

Memo

Date: August 6, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 1, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Tuesday, August 1, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles and Pyramid continued constructing foundation forms within the hotel footprint while Siteworks resumed backfilling stormwater retention basin tie-ins and resumed trenching for sewer lines along the back of 125 Marbledale Road.

Additional aerosol containers and cosmetic debris (antiperspirant sprays and jars of antiperspirant creams - source material) were uncovered in the area along the eastern boundary with 125 Marbledale Road. These appear to be the same source materials that were found within the nearby Source Area 3 near the current sewer trenching activities. An FPM representative was on site on behalf of Revlon to gauge the extent of the newly discovered pockets of cosmetic debris. All source material was segregated from surrounding soils, stockpiled on top of plastic sheeting, screened with both the PID and FID, and covered with plastic to mitigate any possible odors.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling and foundation construction were conducted in the hotel footprint, while Siteworks trenched along the eastern boundary with 125 Marbledale Road.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil

was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels. Ambient readings with PID and FID in the area of the cosmetic debris was not elevated.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 2 additional CAMP stations were used to monitor the upwind and downwind area south and north of the site soils stockpiles; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. The water truck was instructed by HES to make periodic passes along the North-South access road, as needed, in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Tuesday, August 1, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/1/2017 CAMP monitoring event.

Date: 08/1/17

CAMP Data	Downwind (Sta. 3)	Upwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.25
Max. 15-min. Ave.	0.22	0.22	1.08	0.00	1.12
Overall Ave.	0.12	0.11	0.04	0.00	0.63
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0000	0.0000	0.0000	0.0225	0.0243
Max. 15-min. Ave.	0.0948	0.0468	0.0538	0.1021	0.0400
Overall Ave.	0.0317	0.0331	0.0155	0.0355	0.0299

An alert was triggered by the DustTrak in CAMP Station #2 at approximately 8:50, however, the particulate reading did not exceed 0.1 mg/m³ above the minimum ambient measurements for this day.

Date: 08/1/17

CAMP Data	Downwind (Sta. 6)	Upwind (Sta. 7)
VOCs (ppm)		
Min. 15-min. Ave.	0.00	0.00
Max. 15-min. Ave.	0.03	0.66
Overall Ave.	0.01	0.28
Dust (mg/m ³)		
Min. 15-min. Ave.	0.0103	0.0000
Max. 15-min. Ave.	0.0251	0.1778
Overall Ave.	0.0144	0.0347

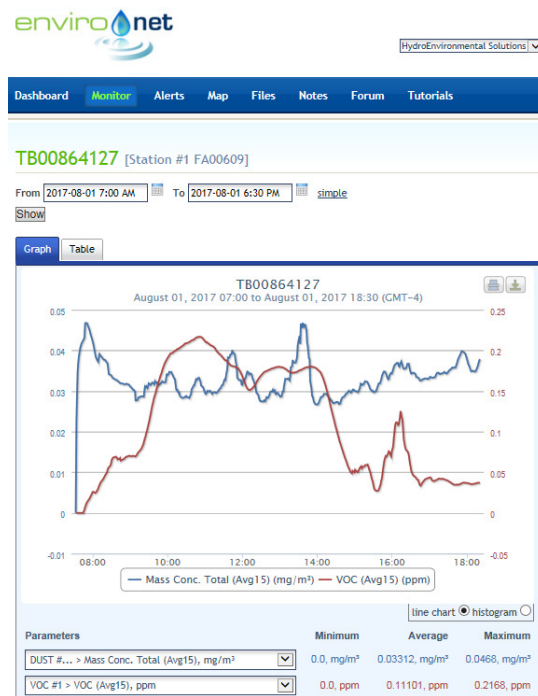
An alert was triggered at approximately 4:15 from the DustTrak within CAMP Station #7. The cause of the elevated dust readings was likely a delivery of NYSDEC-approved Dense Grade Aggregate (DGA) in the area of the CAMP station; neither HES nor HDR were in the northern area of the site at the time to observe the exceedance or dust conditions. Work was stopped after the delivery and dust measurements quickly returned to normal before the CAMP stations were broken down for the day. The data in the following table shows that a single 1-minute measurement caused the 15-min avg to spike

above the alert threshold. No dust was observed by either the HDR or HES on site representative.

Date: 08/1/17

Date Time	Total Concentration (1 min avg) (mg/m³)	Total Concentration (15 min avg) (mg/m³)
8/1/2017 16:11	0.043	0.0366
8/1/2017 16:12	1.77	0.1438
8/1/2017 16:13	0.025	0.1438
8/1/2017 16:14	0.056	0.1459
8/1/2017 16:15	0.025	0.1459
8/1/2017 16:16	0.024	0.1458
8/1/2017 16:17	0.026	0.1459
8/1/2017 16:18	0.026	0.1459
8/1/2017 16:19	0.028	0.1462
8/1/2017 16:20	0.025	0.1455
8/1/2017 16:21	0.501	0.1773
8/1/2017 16:22	0.03	0.1777
8/1/2017 16:23	0.026	0.1778
8/1/2017 16:24	0.029	0.1776
8/1/2017 16:25	0.026	0.1773
8/1/2017 16:26	0.025	0.1761
8/1/2017 16:27	0.026	0.0599
8/1/2017 16:28	0.025	0.0599

Environet CAMP Data Summary Graphs



8/1/2017 Station #1 (Downwind)



8/1/2017 Station #2 (Near Building)



8/1/2017 Station #3 (Upwind)



8/1/2017 Station #4 (Downwind)



8/1/2017 Station #5 (Morgan Street)



8/1/2017 Station #6 (Downwind)



8/1/2017 Station #7 (Upwind)

Memo

Date: August 6, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 2, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Wednesday, August 2, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks resumed backfilling stormwater retention basin tie-ins, constructed manholes/catch basins, and resumed trenching for sewer lines to the North-west of the hotel footprint.

Additional cosmetic debris (antiperspirant spray and creams - source material) was uncovered in the area to the north west of the hotel footprint along the western site boundary and segregated from site soils. The debris was treated exactly as the previous day: stockpiled on plastic sheeting, screened with the PID and FID, and covered to mitigate any possible odors. An FPM representative was on site on behalf of Revlon to observe the variety and extent of the cosmetic debris.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks trenched along the western boundary to the north of the hotel footprint.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument

measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 2 additional CAMP stations were used to monitor the upwind and downwind areas south and north of the site soils stockpiles; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. The water truck was instructed by HES to make periodic passes along the North-South access road, as needed, in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Wednesday, August 2, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/2/2017 CAMP monitoring event.

Date: 08/2/17

CAMP Data	Downwind (Sta. 3)	Upwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.14	0.21	1.33	0.00	2.10
Overall Ave.	0.03	0.12	0.09	0.00	1.31
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0283	0.0333	0.0126	0.0318	0.0281
Max. 15-min. Ave.	0.0769	0.0847	0.0753	0.1071	0.0876
Overall Ave.	0.0586	0.0598	0.0434	0.0681	0.0635

An alert was triggered by the DustTrak in CAMP Station #2 at approximately 11:15, however, the particulate reading did not exceed 0.1 mg/m³ above the minimum ambient measurements for this day.

Date: 08/2/17

CAMP Data	Upwind (Sta. 8)	Downwind (Sta. 9)
VOCs (ppm)		
Min. 15-min. Ave.	0.37	0.00
Max. 15-min. Ave.	3.26	0.09
Overall Ave.	2.72	0.01
Dust (mg/m ³)		
Min. 15-min. Ave.	0.0360	0.0160
Max. 15-min. Ave.	0.1160	0.0450
Overall Ave.	0.0731	0.0313

An alert was triggered from the DustTrak within CAMP Station #8 at startup before work commenced at the site. The cause was likely due to the exposure of the sensors to the humidity following the climate-controlled overnight storage. This rapid change in humidity can often cause a buildup of moisture on the sensors which may result in an artificially elevated reading. After the DustTrak was acclimated to the outdoor climate, readings returned to ambient levels.

It was noted that the PID at CAMP Station #4 was showing elevated readings (above 1 ppm) when it was initially started up before work commenced at the site. The cause was likely due to the rapid change in humidity conditions when the meter was removed from the climate-controlled overnight storage. The reading quickly dropped to ambient conditions after the meter acclimated to the humid conditions.

Environet CAMP Data Summary Graphs



8/2/2017 Station #1 (Downwind)



8/2/2017 Station #2 (Near Building)



8/2/2017 Station #3 (Upwind)



8/2/2017 Station #4 (Downwind)



8/2/2017 Station #5 (Morgan Street)



8/2/2017 Station #8 (Upwind)



8/2/2017 Station #9 (Downwind)

Memo

Date: August 6, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 3, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Thursday, August 3, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks hand-sifted stockpiled soils containing the cosmetic debris for off-site disposal (cosmetic debris being placed in drums and soils stockpiled for disposal off site) and resumed trenching for sewer lines along 125 Marbledale Road.

A NYSDEC representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks trenched along 125 Marbledale Road.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early

Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 2 additional CAMP stations to monitor the upwind and downwind area south and north of the site soils stockpiles; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. The water truck was instructed by HES to make periodic passes along the North-South access road, as needed, in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site NYSDEC representative.

A NYSDEC representative was on site on Thursday, August 3, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/3/2017 CAMP monitoring event.

Date: 08/3/17

CAMP Data	Downwind (Sta. 3)	Upwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.16	0.27	0.33	0.00	0.57
Overall Ave.	0.06	0.17	0.02	0.00	0.13
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0273	0.0313	0.0099	0.0346	0.0254
Max. 15-min. Ave.	0.0775	0.0704	0.0511	0.0947	0.0702
Overall Ave.	0.0490	0.0495	0.0277	0.0590	0.0457

Date: 08/3/17

CAMP Data	Upwind (Sta. 7)	Downwind (Sta. 9)
VOCs (ppm)		
Min. 15-min. Ave.	0.00	0.00
Max. 15-min. Ave.	0.31	0.09
Overall Ave.	0.16	0.00
Dust (mg/m ³)		
Min. 15-min. Ave.	0.0301	0.0227
Max. 15-min. Ave.	0.0718	0.0348
Overall Ave.	0.0457	0.0281

Environet CAMP Data Summary Graphs



8/3/2017 Station #1 (Downwind)



8/3/2017 Station #2 (Near Building)



8/3/2017 Station #3 (Upwind)



8/3/2017 Station #4 (Downwind)



8/3/2017 Station #5 (Morgan Street)



8/3/2017 Station #7 (Upwind)



8/3/2017 Station #9 (Downwind)

Memo

Date: August 6, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 4, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Friday, August 4, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks hand-sifted stockpiled soils containing the cosmetic debris for off-site disposal (cosmetic debris being placed in drums and soils stockpiled for disposal off site) and resumed trenching for sewer lines along 125 Marbledale Road.

Additionally, at the request of the NYSDEC, HES began the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks trenched along 125 Marbledale Road.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 1 additional CAMP station was used to monitor the downwind area north of the site soils stockpiles; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. Due to periodic showers, the water truck was not needed in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Friday, August 4, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/4/2017 CAMP monitoring event.

Date: 08/4/17

CAMP Data	Downwind (Sta. 3)	Upwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.01	0.38	1.74	0.00	3.88
Overall Ave.	0.00	0.25	0.12	0.00	1.03
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0041	0.0140	-0.0050	0.0140	0.0026
Max. 15-min. Ave.	0.0321	0.0587	0.0488	0.0575	0.0310
Overall Ave.	0.0160	0.0225	0.0100	0.02574	0.0149

Date: 08/4/17

CAMP Data	Downwind (Sta. 9)
VOCs (ppm)	
Min. 15-min. Ave.	0.00
Max. 15-min. Ave.	0.00
Overall Ave.	0.00
Dust (mg/m ³)	
Min. 15-min. Ave.	0.0090
Max. 15-min. Ave.	0.0271
Overall Ave.	0.0179

It was noted that the PID at CAMP Station #4 was showing elevated readings (above 1 ppm) when it was initially started up before work commenced at the site. The cause was likely due to the rapid change in humidity conditions when the meter was removed from the climate-controlled overnight storage. The readings quickly dropped to ambient conditions after the meter acclimated to the warm conditions.

It was also noted that the PID at CAMP Station #5 (off-site station) was showing elevated readings (above 3.5 ppm) when it was initially started up. The readings slowly dropped down to 0 ppm over 5 hours. There were no noticeable odors in the area when the station was set up. The PID was checked against the mobile PID used at the site and it was re-zeroed. It appears the PID used at this location requires maintenance. HES indicated they replace PID at this location.

Environet CAMP Data Summary Graphs



8/4/2017 Station #1 (Downwind)



8/4/2017 Station #2 (Near Building)



8/4/2017 Station #3 (Upwind)



8/4/2017 Station #4 (Downwind)



8/4/2017 Station #5 (Morgan Street)



8/4/2017 Station #9 (Downwind)

Memo

Date: August 15, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 7, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Monday, August 7, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks hand-sifted stockpiled soils containing the cosmetic debris for off-site disposal (cosmetic debris being placed in drums and soils stockpiled for disposal off site) and resumed backfilling related to sewer lines along the southwestern site boundary.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks backfilled along the southwestern site boundary and hand-sifted site soils for off-site disposal.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 1 additional CAMP station was used to monitor the downwind area north of the site soils stockpiles; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. Due to periodic showers, the water truck was not needed in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Monday, August 7, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/7/2017 CAMP monitoring event.

Date: 08/7/17

CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.06	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.26	17.14	0.56	2.11
Overall Ave.	0.00	0.18	0.58	0.07	0.85
Dust (mg/m ³) *					
Min. 15-min. Ave.	0.0190	0.0186	0.0092	0.0177	<no data>
Max. 15-min. Ave.	0.0370	0.0364	0.0211	0.0329	<no data>
Overall Ave.	0.0239	0.0233	0.0147	0.0222	<no data>

*Due to heavy rain beginning around 10:30, the DustTraks were turned off in order to avoid damaging the sensors. Similarly, the DustTrak for CAMP Station #5 was not activated as it had been raining at the time of setup.

Date: 08/7/17

CAMP Data	Downwind (Sta. 8)
VOCs (ppm)	
Min. 15-min. Ave.	0.23
Max. 15-min. Ave.	0.69
Overall Ave.	0.59
Dust (mg/m ³)	
Min. 15-min. Ave.	0.0187
Max. 15-min. Ave.	0.0381
Overall Ave.	0.0265

CAMP Station #4 triggered an alert for the PID VOC reading at approximately 10:15. At the time, no intrusive work was being conducted in the area and the PID was reading 0.0 when HES arrived at the CAMP Station minutes later. It was possible that the drill rig, which was being mobilized to a new micropile location, had triggered the alert as the exhaust passed by the CAMP station or it may have been a meter malfunction. As shown in the table below, the 1-minute data from the station shows a reading of 240 ppm at 10:14 with readings of 0 ppm immediately before and after this reading. The area was closely monitored with the hand-held PID for the next few minutes, and no readings above 0.0 ppm or odors were observed by either HES or the on site HDR representative.

TB00893068: Station #4 (Downwind Location)		
Date/Time	1-Minute Reading (ppm)	15-Minute Average (ppm)
8/7/2017 10:09	0	0
8/7/2017 10:10	0	0
8/7/2017 10:11	0	0
8/7/2017 10:12	0	0
8/7/2017 10:13	0	0
8/7/2017 10:14	239.961	15.9974
8/7/2017 10:15	0	15.9974
8/7/2017 10:16	0	15.9974
8/7/2017 10:17	0	15.9974
8/7/2017 10:18	0	15.9974
8/7/2017 10:19	0	15.9974
8/7/2017 10:20	0	15.9974
8/7/2017 10:21	0	15.9974
8/7/2017 10:23	0	17.1401
8/7/2017 10:24	0	17.1401
8/7/2017 10:25	0	17.1401
8/7/2017 10:26	0	17.1401
8/7/2017 10:27	0	17.1401
8/7/2017 10:29	0	0
8/7/2017 10:30	0	0
8/7/2017 10:31	0	0

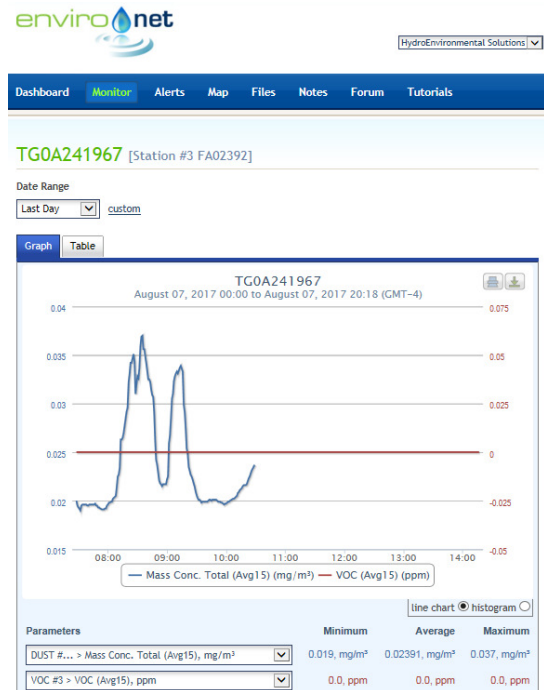
Environet CAMP Data Summary Graphs



8/7/2017 Station #1 (Downwind)



8/7/2017 Station #2 (Near Building)



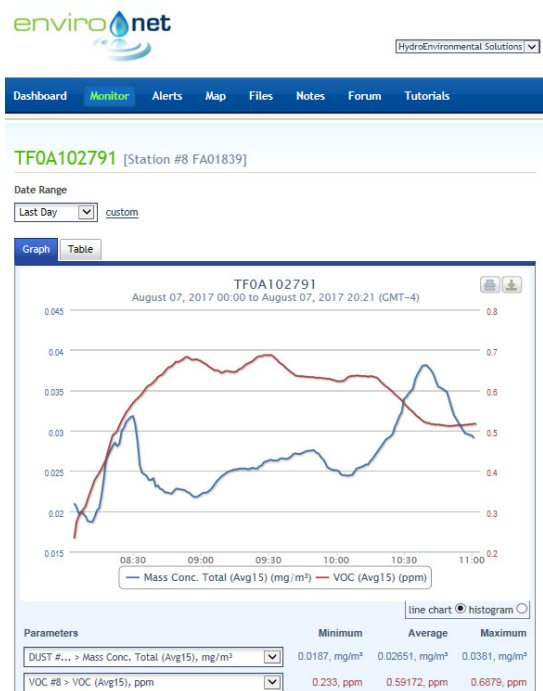
8/7/2017 Station #3 (Upwind)



8/7/2017 Station #4 (Downwind)



8/7/2017 Station #5 (Morgan Street)



8/7/2017 Station #8 (Downwind)

Memo

Date: August 15, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 8, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Tuesday, August 8, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks hand-sifted stockpiled soils containing the cosmetic debris for off-site disposal (cosmetic debris being placed in drums and soils stockpiled for disposal off site) and resumed backfilling related to sewer lines along the southeastern site boundary as well as the central Stormwater Retention Basin (SWRB).

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks backfilled along the southeastern site boundary and hand-sifted site soils for off-site disposal.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument

measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 2 additional CAMP stations were used to monitor the downwind area north and south of the site soils stockpiles being hand-sifted; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. Due to consistent rain the previous day and overnight, the water truck was not needed in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Tuesday, August 8, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/8/2017 CAMP monitoring event.

Date: 08/8/17

CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.21	20.82	0.00	0.00
Overall Ave.	0.00	0.16	1.03	0.00	0.00
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0067	0.0077	-0.0022	0.0023	0.0021
Max. 15-min. Ave.	0.0360	0.0387	0.0390	0.0400	0.0338
Overall Ave.	0.0107	0.0169	0.0109	0.0113	0.0092

Date: 08/8/17

CAMP Data	Downwind (Sta. 7)	Upwind (Sta. 8)
VOCs (ppm)		
Min. 15-min. Ave.	0.00	0.00
Max. 15-min. Ave.	0.24	0.66
Overall Ave.	0.15	0.27
Dust (mg/m ³)		
Min. 15-min. Ave.	0.0037	0.0025
Max. 15-min. Ave.	0.0400	0.0200
Overall Ave.	0.0091	0.0090

CAMP Station #4 triggered an alert for the PID VOC reading at 11:44 and again at 12:16. When the alerts were triggered, HES went over to the station and monitored the area with their handheld PID as well as the FID; all instrument recordings read 0.0. The CAMP Station #4 PID was recalibrated with both zero-gas and 100 ppm isobutylene. HES concluded that the exceedance was not caused by intrusive work, but the result of moisture being pulled into the PIDs pump. The area was closely monitored with the handheld PID for the next few minutes, and no additional exceedances or odors were observed by either HES or the on site HDR representative. As shown in the table below, the 1-minute data from the station shows elevated readings of 312 and 114 ppm at these times. The 1-minute readings immediately before and immediately after these elevated readings were 0 ppm indicating it was not a VOC release from site activities.

TB00893068: Station #4 (Downwind Location)		
Date/Time	1-Minute Reading (ppm)	15-Minute Average (ppm)
8/8/2017 11:38	0	0
8/8/2017 11:39	0	0
8/8/2017 11:40	0	0
8/8/2017 11:41	0	0
8/8/2017 11:42	0	0
8/8/2017 11:43	312.374	20.8249
8/8/2017 11:44	0	20.8249
8/8/2017 11:45	0	20.8249
8/8/2017 11:46	0	20.8249
8/8/2017 11:47	0	20.8249
8/8/2017 11:48	0	20.8249
8/8/2017 11:49	0	20.8249
8/8/2017 11:50	0	20.8249
8/8/2017 11:51	0	20.8249
8/8/2017 11:52	0	20.8249
8/8/2017 11:53	0	20.8249
8/8/2017 11:54	0	20.8249
8/8/2017 11:55	0	20.8249
8/8/2017 11:56	0	20.8249
8/8/2017 11:57	0	20.8249
8/8/2017 11:58	0	0
8/8/2017 11:59	0	0
8/8/2017 12:00	0	0

8/8/2017 12:15	0	0
8/8/2017 12:16	114.016	7.6011
8/8/2017 12:17	0	7.6011
8/8/2017 12:18	0	7.6011
8/8/2017 12:19	0	7.6011
8/8/2017 12:20	0	7.6011
8/8/2017 12:21	0	7.6011
8/8/2017 12:22	0	7.6011
8/8/2017 12:23	0	7.6011
8/8/2017 12:24	0	7.6011
8/8/2017 12:25	0	7.6011
8/8/2017 12:26	0	7.6011
8/8/2017 12:33	0.378	0.042
8/8/2017 12:34	0.004	0.0424

Environet CAMP Data Summary Graphs



8/8/2017 Station #1 (Downwind)



8/8/2017 Station #2 (Near Building)



8/8/2017 Station #3 (Upwind)



8/8/2017 Station #4 (Downwind)



8/8/2017 Station #5 (Morgan Street)



8/8/2017 Station #7 (Downwind)



8/8/2017 Station #8 (Upwind)

Memo

Date: August 15, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 9, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Wednesday, August 9, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks hand-sifted stockpiled soils containing the cosmetic debris for off-site disposal (cosmetic debris being placed in drums and soils stockpiled for disposal off site) and resumed backfilling related to sewer lines along the southeastern site boundary. Additionally, Siteworks sifted site soils through the mechanical sieve for re-use.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

A NYSDEC representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks backfilled along the southeastern site boundary and hand-sifted site soils for off-site disposal as well as mechanically sifted site soils for re-use.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument

measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 1 additional CAMP station was used to monitor the upwind area north of the site soils stockpiles being hand-sifted; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site NYSDEC representative.

A NYSDEC representative was on site on Wednesday, August 9, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/9/2017 CAMP monitoring event.

Date: 08/9/17

CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.06	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.31	0.88	0.23	0.97
Overall Ave.	0.00	0.19	0.11	0.02	0.34
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0106	0.0143	-0.0012	0.0149	0.0141
Max. 15-min. Ave.	0.1311	0.0549	0.0369	0.0655	0.0314
Overall Ave.	0.0634	0.0282	0.0220	0.0292	0.0220

CAMP Station #3 triggered an alert for the DustTrak (alert set at 100 mg/m³) at 1:44, 2:16, 2:50, and 3:22. This Station is the upwind station for the drilling operations in the hotel footprint area. SiteWorks was moving rocks in this area of the site during this interval and Station #3 was also in the vicinity of the north-south site road. It appears these elevated readings were caused by these activities. These elevated readings did not cause any CAMP concern exceedances (a 15-minute average of 0.150 mg/m³ or greater above background or upwind dust concentrations). On this day the wind was blowing towards the north end of the site and no dust was observed leaving the site.

Date: 08/9/17

CAMP Data	Downwind (Sta. 7)
VOCs (ppm)	
Min. 15-min. Ave.	0.00
Max. 15-min. Ave.	0.27
Overall Ave.	0.17
Dust (mg/m ³)	
Min. 15-min. Ave.	0.0111
Max. 15-min. Ave.	0.0394
Overall Ave.	0.0214

Environet CAMP Data Summary Graphs



8/9/2017 Station #1 (Downwind)



8/9/2017 Station #2 (Near Building)



8/9/2017 Station #3 (Upwind)

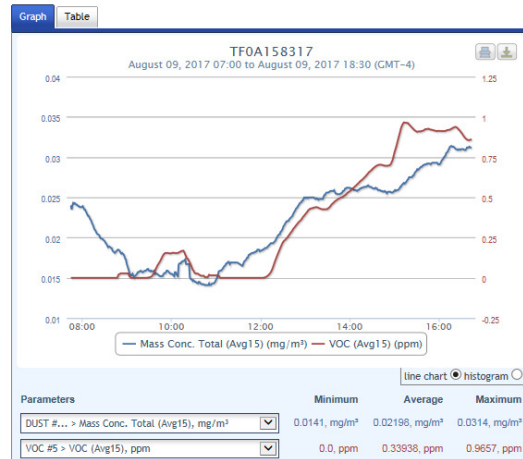


8/9/2017 Station #4 (Downwind)

TF0A158317 [Station #5 (FA02405)]

From 2017-08-09 7:00 AM To 2017-08-09 6:30 PM simple

Show

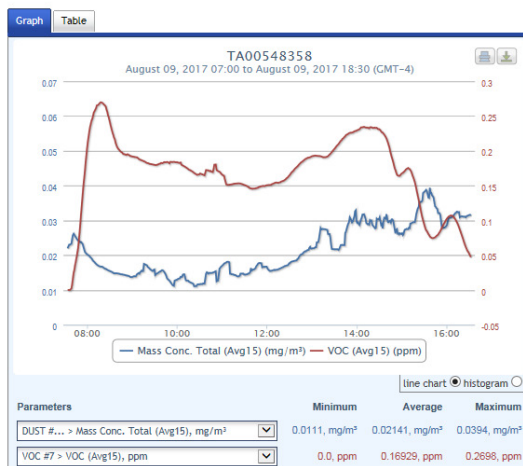


8/9/2017 Station #5 (Morgan Street)

TA00548358 [Station #7 FA00288]

From 2017-08-09 7:00 AM To 2017-08-09 6:30 PM simple

Show



8/9/2017 Station #7 (Downwind)

Memo

Date: August 15, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 10, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Thursday, August 10, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks resumed backfilling related to sewer lines along the southwestern site boundary.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

A NYSDEC representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks backfilled along the southwestern site boundary.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site NYSDEC representative.

A NYSDEC representative was on site on Thursday, August 10, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/10/2017 CAMP monitoring event.

Date: 08/10/17

CAMP Data	Downwind (Sta. 3)	Upwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.03	0.00	0.00	0.00
Max. 15-min. Ave.	0.07	0.30	19.20	0.02	0.23
Overall Ave.	0.00	0.21	0.51	0.00	0.11
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0225	0.0283	0.0062	0.0290	0.0224
Max. 15-min. Ave.	0.0835	0.0942	0.0410	0.1168	0.0472
Overall Ave.	0.0442	0.0422	0.0247	0.0523	0.0380

At approximately 11:00 and 2:00, the water truck made passes along the North-South access road in order to saturate site soils, and kicked up a dust cloud ahead of the truck in

the process; this caused alerts to be triggered by the DustTrak in CAMP Station #2. Neither instance exceeded the minimum ambient readings by greater than 0.1mg/m³ and particulate readings returned to normal levels immediately following the individual elevated readings.

At 8:20, the CAMP Station #4 PID recorded a VOC reading of 280ppm which caused a significantly elevated 15-minute average for the next 15 minutes. As shown in the table below, the significantly elevated reading was only recorded for a single measurement. HES made independent screening with the hand-held PID but readings did not exceed background levels and no odors were observed. Similarly, no intrusive work was being conducted within the immediate area at the time. It was determined that an excavator may have driven past the CAMP Station and a direct shot of exhaust was recorded by the PID.

Date and Time	VOC (ppm)	VOC (Avg15) (ppm)
8/10/2017 8:15	0.41	0.5987
8/10/2017 8:16	0.499	0.5989
8/10/2017 8:17	0.484	0.5909
8/10/2017 8:18	0.422	0.5723
8/10/2017 8:19	0.129	0.5378
8/10/2017 8:20	280.46	19.1975
8/10/2017 8:21	0.108	19.1618
8/10/2017 8:22	0	19.1084
8/10/2017 8:23	0	19.0599
8/10/2017 8:24	0	19.0151
8/10/2017 8:25	0	18.9986
8/10/2017 8:26	0.16	18.9625
8/10/2017 8:27	0.001	18.9343
8/10/2017 8:28	0	18.8739
8/10/2017 8:29	0	18.8449
8/10/2017 8:30	0	18.8175
8/10/2017 8:31	0	18.7843
8/10/2017 8:32	0	18.752
8/10/2017 8:33	0	18.7239
8/10/2017 8:34	0	18.7153
8/10/2017 8:35	0	0.0179
8/10/2017 8:36	0	0.0107
8/10/2017 8:38	0	0.0115
8/10/2017 8:39	0	0.0115
8/10/2017 8:40	0	0.0115

Environet CAMP Data Summary Graphs



8/10/2017 Station #1 (Downwind)



8/10/2017 Station #2 (Near Building)



8/10/2017 Station #3 (Upwind)



8/10/2017 Station #4 (Downwind)



8/10/2017 Station #5 (Morgan Street)

Memo

Date: August 18, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 11, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Friday, August 11, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks resumed backfilling related to sewer lines along the southwestern site boundary, sifted site soils through the mechanical sieve, and backfilled excavations. Additionally, site soils deemed unsuitable for reuse were loaded into trucks and taken off site for disposal.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks backfilled along the southwestern site boundary, sifted site soils, and conducted backfilling. Additionally, site soils deemed unsuitable for reuse were loaded into trucks and taken off site for disposal.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument

measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site with an additional 3 CAMP stations were used to monitor the upwind, downwind, and nearest site boundary in the northern area of the site.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road as well as immediately following any DustTrak alerts in order to maintain saturated soil conditions. At approximately 11:40, a cloud of dust was observed leaving the site near the southern gate by HES and the on-site HDR representative. The cloud was kicked up by a concrete truck leaving the site. As the air brakes were vented, dust was kicked up in the process. HES instructed Siteworks to water down the dry soils throughout the southern portion of the site.

An HDR representative was on site on Friday, August 11, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/11/2017 CAMP monitoring event.

Date: 08/11/17

CAMP Data	Downwind (Sta. 3)	Upwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.20	0.17	0.00	0.00
Overall Ave.	0.00	0.14	0.08	0.00	0.00
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0000	0.0152	0.0000	0.0170	0.0079
Max. 15-min. Ave.	0.0508	0.2413	0.0310	0.0463	0.0281
Overall Ave.	0.0293	0.0274	0.0073	0.0257	0.0170

At 11:55 the water truck made a pass along the North-South access road and within the southern area in order to saturate site soils. In the process, kicked up a dust cloud ahead of the truck which caused a brief but significant increase in particulate readings; this caused an alert to be triggered by the DustTrak in CAMP Station #1. Particulate readings returned to normal levels immediately following the initial wave of elevated readings (Table below).

Date and Time	1-Minute Readings (mg/m ³)	15-Minute Average (mg/m ³)
8/11/2017 11:50	0.021	0.0209
8/11/2017 11:51	0.022	0.0211
8/11/2017 11:52	0.02	0.0205
8/11/2017 11:53	2.94	0.2153
8/11/2017 11:54	0.395	0.2401
8/11/2017 11:55	0.028	0.2406
8/11/2017 11:56	0.025	0.2409
8/11/2017 11:57	0.023	0.2411
8/11/2017 11:58	0.021	0.2411
8/11/2017 11:59	0.02	0.241
8/11/2017 12:00	0.02	0.2411
8/11/2017 12:01	0.02	0.2411
8/11/2017 12:02	0.021	0.2411
8/11/2017 12:03	0.022	0.2413
8/11/2017 12:04	0.022	0.2413
8/11/2017 12:05	0.021	0.2413
8/11/2017 12:06	0.021	0.2413
8/11/2017 12:07	0.021	0.2413
8/11/2017 12:08	0.022	0.0468
8/11/2017 12:09	0.021	0.0219
8/11/2017 12:10	0.022	0.0215

Date: 08/11/17

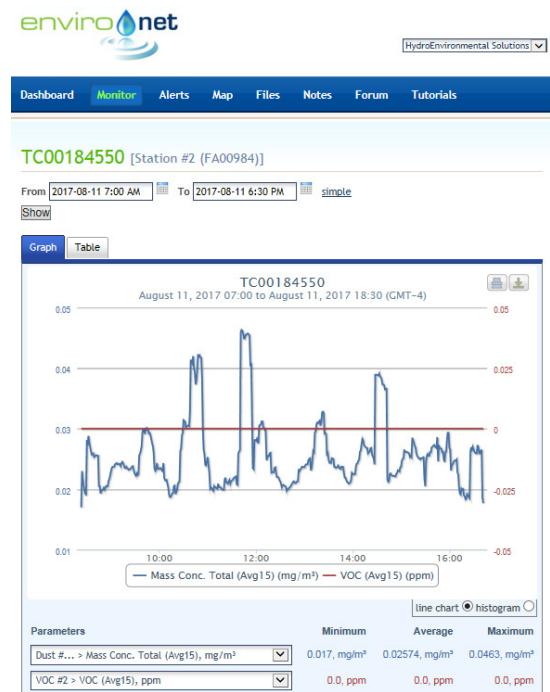
CAMP Data	Downwind (Sta. 6)	Upwind (Sta. 7)	Near Building (Sta. 8)
VOCs (ppm)			
Min. 15-min. Ave.	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.26	1.50
Overall Ave.	0.00	0.17	0.43
Dust (mg/m ³)			
Min. 15-min. Ave.	0.0073	0.0159	0.0000
Max. 15-min. Ave.	0.0368	0.0376	0.1198
Overall Ave.	0.0172	0.0216	0.0353

At approximately 1:00, an alert was triggered by the CAMP Station #8 DustTrak. The cause of this alert appeared to be a result of the water truck making a periodic pass along the North-South access road. Readings quickly returned to normal levels as site soils became fully saturated.

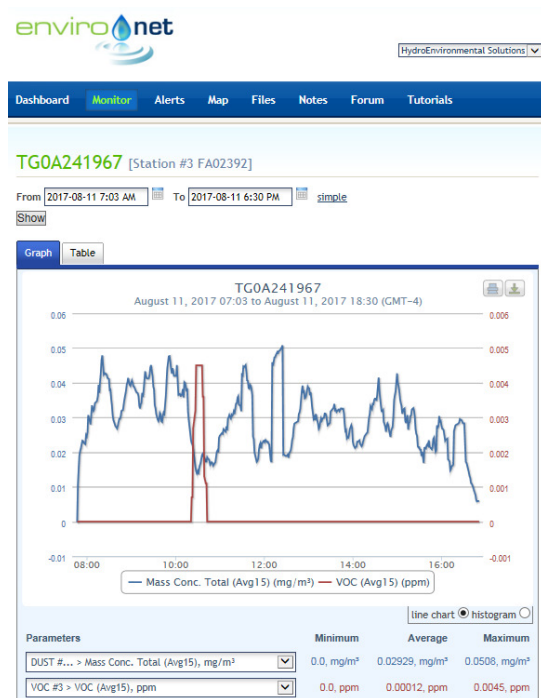
Environet CAMP Data Summary Graphs



8/11/2017 Station #1 (Downwind)



8/11/2017 Station #2 (Near Building)



8/11/2017 Station #3 (Upwind)



8/11/2017 Station #4 (Downwind)



8/11/2017 Station #5 (Morgan Street)



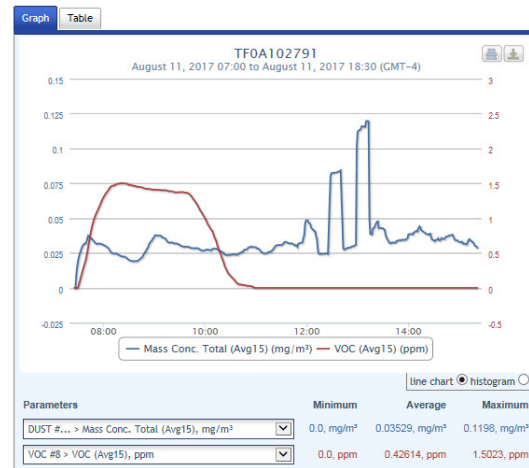
8/11/2017 Station #6 (Downwind)



8/11/2017 Station #7 (Upwind)

TF0A102791 [Station #8 FA01839]

From 2017-08-11 7:00 AM To 2017-08-11 6:30 PM simple
Show



8/11/2017 Station #8 (Nearest Boundary)

Memo

Date: August 22, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 14, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Monday, August 14, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks hauled out hand-sifted stockpiled soils containing the cosmetic debris for off-site disposal (cosmetic debris had been placed in drums and staged onsite while soil stockpiles were sent for off-site disposal) and began excavating to the west of the Hotel footprint in order to install sewer lines. Additionally, Siteworks sifted site soils through the mechanical sieve for re-use.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks hauled off soils deemed not suitable for reuse, excavated for sewer lines, and mechanically sifted site soils for re-use.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument

measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 1 additional CAMP station was used to monitor the downwind area north of the site soils stockpiles being sifted; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road in order to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Monday, August 14, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/14/2017 CAMP monitoring event.

Date: 08/14/17

CAMP Data	Upwind (Sta. 3)*	Downwind (Sta. 1)*	Downwind (Sta. 4)*	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.23	0.08	0.00	0.00
Overall Ave.	0.00	0.16	0.05	0.00	0.00
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0072	0.0145	0.0001	0.0125	0.0093
Max. 15-min. Ave.	0.0279	0.0648	0.0182	0.0300	0.0180
Overall Ave.	0.0164	0.0298	0.0066	0.0201	0.0130

* Station 4 was moved at 11:25 to account for a change in wind direction (South to North). Both Stations 1 and 3 were left in place and treated as opposite (Upwind vs Downwind) for the remainder of the day.

Date: 08/14/17

CAMP Data	Downwind (Sta. 7)
VOCs (ppm)	
Min. 15-min. Ave.	0.00
Max. 15-min. Ave.	1.92
Overall Ave.	0.42
Dust (mg/m ³)	
Min. 15-min. Ave.	0.0138
Max. 15-min. Ave.	0.0216
Overall Ave.	0.0175

Environet CAMP Data Summary Graphs



8/14/2017 Station #1 (Downwind)



8/14/2017 Station #2 (Near Building)



8/14/2017 Station #3 (Upwind)



8/14/2017 Station #4 (Downwind)



8/14/2017 Station #5 (Morgan Street)



8/14/2017 Station #8 (Downwind)

Memo

Date: August 22, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 15, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Tuesday, August 15, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks backfilled sewer trenches along the western site boundary.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

A NYSDEC representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks backfilled trenches created for the installation of sewer lines along the western site boundary.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road in order to maintain saturated soil conditions; afternoon showers deemed the water truck unnecessary. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site NYSDEC representative.

A NYSDEC representative was on site on Tuesday, August 15, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/15/2017 CAMP monitoring event.

Date: 08/15/17

CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.02
Max. 15-min. Ave.	0.02	0.25	0.00	0.52	0.34
Overall Ave.	0.00	0.07	0.00	0.26	0.21
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0274	0.0270	0.0127	0.0272	0.0273
Max. 15-min. Ave.	0.0748	0.0842	0.0750	0.0937	0.0965
Overall Ave.	0.0413	0.0391	0.0265	0.0431	0.0399

Environet CAMP Data Summary Graphs



8/15/2017 Station #1 (Downwind)



8/15/2017 Station #2 (Near Building)



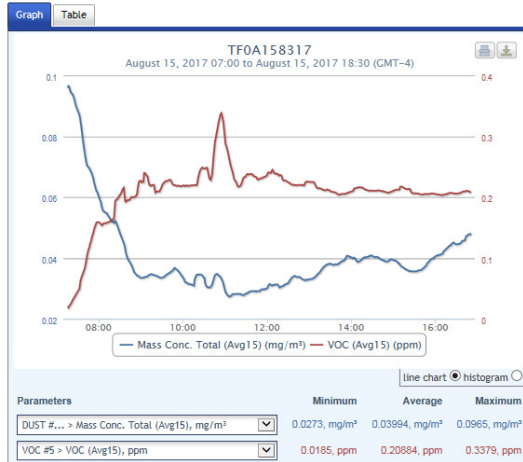
8/15/2017 Station #3 (Upwind)



8/15/2017 Station #4 (Downwind)

TF0A158317 [Station #5 (FA02405)]

From 2017-08-15 7:00 AM To 2017-08-15 6:30 PM [simple](#)
[Show](#)



8/15/2017 Station #5 (Morgan Street)

Memo

Date: August 22, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 16, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Wednesday, August 16, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks continued work related to the sewer trenches along the western site boundary as well as soil stockpiling conducted in the northern end of the site.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

A NYSDEC representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks conducted trenches for the installation of sewer lines along the western site boundary and soil stockpiling in the North.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and an additional 3 stations in the northern area of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road in order to maintain saturated soil conditions; overnight rain and moist ground deemed the water truck unnecessary. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site NYSDEC representative.

A NYSDEC representative was on site on Wednesday, August 16, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/16/2017 CAMP monitoring event.

Date: 08/16/17

CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 1)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.14	0.15	0.06	0.34
Overall Ave.	0.00	0.07	0.00	0.01	0.23
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0113	0.0209	-0.0004	0.0171	0.0145
Max. 15-min. Ave.	0.0790	0.0770	0.0760	0.0663	0.0633
Overall Ave.	0.0213	0.0298	0.0171	0.0237	0.0228

Date: 08/16/17

CAMP Data	Nearest Boundary (Sta. 6)	Downwind (Sta. 7)	Upwind (Sta. 8)
VOCs (ppm)			
Min. 15-min. Ave.	0.00	0.00	0.00
Max. 15-min. Ave.	0.00	0.41	0.00
Overall Ave.	0.00	0.29	0.00
Dust (mg/m ³)			
Min. 15-min. Ave.	0.0010	0.0123	0.0221
Max. 15-min. Ave.	0.0030	0.0330	0.0320
Overall Ave.	0.0019	0.0163	0.0262

Environet CAMP Data Summary Graphs



8/16/2017 Station #1 (Downwind)



8/16/2017 Station #2 (Near Building)



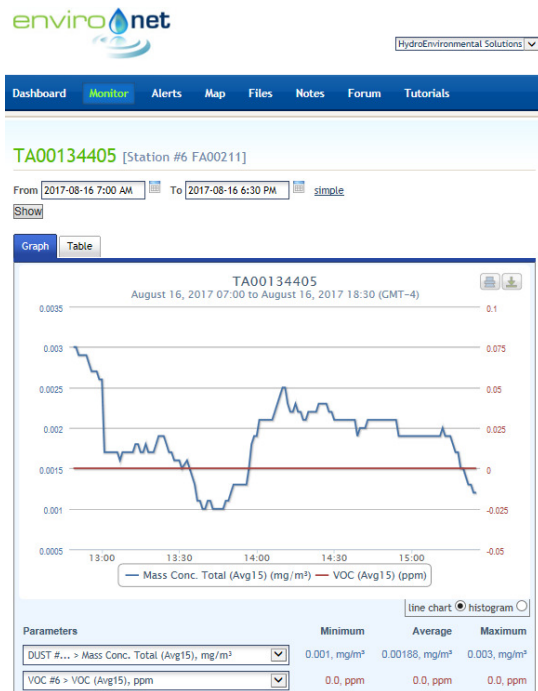
8/16/2017 Station #3 (Upwind)



8/16/2017 Station #4 (Downwind)



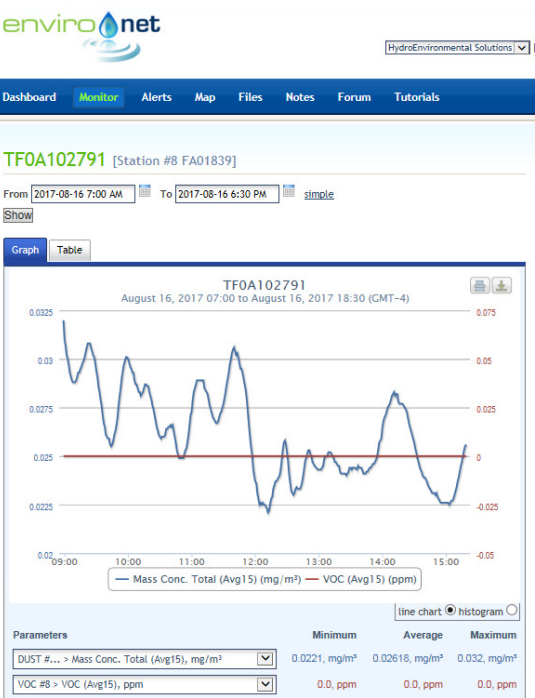
8/16/2017 Station #5 (Morgan Street)



8/16/2017 Station #6 (Near Site Boundary)



8/16/2017 Station #7 (Downwind)



8/16/2017 Station #8 (Upwind)

Memo

Date: August 22, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 17, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Thursday, August 17, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks began clearing soils and regrading in the northern end of the site.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks conducted regrading activities in the North.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or

property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 2 additional stations in the northern area of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. HES directed Siteworks to make periodic passes with the water truck as needed along the North-South access road in order to maintain saturated soil conditions; overnight rain and moist ground deemed the water truck unnecessary. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Thursday, August 17, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/17/2017 CAMP monitoring event.

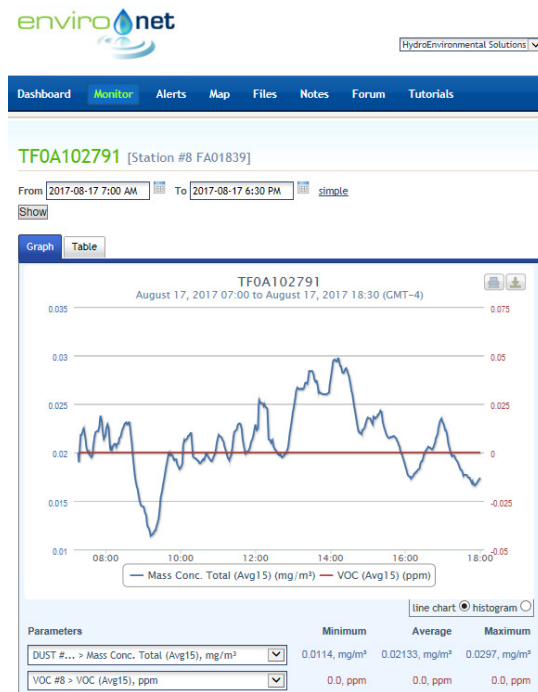
Date: 08/17/17

CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 8)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.05
Max. 15-min. Ave.	0.00	0.00	0.00	1.38	0.25
Overall Ave.	0.00	0.00	0.00	0.13	0.20
Dust (mg/m ³)					
Min. 15-min. Ave.	0.0058	0.0114	-0.0039	0.0161	0.0095
Max. 15-min. Ave.	0.0493	0.0297	0.0247	0.0473	0.0228
Overall Ave.	0.0153	0.0213	0.0051	0.0246	0.0162

Date: 08/17/17

CAMP Data	Upwind (Sta. 7)	Downwind (Sta. 9)
VOCs (ppm)		
Min. 15-min. Ave.	0.00	0.00
Max. 15-min. Ave.	0.17	0.05
Overall Ave.	0.11	0.00
Dust (mg/m ³)		
Min. 15-min. Ave.	0.0121	0.0083
Max. 15-min. Ave.	0.0631	0.0935
Overall Ave.	0.0204	0.0163

Environet CAMP Data Summary Graphs



8/17/2017 Station #8 (Downwind)



8/17/2017 Station #2 (Near Building)



8/17/2017 Station #3 (Upwind)



8/17/2017 Station #4 (Downwind)



8/17/2017 Station #5 (Morgan Street)



8/17/2017 Station #7 (Upwind)



8/17/2017 Station #9 (Downwind)

Memo

Date: August 22, 2017

Project: BCP Site # C360143

To: Village of Tuckahoe

From: Brendan Phillips, HDR

Subject: Summary of CAMP Results During Site Work
109-125 Marbledale Road
Tuckahoe, New York
August 18, 2017

This memorandum was prepared by HDR to provide a review of the Community Air Monitoring Plan (CAMP) implementation during the site activities on Friday, August 18, 2017. Environmental Bulkheading Corp. (EBC) continued to drill micropiles within the hotel footprint while Siteworks began clearing soils and regrading in the northern end of the site.

Additionally, at the request of the NYSDEC, HES continued the process of pulling soil vapor from select vapor points at the site with a temporary portable vapor extraction system and treating the vapors with a carbon filtration system. Screening with the PID and FID was conducted at both the influent and effluent points along vapor extraction system.

An HDR representative was on site to observe site activities on this day. It was confirmed that the CAMP monitoring stations were appropriately re-positioned as needed during the course of the day to account for the above-described work and locations of intrusive work on site as well as any changing wind conditions.

DATA EVALUATION AND INTERPRETATIONS

In accordance with the RAWP, a CAMP is required during site activities involving soil disturbance activities. As noted previously, micropile drilling was conducted in the hotel footprint, while Siteworks conducted regrading activities in the North.

HES conducted the CAMP monitoring around the southern portion of the site where intrusive work was being conducted. Hand-held meters (PID, FID and 4-Gas meter) were also used to monitor air in the areas where intrusive activities were occurring / where soil was being disturbed. Additionally, ambient air measurements were made throughout the site with the PID and FID during the monitoring event. All recorded instrument measurements for these ambient air samples were below the CAMP action levels and were not significantly elevated above ambient air background levels.

In accordance with the RAWP, a minimum of four (4) monitoring stations (upwind, two downwind, and a location between the work area and the nearest occupied building or

property boundary) were to be set up around the site work activities to collect particulate (Dust) and volatile organic compound (VOC) measurements. In addition, HES had an off-site CAMP monitoring station east of the site between the site and the Waverly Early Childhood Center. The off-site CAMP station was situated on Morgan Street, near the intersection of Hall Ave. for this monitoring event. On this day, 1 set of CAMP monitoring stations was used to monitor the site activities conducted within the southern portion of the site and 1 additional station in the northern area of the site; all stations were monitored frequently throughout the day.

Details of the CAMP monitoring procedures and the monitoring equipment used to conduct the CAMP are included in previous data summary memoranda.

Water and vapor/odor suppressant foam are available on-site in the event there is a release of dust or VOCs from site activities. Foam was not required for odors or vapors emanating from the work areas. Due to rain, the water truck was not necessary to maintain saturated soil conditions. There was no visible dust leaving the site during this monitoring event as observed by HES or the on-site HDR representative.

An HDR representative was on site on Friday, August 18, 2017 to observe the site activities throughout the site.

For this day's activities, none of the dust or VOC concentrations approached the action levels requiring a work stoppage or corrective measures due to site activities.

Below is a summary table for the 08/18/2017 CAMP monitoring event.

Date: 08/18/17

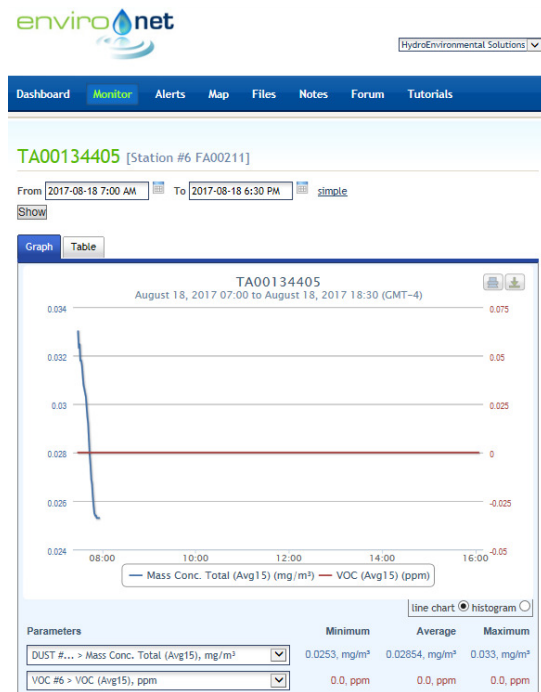
CAMP Data	Upwind (Sta. 3)	Downwind (Sta. 6)	Downwind (Sta. 4)	Buildings (Sta. 2)	Morgan Str. (Sta. 5)
VOCs (ppm)					
Min. 15-min. Ave.	0.00	0.00	0.00	0.00	0.00
Max. 15-min. Ave.	1.53	0.00	0.10	4.44	0.41
Overall Ave.	0.69	0.00	0.01	0.38	0.04
Dust (mg/m ³)*					
Min. 15-min. Ave.	0.0311	0.0253	0.0290	0.0396	<no data>
Max. 15-min. Ave.	0.0360	0.0330	0.0437	0.0463	<no data>
Overall Ave.	0.0327	0.0285	0.0366	0.0428	<no data>

*Due to heavy rain, the DustTraks were turned off at approximately 8:00; a buildup of water within the moisture catch basin can damage the machine which must be sent back to the manufacturer to be repaired.

Date: 08/18/17

CAMP Data	Downwind (Sta. 8)
VOCs (ppm)	
Min. 15-min. Ave.	0.00
Max. 15-min. Ave.	0.05
Overall Ave.	0.00
Dust (mg/m ³)*	
Min. 15-min. Ave.	<no data>
Max. 15-min. Ave.	<no data>
Overall Ave.	<no data>

Environet CAMP Data Summary Graphs



8/18/2017 Station #6 (Downwind)



8/18/2017 Station #2 (Near Building)



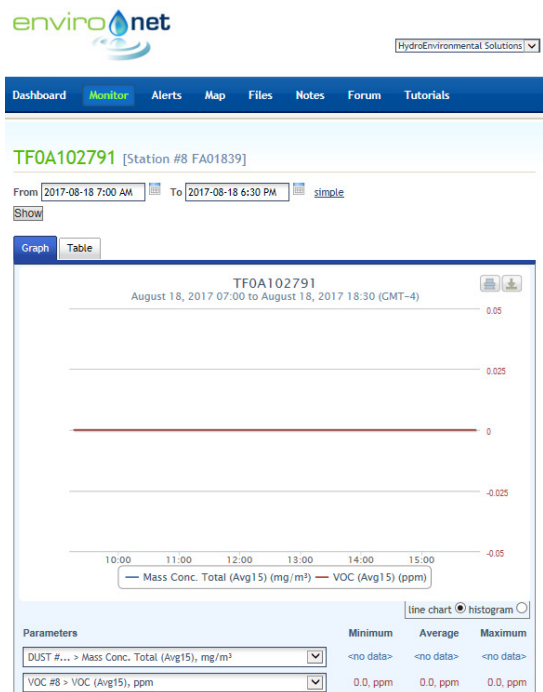
8/18/2017 Station #3 (Upwind)



8/18/2017 Station #4 (Downwind)



8/18/2017 Station #5 (Morgan Street)



8/18/2017 Station #8 (Downwind)