onto vertical and horizontal surfaces. Remove the release liner and install a minimum 12" (300 mm) strip of Bituthene Membrane centered over the horizontal termination. Install Preprufe Tape to cover the strip of Bituthene Membrane by overlapping a minimum of 1" (25.4 mm) until a minimum of 2" (51 mm) overlap onto the Preprufe Membrane is achieved. Terminate the top edge of the strip of Bituthene Membrane and Preprufe Tape along the wall with a bead of Bituthene Liquid Membrane.
- Option 2 (Sheet Membrane Detail) - Install Preprufe 300R Membrane over the prepared substrate as detailed in horizontal applications above. Install Preprufe 300R Membrane tight to all vertical and horizontal intersections. Install a minimum 6" (150 mm) strip of Bituthene Membrane on the vertical surface along the joint. Mix and apply Bituthene Liquid Membrane to form a minimum 1" (25.4 mm) continuous fillet between the Preprufe Membrane and the wall. Install Preprufe CJ Tape 6" (150 mm) from the edge of the wall onto the Preprufe Membrane and terminate 2" (51 mm) onto the strip of Bituthene Membrane. Install Preprufe CJ Tape onto the strip of Bituthene Membrane and overlap onto the previous Preprufe CJ Tape a minimum of 2" (51 mm). Terminate the top edge of the strip of Bituthene Membrane and Preprufe Tape along the wall with a bead of Bituthene Liquid Membrane.

Membrane Repair

Inspect the membrane for damage before placement of reinforcing steel, formwork and concrete. Repair small punctures 1/2" (12 mm), or less, and slices by applying Preprufe Tape centered over the damaged area and roll firmly. Remove the release liner from the tape. Repair holes and large punctures by applying a patch of Preprufe membrane, which extends 6" (150 mm) beyond the damaged area. Seal all edges of the patch with Preprufe Tape, remove the release liner from the tape and roll firmly.

CONCRETE PLACEMENT

Lightly soiled membrane should be cleaned with air blower and heavily soiled membrane should be cleaned with a power-washer. Cast concrete within 56 days (42 days in hot climates) of application of the membrane. Concrete must be placed carefully to avoid damage to the membrane. Never use a sharp object to consolidate concrete.

REMOVAL OF FORMWORK

Preprufe Membranes can be applied to removable formwork, such as slab perimeters, elevator and lift pits, etc. Once the concrete is poured, the formwork must remain in place until the concrete has gained sufficient compressive strength to develop the surface bond. Preprufe Membranes are not recommended for conventional twin-sided wall forming systems.

A minimum concrete compressive strength of 1500 psi (10 N/mm^2) is recommended prior to stripping formwork supporting Preprufe Membranes. Premature stripping may result in displacement of the membrane and/or spalling of the concrete.

As a guide, to reach the minimum compressive strength stated above, a structural concrete mix with an ultimate strength of 6000 psi (40 N/mm^2) will typically require a cure time of approximately 6 days at an average ambient temperature of 25 degrees F (-4 degrees C) or 2 days at 70 degrees F (21 degrees C).

6. Availability & Cost

AVAILABILITY

A network of distributors carries Preprufe and Bituthene products for prompt delivery to project sites.

COST

For specific information, contact a local distributor or a Grace Construction Products representative.

7. Warranty

A 5 year material warranty for Preprufe and Bituthene membrane products is available from the manufacturer upon request.

8. Maintenance

Preprufe 300R and Preprufe 160R membranes will not require maintenance when installed in accordance with Grace's recommendations.

9. Technical Services

Support is provided by full-time, technically trained Grace field sales representatives and technical service personnel, backed by a central research and development staff.

10. Filing Systems

- Reed First Source
- Additional product information is available from the manufacturer.

W. R. Grace & Co.-Conn. hopes the information here will be helpful. It is based upon data and knowledge considered to be true and accurate and is offered for the users' consideration, investigation and verification, but we do not warrant the results to be obtained. Please read all statements, recommendations and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright. W. R. Grace & Co.-Conn., 62 Whittemore Avenue, Cambridge, MA 02140. In Canada, W. R. Grace & Co. Canada, Ltd., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

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