PROJECT NO.	170384501	CLIENT:	DATE:	Monday. Oct. 14, 2019
PROJECT:	805-825 Atlantic Avenue	550 Clinton Partners	WEATHER:	Sunny, 70s Wind: SE 5 mph
LOCATION:	805-825 Atlantic Avenue, Brooklyn, NY	Vanderbilt Partners LLC	TIME:	7:00am to 2:00 pm
CONTRACTOR:	AARCO Environmental Services, Inc.	(AARCO)	LANGAN REF	.: Tyler Goodnough
CONTRACTOR' Geoprobe 8140	S EQUIPMENT: LC Sonic rig	PRESENT AT SIT Tyler Goodnough - Tom Seickel - AAF	E: · Langan RCO	Day 10
OBSERVATIONS	, DISCUSSIONS, TEST RESULTS, ETC			
Langan was pi Technical Mem and 59). Obser	resent to implement the August 20, 2 orandum (Tech Memo) for the for BCP s ved activities were as follows:	019 Remedial Des site C224228 at 805	ign – In-Situ G -825 Atlantic Av	Groundwater Remediation venue (Block 2010, Lots 1
<u>Site Activities</u>				
 Drilling Activity: AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-03 from 45 to 80 feet below grade surface (bgs). Groundwater was observed at about 65 feet bgs. Petroleum-like odors, staining, and photoionization detector (PID) readings up to 2,270 parts per million (ppm) were observed from 67 to 75 feet bgs (max. PID reading at about 68 feet bgs). AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-08 from 0 to 65 feet bgs. Groundwater was not observed. Evidence of contamination was not observed. Injection well IP-03 was constructed with about 65 feet of 2-inch diameter schedule-40 polyvinyl chloride (PVC) riser piping connected to 15 feet of 2-inch diameter No. 2 slotted PVC well screen. The screen interval was set from 65 to 80 feet bgs. The annulus was backfilled with No. 1 sand from 64 to 80 feet bgs, bentonite from 63 to 64 feet bgs, and the remainder of the boring was backfilled via tremie pipe with a bentonite-grout slurry to grade. Sampling: None. 				

SITE OBSERVATION REPORT

CAMP Activities

Langan performed community air monitoring at one upwind and one downwind station. No volatile organic ٠ compound (VOC) or particulate concentrations exceeded the action levels established in the site Community Air Monitoring Plan (CAMP).

Particulate Monitoring (mg/m³)			Organic Vapor Monitoring (ppm)			
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind	
High Intervals "exceedances" (15min >1.5 + Upwind level)	NA	0	High Intervals "exceedances" (15min >5+Upwind level)	NA	0	
Maximum 15-min Average	0.038	0.028	Maximum 15-min Average	0.2	0.2	
Minimum 1-min Instant Reading	0.018	0.013	Minimum 1-min Instant Reading	0.0	0.0	
Maximum 1-min Instant Reading	0.068	0.033	Maximum 1-min Instant Reading	0.2	0.6	
mg/m ³ = micrograms per cu	ıbic meter		ppm = parts per million			

mg/m³ = micrograms per cubic meter

NA = Not Available

- Complete advancement and installation of IP-08 to 80 feet bgs. •
- Installation of injection well IP-08. •
- Begin advancing boring IP-04. •

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN



Langan PN: 170384501 Monday. Oct. 14, 2019 Page 4 of 4

SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



Photo 1: AARCO advancing boring IP-03 (facing southeast).



Photo 2: AARCO advancing boring IP-08 (facing south).

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN

PROJECT NO.	170384501	CLIENT:	DATE: Tuesday. Oct	t. 15, 2019
PROJECT:	805-825 Atlantic Avenue	550 Clinton Partners	WEATHER: Sunny, 60s Wind: SE 5 r	mph
LOCATION:	805-825 Atlantic Avenue, Brooklyn, NY	LLC/539 Vanderbilt Partners LLC	TIME: 7:00am to 2:0	00 pm
CONTRACTOR:	AARCO Environmental Services, Inc.	(AARCO)	LANGAN REP. : Tyler God	odnough
CONTRACTOR' Geoprobe 8140	S EQUIPMENT: LC Sonic rig	PRESENT AT SIT Tyler Goodnough - Tom Seickel - AAF	: Langan CO	Day 11
OBSERVATIONS	, DISCUSSIONS, TEST RESULTS, ETC	.:		
Langan was pr Technical Mem and 59). Obser	esent to implement the August 20, 2 orandum (Tech Memo) for the for BCP s ved activities were as follows:	019 Remedial Des ite C224228 at 805	gn – In-Situ Groundwater F 825 Atlantic Avenue (Block 2	Remediation 2010, Lots 1
<u>Site Activities</u>				
 Drilling Aa A G d P A None. 	ctivity: ARCO used a Geoprobe 8140 LC sonic r iroundwater was observed at about 65 fe etector (PID) readings up to 2,532 parts p ID reading at about 67 feet bgs). ARCO used a Geoprobe 8140 LC sonic r vas not observed. Evidence of contamina well IP-08 was constructed with about 68 og connected to 15 feet of 2-inch diameter o 80 feet bgs. The annulus was backfille gs, and the remainder of the boring was l	ig to advance boring eet bgs. Petroleum- per million (ppm) we ig to advance boring ation was not obser 5 feet of 2-inch dian er No. 2 slotted PVC ed with No. 1 sand f backfilled via tremie	IP-08 from 65 to 80 feet bgs ike odors, staining, and phot re observed from 66 to 75 fe IP-04 from 0 to 35 feet bgs. red. eter schedule-40 polyvinyl cl well screen. The screen intro om 64 to 80 feet bgs, benton pipe with a bentonite-grout s	s. oionization eet bgs (max. Groundwater hloride (PVC) erval was set nite from 63 to slurry to grade.

SITE OBSERVATION REPORT

CAMP Activities

Langan performed community air monitoring at one upwind and one downwind station. No volatile organic ٠ compound (VOC) or particulate concentrations exceeded the action levels established in the site Community Air Monitoring Plan (CAMP).

Particulate Monitoring (mg/m³)			Organic Vapor Monitoring (ppm)			
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind	
High Intervals "exceedances" (15min >1.5 + Upwind level)	NA	0	High Intervals "exceedances" (15min >5+Upwind level)	NA	0	
Maximum 15-min Average	0.025	0.029	Maximum 15-min Average	0.2	0.1	
Minimum 1-min Instant Reading	0.008	0.007	Minimum 1-min Instant Reading	0.0	0.0	
Maximum 1-min Instant Reading	0.035	0.029	Maximum 1-min Instant Reading	0.2	0.2	
$mg/m^3 = micrograms per cu$	ibic meter		ppm = parts per million			

mg/m³ = micrograms per cubic meter

NA = Not Available

- Complete advancement of IP-04 to 80 feet bgs. •
- Installation of injection well IP-04. •
- Begin advancing boring IP-05. •

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN



Langan PN: 170384501 Tuesday. Oct. 15, 2019 Page 4 of 4

SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



Photo 1: AARCO advancing boring IP-08 (facing south).



Photo 2: AARCO advancing boring IP-04 (facing west).

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN

PROJECT NO.	170384501	CLIENT:	DATE:	/Vednesday. Oct. 16, 2019
PBOJECT	805-825 Atlantic Avenue	550 Clinton	WEATHER (Cloudy, 60s
		Partners	\	Nind: SE 20 mph
LOCATION:	805-825 Atlantic Avenue, Brooklyn, NY	Vanderbilt Partners LLC	TIME:	7:00am to 2:00 pm
CONTRACTOR:	AARCO Environmental Services, Inc.	(AARCO)	LANGAN REP.	: Tyler Goodnough
CONTRACTOR'	S EQUIPMENT:	PRESENT AT SIT		Day 12
Geoprobe 8140	LC Sonic rig	Tyler Goodnough - Tom Seickel - AAF	Langan CO	
OBSERVATIONS	, DISCUSSIONS, TEST RESULTS, ETC	.:		
Langan was pi Technical Mem and 59). Obser	resent to implement the August 20, 2 orandum (Tech Memo) for the for BCP s ved activities were as follows:	019 Remedial Des ite C224228 at 805	ign – In-Situ Gr -825 Atlantic Ave	oundwater Remediation enue (Block 2010, Lots 1
Site Activities				
 and 59). Observed activities were as follows: Site Activities Drilling Activity: ARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-04 from 35 to 80 feet below grade surface (bgs). Groundwater was observed at about 65 feet bgs. Petroleum-like odors, staining, and photoionization detector (PID) readings up to 336 parts per million (ppm) were observed from 67 to 70 feet bgs (max. PID reading at about 67 feet bgs). AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-05 from 0 to 55 feet bgs. Groundwater was not observed. Evidence of contamination was not observed. Injection well IP-04 was constructed with about 65 feet of 2-inch diameter schedule-40 polyvinyl chloride (PVC) riser piping connected to 15 feet of 2-inch diameter No. 2 slotted PVC well screen. The screen interval was set from 65 to 80 feet bgs. The annulus was backfilled with No. 1 sand from 64 to 80 feet bgs, bentonite from 63 to 64 feet bgs, and the remainder of the boring was backfilled via tremie pipe with a bentonite-grout slurry to grade. Sampling: None. 				

SITE OBSERVATION REPORT

CAMP Activities

Langan performed community air monitoring at one upwind and one downwind station. No volatile organic ٠ compound (VOC) or particulate concentrations exceeded the action levels established in the site Community Air Monitoring Plan (CAMP).

Particulate Monitoring (mg/m³)			Organic Vapor Monitoring (ppm)			
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind	
High Intervals "exceedances" (15min >1.5 + Upwind level)	NA	0	High Intervals "exceedances" (15min >5+Upwind level)	NA	0	
Maximum 15-min Average	0.016	0.018	Maximum 15-min Average	0.3	0.0	
Minimum 1-min Instant Reading	0.009	0.009	Minimum 1-min Instant Reading	0.0	0.0	
Maximum 1-min Instant Reading	0.031	0.032	Maximum 1-min Instant Reading	0.4	0.0	
$mg/m^3 = micrograms per cu$	ıbic meter		ppm = parts per million			

mg/m³ = micrograms per cubic meter

NA = Not Available

- Complete advancement of IP-05 to 80 feet bgs. •
- Construct injection well IP-05. •
- Begin advancing boring IP-09. •

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN



Langan PN: 170384501 Wednesday. Oct. 16, 2019 Page 4 of 4

SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



Photo 1: AARCO installing injection well IP-04 (facing southeast).



Photo 2: AARCO advancing boring IP-05 (facing west).

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN

PROJECT NO.	170384501	CLIENT:	DATE:	Thursday. Oct. 17, 2019	
PROJECT:	805-825 Atlantic Avenue	550 Clinton Partners	WEATHER:	Cloudy, 50s Wind: E 25 mph	
LOCATION:	805-825 Atlantic Avenue, Brooklyn, NY	LLC/539 Vanderbilt Partners LLC	TIME:	7:00am to 2:00 pm	
CONTRACTOR:	AARCO Environmental Services, Inc.	(AARCO)	LANGAN REF	.: Tyler Goodnough	
CONTRACTOR' Geoprobe 8140	S EQUIPMENT: LC Sonic rig	PRESENT AT SIT Tyler Goodnough Tom Seickel - AAF	E: · Langan የCO	Day 13	
OBSERVATIONS	, DISCUSSIONS, TEST RESULTS, ETC	.:			
Langan was pi Technical Mem and 59). Obser	resent to implement the August 20, 2 orandum (Tech Memo) for the for BCP s ved activities were as follows:	019 Remedial Des site C224228 at 805	ign – In-Situ (-825 Atlantic A	Groundwater Remediation venue (Block 2010, Lots 1	
Site Activities					
 Drilling Activity: AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-05 from 55 to 80 feet below grade surface (bgs). Groundwater was observed at about 65 feet bgs. Petroleum-like odors, staining, and photoionization detector (PID) readings up to 560 parts per million (ppm) were observed from 67 to 70 feet bgs (max. PID reading at about 67 feet bgs). AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-09 from 0 to 45 feet bgs. Groundwater was not observed. Evidence of contamination was not observed. Injection well IP-05 was constructed with about 65 feet of 2-inch diameter schedule-40 polyvinyl chloride (PVC) riser piping connected to 15 feet of 2-inch diameter No. 2 slotted PVC well screen. The screen interval was set from 65 to 80 feet bgs. The annulus was backfilled with No. 1 sand from 64 to 80 feet bgs, bentonite from 63 to 64 feet bgs, and the remainder of the boring was backfilled via tremie pipe with a bentonite-grout slurry to grade. 					
Sampling:					
• None.					

SITE OBSERVATION REPORT

CAMP Activities

Langan performed community air monitoring at one upwind and one downwind station. No volatile organic ٠ compound (VOC) or particulate concentrations exceeded the action levels established in the site Community Air Monitoring Plan (CAMP).

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)			
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind	
High Intervals "exceedances" (15min >1.5 + Upwind level)	NA	0	High Intervals "exceedances" (15min >5+Upwind level)	NA	0	
Maximum 15-min Average	0.008	0.009	Maximum 15-min Average	0.2	0.1	
Minimum 1-min Instant Reading	0.002	0.002	Minimum 1-min Instant Reading	0.0	0.0	
Maximum 1-min Instant Reading	0.018	0.014	Maximum 1-min Instant Reading	0.2	0.1	
ma/m ³ = micrograms per cubic meter			ppm = parts per million			

mg/m³ = micrograms per cubic meter

NA = Not Available

- Complete advancement of boring IP-09 to 80 feet bgs. •
- Construct injection well IP-09. •
- Begin advancing boring IP-10. •

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN



Langan PN: 170384501 Thursday. Oct. 17, 2019 Page 4 of 4

SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



Photo 1: AARCO installing injection well IP-05 (facing west).



Photo 2: AARCO advancing boring IP-09 (facing northwest).

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN

PROJECT NO.	170384501	CLIENT:	DATE:	Friday. Oct. 18, 2019		
PROJECT:	805-825 Atlantic Avenue	550 Clinton Partners LLC/539	WEATHER:	Sunny, 60s Wind: E 15 mph		
LOCATION:	805-825 Atlantic Avenue, Brooklyn, NY	Vanderbilt Partners LLC	TIME:	7:00am to 2:00 pm		
CONTRACTOR	AARCO Environmental Services, Inc.	(AARCO)	LANGAN REF	P.: Tyler Goodnough		
CONTRACTOR Geoprobe 8140	'S EQUIPMENT: LC Sonic rig	PRESENT AT SIT Tyler Goodnough - Tom Seickel - AAF	E: - Langan {CO	Day 14		
OBSERVATION	6, DISCUSSIONS, TEST RESULTS, ETC					
Langan was p Technical Mem and 59). Obse	resent to implement the August 20, 2 norandum (Tech Memo) for the for BCP s rved activities were as follows:	019 Remedial Des site C224228 at 805	ign – In-Situ (-825 Atlantic A	Groundwater Remediation venue (Block 2010, Lots 1		
<u>Site Activities</u>						
 Drilling Activity: AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-09 from 45 to 80 feet below grade surface (bgs). Groundwater was observed at about 65 feet bgs. Petroleum-like odors, staining, and photoionization detector (PID) readings up to 1,872 parts per million (ppm) were observed from 67 to 75 feet bgs (max. PID reading at about 69 feet bgs). AARCO used a Geoprobe 8140 LC sonic rig to advance boring IP-10 from 0 to 25 feet bgs. Groundwater was not observed. Evidence of contamination was not observed. Injection well IP-09 was constructed with about 65 feet of 2-inch diameter schedule-40 polyvinyl chloride (PVC) riser piping connected to 15 feet of 2-inch diameter No. 2 slotted PVC well screen. The screen interval was set from 65 to 80 feet bgs. The annulus was backfilled with No. 1 sand from 64 to 80 feet bgs, bentonite from 63 to 64 feet bgs, and the remainder of the boring was backfilled via tremie pipe with a bentonite-grout slurry to grade. AARCO developed injection wells IP-01, IP-02, IP-03, IP-04, IP-05, IP-07, IP-08 and IP-12. Approximately 10 gallons of purge water was collected from each well into DOT-approved 55-gallon drums. 						
 AARCO constructed concrete well boxes around 8" steel drive-over covers on injection wells IP-01, IP-02, IP-03, IP-04, IP-07, IP-08, and IP-12. 						
 AARCO i IP-12. 	 AARCO installed 2" schedule 80 PVC injection fittings on wells IP-01, IP-02, IP-03, IP-06, IP-07, IP-08, IP-11, and IP-12. 					
Sampling:						
• None.						

SITE OBSERVATION REPORT

CAMP Activities

Langan performed community air monitoring at one upwind and one downwind station. No volatile organic • compound (VOC) or particulate concentrations exceeded the action levels established in the site Community Air Monitoring Plan (CAMP).

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)			
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind	
High Intervals "exceedances" (15min >1.5 + Upwind level)	NA	0	High Intervals "exceedances" (15min >5+Upwind level)	NA	0	
Maximum 15-min Average	0.013	0.023	Maximum 15-min Average	0.1	0.6	
Minimum 1-min Instant Reading	0.003	0.001	Minimum 1-min Instant Reading	0.0	0.0	
Maximum 1-min Instant Reading	0.039	0.027	Maximum 1-min Instant Reading	0.3	4.1	
ma/m ³ = micrograms per cubic meter			ppm = parts per million			

 $mg/m^3 = micrograms per cubic meter$

NA = Not Available

- Complete advancement of boring IP-10 to 80 feet bgs. •
- Construct injection well IP-10. •
- Begin advancing boring IP-13. •
- Develop remaining injection wells. •
- Install remaining well boxes and injection fittings.

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN



SITE OBSERVATION REPORT

SITE PHOTOGRAPHS



Photo 1: AARCO advancing boring IP-10 (facing west).



Photo 2: AARCO developing injection well IP-08 (facing west).

Cc:	K. Del Col, S. Knoop, M. Burke (Langan)	By:	Tyler Goodnough
			LANGAN