

**FONF EXPANSION/SABRE PARK BCP**  
**TOWN OF NIAGARA, NEW YORK**

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**Periodic Review Report**

**Certification Period: 2019**

**NYSDEC BCP Number: C932162**

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## **1.0 INTRODUCTION**

### **1.1 General**

This Periodic Review Report was prepared in accordance with the New York State Department of Environmental Conservation (“NYSDEC” or the “Department”) approved 15 November 2014 Site Management Plan (SMP) and Section 6.3 of NYSDEC Division of Environmental Remediation (DER)-10. The certification period is January 1, 2019 through December 31, 2019 (herein referred to as the “Certification Period”). A periodic review of all institutional controls and engineering controls (IC/ECs) and a site evaluation are required for fulfillment of the remedial action at the Fashion Outlet of Niagara Falls (FONF) Expansion/Sabre Park (hereafter referred to as the “Site”) under the Brownfield Cleanup Program (BCP), which is administered by the NYSDEC. The Site was accepted into the BCP in accordance with Brownfield Cleanup Agreement (BCA) Index #C932162-06-13, Site #C932162, executed on June 18, 2013.

In October 2014, the project completed construction and fulfilled its requirements under the BCP. As part of the environmental remediation for the project, ECs were implemented to prevent human exposure to subsurface impacts left in-place. Those controls included a site-wide cap consisting of asphalt paved parking, concrete structures and sidewalks, clay-lined stormwater ponds, and clean cover in landscaped areas. Locations and details of the engineering controls are provided in Figure 2. A certificate of completion was issued by the NYSDEC on 19 December 2014.

### **1.2 Site Description**

The Site is located in the Town of Niagara, New York and includes the ±34-acres former Sabre Park Mobile Home Community located at 1705 Factory Outlet Boulevard (a/k/a Fashion Outlet Boulevard, a/k/a Third Avenue Extension, a/k/a Connection Boulevard - Assessor’s Parcel Number 160.08-1-2, 160.08-1-6 and 160.08-1-7), an approximate 10.35-acre parcel located on the southern portion of the larger approximately ±41.3-acre FONF property located at 1900 Military Road, (specifically, a portion of Assessor’s Parcel Numbers 145.20-1-15), and a smaller parcel encompassing approximately 3.45-acres on the western side of the Site located at 1755 Factory Outlet Boulevard (a/k/a Fashion Outlet Boulevard, a/k/a Third Avenue Extension, a/k/a Connection Boulevard - Assessor’s Parcel Number 160.08-1-1). The total footprint of the Site subject to the BCP is approximately 47.8-acres. The Site is bounded by Factory Outlet Boulevard/Route 190 to the west/northwest, the existing Fashion Outlets of Niagara Falls to the north/northeast, the Benderson Development shopping plaza to the east, and National Grid power lines to the south. A Site Location Map is provided as Figure 1.

### **1.3 Summary of Remedial Investigation**

Langan completed a Remedial Investigation (RI) of the site during July 2013 to characterize the nature and extent of contamination at the Site. The results of the RI are described in detail in the Remedial Investigation Report, dated 16 August 2013, prepared by Langan. The remedial investigation determined that the primary contaminants of concern include volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and chromium. These contaminants were detected in soil, groundwater, and soil vapor. The following is a summary of the RI findings:

#### Soil

PAHs were detected in 16 of 295 soil and fill samples at concentrations exceeding the commercial soil cleanup objectives (SCOs). PCBs were detected in 5 samples at concentrations (1.07 to 23.0 ppm) exceeding the commercial SCO of 1 ppm. Total chromium was detected in 20 samples at concentrations (1,500 to 6,560 ppm) exceeding the commercial SCO of 1,500 ppm, while hexavalent chromium exceeded the commercial SCO of 400 ppm in 2 samples (486 and 506 ppm). Slag was observed in the historic fill at many locations throughout the site, but did not exhibit radioactivity during the RI; however, approximately 258.5 tons of low level radioactive waste (LLRW) was encountered along the northeast corner of the Site during remedial excavation activities.

#### Groundwater

Total chromium was detected in four groundwater samples at concentrations (884 to 1,260 ppb) exceeding the groundwater standard of 50 ppb, while hexavalent chromium was detected in four samples at concentrations (818 to 1,230 ppb) exceeding the groundwater standard of 50 ppb. Chlorinated solvents were detected in one groundwater sample at concentrations exceeding groundwater standards. These compounds included (cis) 1,2-dichloroethylene (59 ppb; standard 5 ppb), trichloroethylene (19 ppb; standard 5 ppb) and vinyl chloride (13 ppb; standard 2 ppb). Groundwater pH ranged from 6.29 to 12.2. Contaminated overburden groundwater is not migrating from the site.

#### Soil Vapor

Chlorinated and petroleum related VOCs were detected in all three of the soil gas samples collected at the Site. VOCs detected in ambient air samples were generally lower than the soil gas samples.

## 1.4 Summary of Remedial Action

The Site was remediated in accordance with the remedy approved by the NYSDEC in the 9 October 2013 Interim Remedial Measures Work Plan (IRMWP) and 30 April 2014 Remedial Action Work Plan (RAWP). Based on the results of Langan's July 2013 RI, fill throughout the entire Site contained metals, VOCs, SVOCs, PCBs, pesticides, and herbicides at concentrations exceeding unrestricted residential SCOs, and the anticipated costs associated with additional excavation required to achieve a Track 1 cleanup were deemed to be uneconomical and unreasonable. Therefore, a Track 4 remedy was selected for the Site, and residual contaminated soil and water was left in place. Site-specific SCOs were developed for soil exceeding 6NYCRR Part 371 hazardous criteria and PCB-impacted soils that exceed 1 ppm at the surface and 10 ppm in the subsurface. A detailed account of the remedy is provided in the December 2014 Final Engineering Report (FER), and is summarized as follows:

- Excavation and off-site disposal of 164,627.17 tons of construction-related spoils exceeding the restricted commercial SCOs;
- Excavation and off-site disposal of two hot spot areas, including PCB-impacted soils with concentrations exceeding 10 mg/kg (716.6 tons), and chromium impacted soils with concentrations exceeding the RCRA Characteristically Hazardous Waste Criteria of 5 mg/L (682.1 tons);
- Excavation and disposal of approximately 258.5 tons of low-level radioactive waste (LLRW) encountered during installation of building utilities and interior piers in the northern portion of the FONF mall building pad.
- Transportation and off-site disposal of soil/fill material at permitted facilities in accordance with the RAWP, disposal facility requirements, and applicable laws and regulations for handling, transport, and disposal.
- Collection and permitted discharge of approximately 10,698,200 gallons of perched, contaminated groundwater and accumulated stormwater exceeding Part 703 GA criteria to the Niagara Falls Water Board (NFWB) wastewater treatment facility.
- Installation of vapor barriers with active sub-slab depressurization (SSD) systems beneath the mall expansion building and occupied office building of the relocated Secure Storage facility;
- Construction of a site-wide soil cap/cover system consisting of the following to prevent human exposure to remaining contaminated soil/fill remaining at the Site:
  - Placement of a minimum of 1 foot of certified clean soils meeting the Allowable Constituent Levels for Imported Fill or Soil for Commercial Uses (Appendix 5 of DER 10) over all landscaped areas;

- Placement of a combination of a minimum of 6 inches of certified clean clay and a minimum of 1 foot of certified clean soils meeting the Allowable Constituent Levels for Imported Fill or Soil for Commercial Uses (Appendix 5 of DER 10) at the stormwater detention ponds.
- Pavement with varying depths of subbase (4 inches to 12 inches) in the parking lots and drive aisles, and concrete building foundations under all buildings;
- Backfilling of remedial excavation areas to development grade with clean virgin quarried stone or clean fill meeting the requirements of NYSDEC Division of Environmental Remediation (DER) Draft DER-10 – Technical Guidance for Site Investigation and Remediation, Section 5.4, or virgin, native imported crushed stone.
- Execution and recording of Environmental Easements that cover the entire extent of the BCP property to restrict land use and manage the engineering controls to prevent exposure to contamination remaining at the Site
- Development and implementation of a SMP for long-term management of residual contamination as required by the Environmental Easements.

Remedial activities were completed at the Site on 12 November 2014, and a certificate of completion was issued by the NYSDEC on 19 December 2014.

## **1.5 Previously Completed Intrusive Activities Prior to 2019**

From 2015 to 2018, intrusive activities were performed in accordance with the NYSDEC-approved SMP and Excavation Work Plan (EWP). Five notifications of future intrusive activities reports were provided to NYSDEC at least 15 days prior to the start of any activity that was anticipated to encounter remaining contamination. A detailed account of the intrusive activities is provided in the Periodic Review Reports for the Certification Periods 2015 through 2017, and 2018. A listing and brief summary of the previously completed intrusive activities is provided in the following sections.

### 1.5.1 Storm Sewer Force Main, Drive Aisle, and Directional Sign Installation

The storm sewer system installed as part of the site-wide construction activities completed in December 2014 was installed as a temporary measure. As such, additional storm sewer excavation and installation activities were required to install a storm sewer force main and pump house along the northeastern portion of the Site. The activities related to the Storm Sewer Force Main, Drive Aisle, and Directional Sign Installation were completed between 19 May and 3 July 2015.

### 1.5.2 Pond 1A Interim Corrective Measures

A failure of the composite cap/cover system occurred at storm water detention Pond 1A in April 2015. Preventative measures were implemented in accordance with the SMP that successfully protected human health and the environment prior to the approval and implementation of a Corrective Measures Plan (CMP), which is discussed in Section 1.5.5. The Interim Corrective Measures activities were completed between 9 April 2015 and 26 July 2016.

### 1.5.3 Site-Wide Storm Sewer Redesign

Due to the removal of stormwater detention Pond 1A from the Site's stormwater management system, modification of the stormwater management system was necessary in order to compensate for the storage volume lost with the elimination of Pond 1A. The Site-Wide Storm Sewer Redesign activities were completed between 1 June and 28 September 2017.

### 1.5.4 Secure Storage Expansion

Panamerican Environmental, Inc. (Panamerican) of Buffalo, New York submitted a Secure Storage – SMP Excavation Work Plan Notification Letter (dated 31 August 2017) and a SMP Excavation Work Plan (dated 6 September 2017) to the NYSDEC to outline intrusive activities associated with the construction of two storage units and associated utilities at the Secure Storage facility located on the southwestern portion of the Site. Construction and remedial activities were completed by Panamerican at the Site between 20 September and 10 November 2017.

### 1.5.5 Pond 1A Final Corrective Measures Plan Implementation

Upon discovery of the EC breach in April 2015, Pond 1A remained shut off from the Site's Stormwater system discharges until the remedy failure investigation and final corrective measures could be implemented. Implementation of the CMP was completed from 26 July through 19 August 2016. Additionally, implementation of storm-water pollution prevention measures were completed during the corrective measures in compliance with applicable laws and regulations. The corrective action status for the Site was closed by NYSDEC on 7 August 2017.

### 1.5.6 SSD System Modification

Continuing power surges at the Site had resulted in the need to repair or replace the vacuum blower equipment at the mall expansion active SSD system at an unreasonable frequency. Langan submitted a SSD System Modification Work Plan to NYSDEC on 22 May 2018 to outline

a proposed monitoring plan to be implemented with the aim of converting the active SSD system into a passive system. The SSD System Modification Work Plan was approved by the NYSDEC through email correspondence on 29 May 2018. All sampling and modification activities were completed in accordance with the NYSDEC-approved SMP, dated 15 November 2014. On 26 June 2018 Langan completed sub-slab soil vapor sampling from 12 of the 14 existing permanent sub-slab monitoring points installed during construction of the mall expansion building. Following receipt of the laboratory analytical results, Langan submitted a Summary of Sub-Slab Soil Vapor Sampling Report to the NYSDEC on 17 August 2018. The report summarized the findings of the 26 June 2018 sampling event and recommended the conversion of the FONF mall expansion active SSD system to a passive SSD system. The Summary of Sub-Slab Soil Vapor Sampling Report was approved by the NYSDEC through email correspondence on 29 October 2018. Following NYSDEC approval, Langan commenced conversion of the active SSD system at the FONF mall expansion building to a passive (wind-driven exhaust fan) system on 27 December 2018. Inspection of the passive SSD system components following installation showed they are operating pursuant to the manufactures specifications. As of the date of this report, the new passive SSD system components have not had any issues and continue to operate per their design.

### **1.6 Effectiveness of the Remedial Program**

The remedial program was designed to both eliminate and mitigate environmental and potential human health exposure to adverse environmental conditions remaining in soil, groundwater, and soil vapor underlying the Site. The IC/ECs, detailed in Section 2.1, for the Certification Period continue to meet the remedial objectives for the site.

### **1.7 Compliance**

All IC/ECs have remained in place at the Site for the Certification Period and remain effective. A further discussion of the remedy compliance is included in Section 5.2.

### **1.8 Recommendations**

As agreed to by the Department during a phone call on 30 May 2019, Langan will submit a revised SMP to document revised testing and monitoring requirements for the Site as a result of the modifications to the SSD system at the FONF mall expansion building and the modifications to the stormwater system across the Site.

## **2.0 IC/EC PLAN COMPLIANCE REPORT**

### **2.1 IC/EC Components**

A summary of the IC/ECs implemented at the Site per the RAWP, FER, and SMP are as follows:

- Maintenance of an engineered cap/cover system to prevent human exposure to residual contaminated soils remaining under the Site. The cap/cover systems consist of the following:
  - Parking and private road areas (minimum 3-inch thick asphalt cap);
  - Building slabs (4-inch concrete cap);
  - Sidewalks (5-inch concrete cap);
  - Landscaped areas (minimum 1-foot thick clean imported topsoil cover); and,
  - Detention ponds (a combination of a minimum 6-inch thick clay cap and 1-foot thick clean imported topsoil cover).
- Installation of two active SSD systems beneath the two fulltime occupied buildings of the Site (the FONF mall expansion building and the Secure Storage office building). As detailed in Section 1.5.6, the former active SSD system beneath the FONF mall expansion building was converted to a passive system in 2018 with approval from NYSDEC.
- Execution of environmental easements with ICs for the implementation, maintenance, and monitoring the ECs at the Site; prevent future exposure to residual contamination by controlling disturbances of the subsurface contamination at the Site; and, limit the use and development of the Site to commercial uses only. The environmental easements for the Site were executed by the Department on 8 October 2014, and filed with the Niagara County Clerk on 30 October 2014. The County Recording Identifier number for this filing is 2014216492 (a copy of the environmental easement is provided in Appendix A).
- A SMP for long-term management of residual contamination as required by the Environmental Easements, which includes plans for IC/ECs, monitoring, operation and maintenance, and reporting.

Refer to Figure 2 for the locations of the ECs.

### **2.2 Summary of EC Intrusive Activities and Modifications Completed During the Certification Period**

During the Certification Period, intrusive activities or modifications of the EC cap/cover system were not performed.

### **2.3 Goal Status and Corrective Measures**

No deviations of the IC/ECs were observed during the Certification Period.

### **2.4 Conclusions and Recommendations**

As agreed to by the Department during a phone call on 30 May 2019, Langan will submit a revised SMP to document revised testing and monitoring requirements for the Site as a result of the modifications to the SSD system at the FONF mall expansion building.

### **3.0 MONITORING PLAN COMPLIANCE REPORT**

#### **3.1 Monitoring Plan Components**

The components of the Monitoring Plan are as follows:

- Annual inspection of the cap/cover system;
- Annual inspection of the fulltime occupied FONF mall expansion building passive SSD system;
- Annual inspection and pressure-field testing of the active SSD system; and,
- An annual site-wide inspection.

#### **3.2 Summary of Monitoring Completed**

##### 3.2.1 Composite Cap/Cover System Inspections

Annual inspection of the composite cap/cover system was completed on 12 September 2019. Conditions of the on-site building foundations/floor slabs, sidewalks, asphalt parking areas, clean cover landscaped areas, and clay lined detention ponds were inspected for quality and integrity. Damages and/or breaches to the composite cap/cover system were not identified during the annual inspections. The site-wide inspection report is included as Appendix C.

##### 3.2.2 SSD System Inspections and Pressure-Field Testing

Annual inspection of the SSD systems was conducted on 12 September 2019. The active SSD system in the occupied office building of the relocated Secure Storage facility was inspected to confirm it was operating per the manufacturers' specifications and the intended design criteria and pressure field testing was completed below the office building concrete slab. Pressure field testing showed a negative pressure below the slab between negative 0.001 and 0.003 in/Hg.

Inspection of the passive SSD system in the mall expansion building showed the passive exhaust fans were continuously operating per the manufacturers' specifications.

Based on the inspections and weekly observations of the system alarms by the site maintenance staff at the FONF mall expansion building and the Secure Storage office building, both the mall expansion building passive SSD system and Secure Storage office building active SSD system were operational for the 2019 Certification Period. The individual system inspection reports are included in Appendix B.

### 3.2.3 Annual Site-wide Inspection

The site-wide inspection was completed in accordance with the requirements outlined in the SMP and consisted of spot inspections of all ECs including the cap/cover system, and the active and passive SSD systems. All IC/EC components inspected were in compliance with the SMP. The completed site-wide inspection form is included as Appendix C.

### **3.3 Comparisons with Remedial Objectives**

The monitoring and inspection activities conducted in 2019 indicate that ECs remain in-place and operational and that the remedial objectives continue to be met for the site.

### **3.4 Monitoring Deficiencies**

Monitoring activities for the Certification Period complied with the SMP Monitoring Plan and NYSDEC's requests.

### **3.5 Conclusions and Recommendations**

As agreed to by the Department during a phone call on 30 May 2019, Langan will submit a revised SMP to document revised testing and monitoring requirements for the Site as a result of the modifications to the SSD system at the FONF mall expansion building. No additional modifications to monitoring plan for the Site are proposed at this time.

## **4.0 O&M PLAN COMPLIANCE REPORT**

### **4.1 O&M Plan Components**

The components of the O&M Plan are as follows:

- SSD systems: Continuous operation and maintenance as necessary

### **4.2 Completed O&M Activities**

#### 4.2.1 SSD Systems

Based on inspection observations, the SSD systems in the FONF mall expansion building and the occupied office building of the relocated Secure Storage facility operated continuously, per the manufacturers' specifications and the intended design criteria for the 2019 Certification Period.

Periodic inspections and general maintenance (e.g., lubrication of active vacuum blower and passive exhausts, cleaning of active blower and passive exhausts) will continue on both the Secure Storage office building active SSD system and the FONF mall expansion building passive SSD system on an as-needed basis. All work will be conducted in accordance with the manufacturer's specifications and the SMP.

### **4.3 Evaluation of SSD Systems**

#### Active SSD System at Secure Storage Office Building

The primary objective of the active SSD system is to create a negative pressure under the concrete slab-on-grade flooring and draw any adverse soil vapors to a vacuum blower system on the exterior of the building where such vapors are discharged to the atmosphere. Continuous operation of the active SSD system indicates effective performance of this system.

#### Passive SSD System at the FONF Mall Expansion Building

The primary objective of the passive SSD system is to create a preferential pathway, assisted by a passive wind-driven exhaust fan and atmospheric pressure, to draw any adverse soil vapor from below the concrete slab-on-grade flooring to an exhaust on the exterior of the building where such vapors are discharged to the atmosphere. A functioning wind-driven exhaust fan and unobstructed system piping indicate effective performance of these mitigation systems.

#### **4.4 O&M Deficiencies**

Based on inspection observations, the SSD systems in the FONF mall expansion building and the occupied office building of the relocated Secure Storage facility operated continuously, per the manufacturers' specifications and the intended design criteria, for the 2019 Certification Period.

#### **4.5 Conclusions and Recommendations**

As agreed to by the Department during a phone call on 30 May 2019, Langan will submit a revised SMP to document revised testing and monitoring requirements for the Site as a result of the modifications to the SSD system at the FONF mall expansion building.

Going forward Langan recommends the following:

- Continue weekly inspections of the Secure Storage office building active SSD system alarm by the site maintenance staff at Secure Storage to ensure continuous operation of the system.
- Continue weekly inspection of the FONF mall expansion building passive SSD system roof mounted wind-driven exhaust fans to ensure proper operation of the fans.
- Continue general maintenance activities (e.g., lubrication, cleaning inlet filters/exhaust fans) on both the Secure Storage SSD system and FONF mall expansion SSD system on an as-needed basis.

## **5.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS**

### **5.1 SMP Compliance**

Each component of the SMP, including the IC/EC Plan, Monitoring Plan, and O&M Plan, was in compliance for the Certification Period.

### **5.2 Remedy Performance Evaluation**

#### 5.2.1 Composite Cap/Cover System

Conditions of the on-site building foundations, sidewalks, parking areas, private roads, landscaped areas, and clay lined ponds were inspected for quality and integrity. The site-wide composite cap/cover system was confirmed to be intact, and continues to be effective in protecting public health and the environment.

#### 5.2.2 SSD Systems

Both the active and passive SSD systems are operating as specified and were effective in mitigating the exposure to potential adverse soil vapor concentrations under the site for the Certification Period.

#### 5.2.3 IC Components

All ICs were maintained during the Certification Period, and the environmental easement on the site remains in place.

### **5.3 Future Submittals**

Langan will submit a revised SMP to NYSDEC to document revised testing and monitoring requirements for the Site as a result of the modifications to the SSD system at the FONF mall expansion building. Inspections/monitoring of the composite cap/cover system and the active and passive SSD systems will continue on an annual basis. Forms and other information generated during regular monitoring events and inspections will be submitted at the time of the annual Periodic Review Report.



## **FIGURES**







## **APPENDIX A**

### **Environmental Easements**

































































## **APPENDIX B**

### **SSD System Inspection Reports**













## **APPENDIX D**

### **Institutional and Engineering Controls Certification Form**

