Beech and Bonaparte engineering p.c.

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14 May 2015

Mr. Timothy Schneider New York State Department of Environmental Conservation Division of Environmental Remediation, Region 8 6274 East Avon-Lima Road Avon, New York 14414-9519

Subject: Short Term Response Action Report

Former Sperry Remington Site – North Portion (#808022) 777 South Main Street, City of Elmira, Chemung County, NY

Dear Mr. Schneider:

On behalf of Unisys Corporation (Unisys), Geosyntec Consultants, Inc. and its New York engineering affiliate, Beech and Bonaparte Engineering, P.C. (collectively, Geosyntec) are submitting this letter report on a Short Term Response Action (STRA) performed at the Former Sperry Remington Site – North Portion (Site #808022) (Site) in Elmira, New York from 29 March to 3 April 2015. This STRA was designed and implemented to temporarily address polychlorinated biphenyls (PCBs) analyzed to be present in shallow soils (0 to 2 feet below ground surface [bgs]¹) in several unpaved areas of the Site. PCB analytical results for shallow soil samples collected by New York State Department of Environmental Conservation (NYSDEC) in 2000, by Sterling Environmental for the Elmira City School District (ECSD) in 2007 and 2008 and on behalf of Unisys in 2014 have been presented in the Site Characterization Data Report (SC Data Report) submitted to NYSDEC on behalf of Unisys on 6 February 2015.

Unisys has been conducting Site Characterization activities at the Site in accordance with an Order on Consent and Administrative Settlement (Order) with NYSDEC (or agency) dated 7 July 2014. On behalf of Unisys, Geosyntec submitted a Shallow Soil STRA Work Plan (STRA Work Plan) to NYSDEC on 26 March 2015 that presented a scope of work to temporarily address PCBs in shallow soils at the Site. That scope of work included inspection of existing cover, temporary cover installation, fence installation, overseeding and access restrictions. Unisys was responsible for inspection of existing cover, temporary cover installation and fencing as described in the following sections. ECSD was responsible for access restrictions and over-seeding, as necessary, as ongoing EMP Site actions. The purpose of this letter report is to document Unisys' implementation of the STRA.

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¹ Below ground surface is interpreted as below vegetative cover.

BACKGROUND

The Site is located at 777 South Main Street in Elmira, Chemung County, New York on the Elmira High School (EHS) property (see **Figure 1**). The EHS property is approximately thirty-four (34) acres and as shown on **Figure 1** is bounded by South Main Street to the west, the Southern Tier Commerce Center (STCC) to the south, the Consolidated Rail Corp. property to the east and vacant land to the north. Miller Pond is located approximately one thousand (1,000) feet to the east. The EHS property has been the subject of multiple environmental investigations between 1998 and 2013. In 2003, New York State Department of Health (NYSDOH) completed a Health Consultation for Southside High School (now EHS) that recommended the school district develop a written soil management plan to "minimize potential public exposures to contaminated subsurface materials and may want to consider instituting a deed notification or restriction."

In June 2009, the Elmira City School District (ECSD) prepared an Environmental Management Plan (EMP) in response to a request from the State Education Department (SED) to formalize environmental management operations and practices at EHS. NYSDEC and NYSDOH provided technical assistance to SED in development and review of the EMP. The intent of the EMP is to advise construction personnel and general community regarding the potential for exposure to Compounds of Potential Concern (COPC) that may be present in soil, groundwater and soil vapor on EHS property. The components of the EMP include a Soil Management Plan (SMP), Indoor Air Quality Action Plan (IAQAP), Groundwater Management Plan (GMP), and an Operations, Monitoring and Maintenance (OM&M) Plan for Engineering Controls.

The SMP addresses issues relating to the management of soil during future development or construction on the property; proposed and existing cover systems (engineering controls) used to prevent human contact with potential residuals in soil and to reduce the potential for COPC migration with surface water runoff from the EHS property; and guidelines and procedures established for management of soil/fill and cover systems, including site preparation, excavations, underground storage tank (UST)/buried drum handling, soil characterization procedures, and composite soil sampling. The SMP defined soil management areas for groups of COPCs including metals, PCBs, and volatile organic compounds (VOCs)/semi-volatile organic compounds (SVOCS). Annual Certification Reports (ACRs) have been submitted to SED and copied to NYSDEC by ECSD to document EMP compliance since 2011.

A Site Characterization Work Plan (SC Work Plan) dated July 2014 and revised October 2014 was submitted to NYSDEC to collect data to document environmental conditions at the Site as it relates to PAOCs, historical information, and new findings. The SC Work Plan was approved by NYSDEC on 2 December 2014. Implementation of the SC Work Plan was expedited in order to complete most field activities and obtain preliminary results prior to start of classes at EHS on 3 September 2014. Verification of previous analytical results in surface and shallow sub-surface soils were conducted in July 2014 in order to confirm that COPCs did not pose an immediate risk to human health and the environment prior to the start of classes. NYSDEC and NYSDOH provided oversight and review during field activities. Preliminary, un-validated analytical results for PCBs and SVOCs in surface soils (0 to 2 inches bgs) were submitted to NYSDEC and NYSDOH on 31 July 2014. Additional surface and subsurface soil investigation for Site Characterization was conducted at the Site in August 2014.

The SC Data Report was submitted to NYSDEC on 6 February 2015 following the completion of data validation on 10 November 2014. NYSDEC contacted Unisys on 26 February 2015 to request discussion

of analytical results for polychlorinated biphenyls (PCBs) in Site soils presented in the SC Data Report. The following section presents PCB analytical results for shallow soils.

PCB RESULTS IN SHALLOW SOILS

The lateral and vertical extent of PCBs in shallow soils (0 to 2 feet bgs) is presented in **Figure 2**. Data presented include the results of environmental investigations by NYSDEC in 2000, subsequent investigation by ECSD between 2007 and 2009 during construction of the Science Addition, and Site Characterization activities conducted by Unisys in 2014. Analytical results are presented separately on **Figure 2** by depth for surface soils (0 to 0.17 feet bgs) and shallow soils (0.17 to 1 feet bgs and 1 to 2 feet bgs). **Table 1** presents a summary of PCB analytical results for soil samples with a sampling interval that includes the 0 to 2 feet bgs depth interval. Some sampling intervals span more than one depth interval on **Figure 2** and are shown as concentric symbols for the same data.

As shown on **Figure 2**, PCBs have been detected in shallow soil samples (0 to 2 feet bgs) at concentration greater than the Restricted Residential Soil Cleanup Objective (SCO)² of one (1) milligram per kilogram (mg/kg) at select sample locations at the Site. Some of those locations are located under paved areas (e.g. the rear parking lot) or under buildings (e.g. the Science Addition). Other locations are in certain portions of unpaved areas including the football field, the athletic field and landscaped areas near the tennis courts, the rear parking lot, and adjacent to the athletic wing at the north end of the EHS building.

DETERMINATION OF APPLICABLE STRA

A meeting to discuss analytical results for PCBs in soils was held on 17 March 2015 with ECSD, NYSDOH, NYSDEC and Unisys present. NYSDOH and NYSDEC presented results of an evaluation that included PCB analytical data from samples collected from 0 to 2 feet bgs between 2000 and 2014 and vegetative cover conditions with respect to preventing potential exposures to shallow soils (0.17 to 2 feet bgs). According to NYSDOH, 2014 surface soil data (0 to 0.17 ft bgs) are consistent with surface soil data previously collected by the NYSDEC/NYSDOH and do not alter conclusions or recommendations presented in the 2003 Health Consultation prepared by NYSDOH. The 2003 Health Consultation also stated that well-established and maintained grass cover minimizes human exposures to soil by limiting direct contact with the soil. As a precaution, a temporary STRA was undertaken by Unisys to evaluate cover systems in areas where PCBs exceed one (1) mg/kg in surface or shallow soils at the EHS and implement additional protective measures to prevent potential exposure to shallow soils in unpaved areas. Figure 2 identifies those areas at the Site addressed by this STRA. STRA actions are summarized in Table 2 by area and include temporary cover, fencing, inspection of existing cover, over-seeding and access restrictions. Unisys was responsible for temporary cover installation and fencing as described in the following sections. ECSD was responsible for over-seeding and access restrictions as ongoing EMP Site actions.

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² 6 NYCRR Subpart 375

SUMMARY OF STRA ACTVITIES

STRA construction began on 29 March 2015 and was completed on 3 April 2015. The construction activities for the STRA were performed by Coventry Environmental Inc. (Coventry) under the supervision of Geosyntec. Representatives from NYSDEC monitored portions of the work. Daily field reports were submitted by electronic mail and are included as Attachment 1. Photographic logs are included as Attachment 2.

Inspection of Existing Cover

On 30 March 2015, Geosyntec and NYSDEC inspected Areas 1, 2, 5, 6, and 7 for well-established vegetation (see **Figure 2**). NYSDEC determined that existing cover was sufficiently established in those areas to minimize human exposure and that over-seeding was not required. Photographs of existing conditions are presented in Attachment 2. NYSDEC requested the following areas not included in the STRA Work Plan be addressed: (a) a muddy area on the edge of Area 4; (b) potholes in the rear parking lot south of Area 8; (c) bare areas immediately adjacent to the track; and (d) the unfenced area to the south of Area 2. Unisys agreed to expand the temporary cover installation in Area 4 and install temporary cover to the south of Area 2 (Area 2A as shown on **Figure 2**). Bare areas adjacent to the track and potholes in the rear parking lot would be addressed by ECSD by over-seeding and repaving, respectively.

Fence Inspection

During the cover inspection on 30 March 2015, Geosyntec and NYSDEC determined that the existing vegetative cover in Area 2 was in good condition. Geosyntec inspected the existing fencing around the east, west and south sides of Area 2 on 2 April 2015 and met with McDonald Fencing and Deck to discuss fencing options. Because the existing vegetative cover in Area 2 was observed to be in good condition, Geosyntec notified NYSDEC by electronic mail on 2 April 2015 that additional fencing was not needed in Area 2 at this time. Photographs of cover conditions in Area 2 are provided in Attachment 2.

Temporary Cover Installation

Unisys installed temporary cover in Areas 2A, 3, 4, 8 and 9 as shown on **Figure 2**. Temporary cover consisted of non-woven geotextile and approximately twelve (12) inches of hardwood mulch. Mulch was kept in place by wood frames secured by rebar. Ground surface in each area was prepared by removal of angular or sharp objects. After surface preparation, geotextile was used to cover existing ground surface and held in place with landscaping staples. An approximate twelve-inch (12-in) high border was prepared for each area using landscaping timbers, anchored in place using rebar as ground-spikes. Each area was completed by adding an approximate twelve-inch (12-in) hardwood mulch layer. After completion, the surrounding area was broom swept /raked to remove mulch from outside the completed area. Details specific to cover installation at each area are provided below.

Area 2A

Area 2A is an unfenced area located to the south of Area 2 (**Figure 2**) with an area of approximately 250 square feet. Installation of temporary cover in Area 2 was added to the scope of work following inspection of existing cover with NYSDEC on 30 March 2015. Coventry prepared the ground surface, applied geotextile and framed the area on 30 March 2015. On 30 March 2015, Coventry began framing

the wood border around Area 2A. Mulching began on 31 March 2015 and ended 1 April 2015. Photographs of work progress at Area 2A are presented in Attachment 2.

Area 3

Area 3 is located to the west of the EHS gymnasium and locker rooms (**Figure 2**) with an area of approximately 12,400 square feet. Coventry prepared the ground surface and applied geotextile in Area 3 on 29 March 2015. On 30 March 2015, Coventry began framing the wood border around Area 3 and applying mulch. Mulching was completed on 1 April 2015. Mulch was extended to the edge of the school building with the consent of ECSD. Photographs of work progress at Area 3 are presented in Attachment 2.

Area 4

Area 4 is located to the east of the EHS gymnasium and swimming pool (**Figure 2**) with an area of approximately 15,000 square feet. Initial cover conditions at Area 4 consisted of poorly-established turf with some muddy-rutting in the center of the area and muddy bare ground adjacent to the asphalt at the eastern edge of Area 4. Area 4 was enlarged to include bare areas to the east at the request of NYSDEC. Coventry laid down geotextile and completed framing on Area 4 on 31 March 2015. At the request of ECSD, framed areas did not block the exit doors from the gymnasium and swimming pool. Mulching Area 4 began on 1 April 2015 and was completed on 2 April 2015. Emergency exits signs were placed at each exit to indicate the exit direction in case of emergency. Photographs of work progress at Area 4 are presented in Attachment 2.

Area 8

Area 8 is located to the east of the EHS gymnasium along the Site fence (**Figure 2**) with an area of approximately 2,820 square feet. The initial ground cover at Area 8 consisted of poorly-established turf and some bare spots. Coventry completed preparations of the ground surface, application of the geotextile, and construction of the wood border on 1 April 2015. Mulching began on 1 April 2015 and ended on 2 April 2015. Photographs of work progress at Area 8 are presented in Attachment 2.

Area 9

Area 9 is located in the EHS rear parking lot (**Figure 2**) with an area of approximately 1,620 square feet. Area 9 consisted of a strip of poorly-established turf, framed planters and several trees. Coventry applied the geotextile and began work on the wood frame on 1 April 2015: Construction of the wood frame and application of the mulch was completed on 2 April 2015. The wood frame enclosed the existing wood planters. Photographs of work progress at Area 9 are presented in Attachment 2.

Access Restrictions

ECSD posted a notice provided by NYSDEC on the EHS web site on or about 30 March 2015 that described the STRA work to be performed and notified the public that the fields and track would be closed to the public during Spring Recess (30 March to 3 April 2015). On 2 April 2015, Geosyntec observed that a gate at the north end of the track was unlocked and propped open. Geosyntec notified ECSD that the gate was open and inspected the other gates to the track and fields. All other gates were observed to be locked. Photographs of the gates are provided in Attachment 2.

Site Restoration and Demobilization

During construction and at the end of the work, Coventry swept and raked the construction area clean. Coventry demobilized from the Site on 2 and 3 April 2015. Geosyntec met with Twin Tier Landscaping of Elmira, New York to discuss maintenance of the temporary cover. Unisys plans to inspect the temporary cover on a regular basis and add additional cover material as necessary to maintain approximate twelve-inch (12-in) hardwood mulch layer.

CLOSING

Geosyntec appreciates the opportunity to submit this letter report to the NYSDEC, NYSDOH, NYSED and ECSD. If you have any questions, please contact Mr. Kevin Krueger of Unisys at (651) 687-2210.

Sincerely,

Geosyntec Consultants, Inc.

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Paul A. Barder

Paul Brookner, MBA, P.G. Associate/Project Director Geosyntec Consultants, Inc. Aron Krasnopoler, Ph.D., P.E. Project Engineer/Project Manager Beech and Bonaparte Engineering P.C.

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Attachments: Figure 1 – Site Location Map

Figure 2 – Extent of PCBs in Soil and Completed Actions - Spring 2015

Table 1 – PCB Soil Data

Table 2 – Proposed STRA Actions

Attachment 1 – Daily Field Reports via Electronic Mail

Attachment 2 – Photographic Log

Copies to: Bart Putzig, NYSDEC Kevin Krueger, Unisys

Krista Anders, NYSDOH David Noble, Unisys

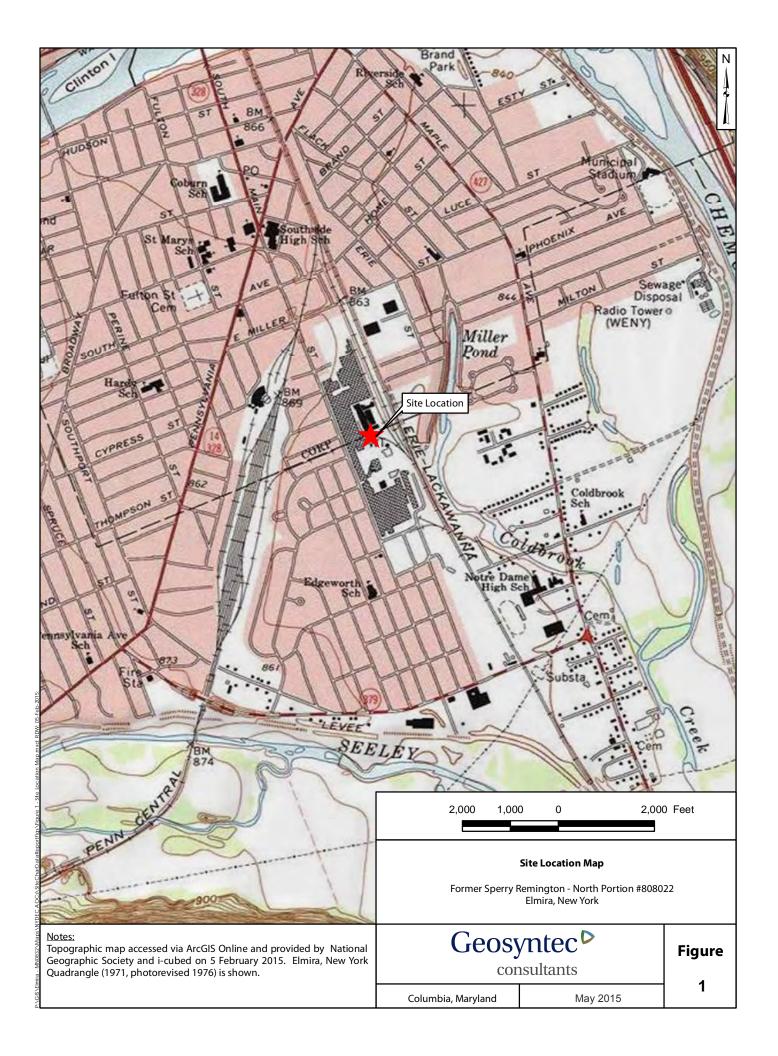
Ben Conlon, NYSDEC John H. Paul, Beveridge & Diamond

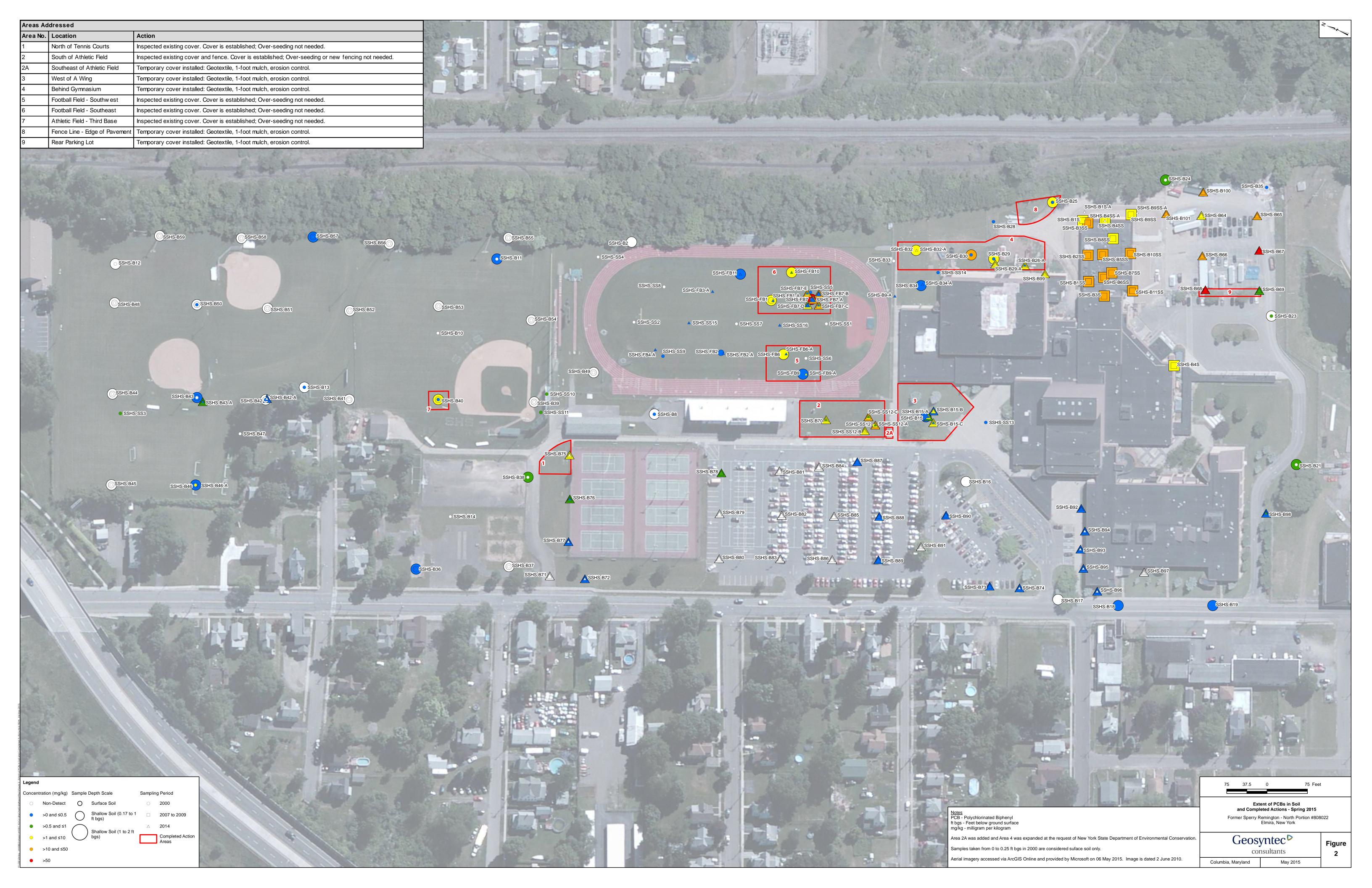
Michael Cruden, NYSDEC Michael G. Murphy, Beveridge & Diamond

Justin Deming, NYSDOH Michael Dunn– ECSD Dawn Hettrick, NYSDOH Hillary Austin – ECSD

Carl Thurnau - NYSED









Former Sperry Remington Site - North Portion Elmira, New York

Sample		Top of Sampling Interval	Bottom of Sampling Interval	Concentration
Location	Date	(ft bgs)	(ft bgs)	(mg/kg)
SSHS-B10	5/10/2000	0	0.25	0
SSHS-B100	8/15/2014	0.17	2	13.89
SSHS-B101	8/14/2014	0.17	2	13.75
SSHS-B10SS	6/10/2008	0	2.5	14
SSHS-B11	5/10/2000	0	0.25	0
SSHS-B11	5/10/2000	1	3	0.34
SSHS-B11SS	6/10/2008	0	2.5	8.4
SSHS-B11SS	6/10/2008	0	2.5	9.5
SSHS-B11SS	6/10/2008	0	2.5	14
SSHS-B12	5/10/2000	0	0.25	0
SSHS-B12	5/10/2000	1	4	0
SSHS-B13	5/10/2000	0	0.25	0.15
SSHS-B13	5/10/2000	1	2	0
SSHS-B14	5/10/2000	0	0.25	0
SSHS-B15	5/10/2000	0	0.25	0.19
SSHS-B15	7/11/2000	0.75	1	0.042
SSHS-B15	7/27/2000	1	1.5	0.11
SSHS-B15-A	7/22/2014	0	0.17	0.152
SSHS-B15-A	7/22/2014	0.17	1	6.5
SSHS-B15-A	7/22/2014	1	2	0.55
SSHS-B15-B	7/22/2014	0	0.17	1.02
SSHS-B15-B	7/22/2014	0.17	1	6.3
SSHS-B15-B	7/22/2014	1	2	0.144
SSHS-B15-C	7/22/2014	0	0.17	0.07
SSHS-B15-C	7/22/2014	0.17	1	5.7
SSHS-B15-C	7/22/2014	1	2	1.169
SSHS-B16	5/10/2000	1	2	0
SSHS-B17	5/10/2000	1	3	0
SSHS-B18	5/10/2000	1	3	0.074
SSHS-B19	5/9/2000	1	4	0.015
SSHS-B1S	7/25/2007	0.5	2	4.5
SSHS-B1S-A	7/22/2014	0	0.17	0
SSHS-B1SS	6/10/2008	0	2.6	8.4
SSHS-B1SS	6/10/2008	0	2.6	9.5
SSHS-B1SS	6/10/2008	0	2.6	11
SSHS-B2	5/12/2000	1	2	0

Notes

Former Sperry Remington Site - North Portion Elmira, New York

Sample Location	Date	Top of Sampling Interval (ft bgs)	Bottom of Sampling Interval (ft bgs)	Concentration (mg/kg)
SSHS-B21	5/9/2000	0	0.25	0
SSHS-B21	5/9/2000	1	4	0.99
SSHS-B23	5/9/2000	0	0.25	0.89
SSHS-B23	5/9/2000	1	4	0
SSHS-B24	5/9/2000	0	0.25	0
SSHS-B24	5/9/2000	1	4	0.84
SSHS-B25	5/9/2000	0	0.25	0.086
SSHS-B25	5/9/2000	1	4	1.64
SSHS-B26-A	8/14/2014	0	0.17	0.409
SSHS-B26-A	8/14/2014	0.17	2	1.073
SSHS-B28	5/9/2000	0	0.25	0.023
SSHS-B29	7/11/2000	0	0.25	0.415
SSHS-B29	5/8/2000	1	4	2.92
SSHS-B29-A	8/13/2014	0	0.17	1.04
SSHS-B29-A	8/13/2014	0.17	2	3.1
SSHS-B2SS	6/10/2008	0	1.8	14
SSHS-B30	7/11/2000	0	0.25	0.251
SSHS-B30	5/8/2000	1	4	13
SSHS-B32	5/8/2000	1	4	8.75
SSHS-B32-A	7/21/2014	0	0.17	1.07
SSHS-B33	5/9/2000	0	0.25	0
SSHS-B34	5/9/2000	1	4	0.26
SSHS-B34-A	7/21/2014	0	0.17	0.157
SSHS-B35	5/9/2000	0	0.25	0.427
SSHS-B36	9/12/2000	0	0	0.079
SSHS-B36	9/12/2000	0.5	2.5	0.38
SSHS-B37	9/12/2000	0	0	0
SSHS-B37	9/12/2000	0.5	2.5	0
SSHS-B38	9/12/2000	0	0	0
SSHS-B38	9/12/2000	1	4.5	0.87
SSHS-B39	9/12/2000	0	0	0
SSHS-B39	9/12/2000	0.5	2.5	0
SSHS-B3S	7/25/2007	0.5	2	32
SSHS-B3SS	6/10/2008	0	2	14
SSHS-B40	9/12/2000	0	0	0.16
SSHS-B40	9/12/2000	0.5	2.5	1.31

Notes

Former Sperry Remington Site - North Portion Elmira, New York

		Top of Sampling	Bottom of Sampling	
Sample		Interval	Interval	Concentration
Location	Date	(ft bgs)	(ft bgs)	(mg/kg)
SSHS-B41	9/12/2000	0	0	0
SSHS-B41	9/12/2000	0.5	2.5	0
SSHS-B42	9/12/2000	0	0	0.056
SSHS-B42	9/12/2000	0.5	2.5	0
SSHS-B42-A	8/15/2014	0	0.17	0
SSHS-B42-A	8/15/2014	0.17	2	0.055
SSHS-B43	9/12/2000	0	0	0
SSHS-B43	9/12/2000	0.5	2.5	0.39
SSHS-B43-A	8/15/2014	0	0.17	0.056
SSHS-B43-A	8/15/2014	0.17	2	0.507
SSHS-B44	9/13/2000	0	0	0
SSHS-B44	9/13/2000	0.5	2.5	0
SSHS-B45	9/13/2000	0	0	0
SSHS-B45	9/13/2000	0.5	2.5	0
SSHS-B46	9/13/2000	0	0	1.83
SSHS-B46	9/13/2000	0.5	2.5	0.32
SSHS-B46-A	7/21/2014	0	0.17	0.181
SSHS-B47	9/13/2000	0	0	0
SSHS-B48	9/13/2000	0	0	0
SSHS-B48	9/13/2000	0.5	2.5	0
SSHS-B49	9/13/2000	0	0	0
SSHS-B49	9/13/2000	0.5	2.5	0
SSHS-B4S	7/25/2007	0.5	2	3.5
SSHS-B4SS	6/10/2008	0	2	3.5
SSHS-B4SS-A	7/22/2014	0	0.17	0
SSHS-B50	9/13/2000	0	0	0.15
SSHS-B50	9/13/2000	0.5	2.5	0
SSHS-B51	9/13/2000	0	0	0
SSHS-B51	9/13/2000	0.5	2.5	0
SSHS-B52	9/13/2000	0	0	0
SSHS-B52	9/13/2000	0.5	2.5	0
SSHS-B53	9/13/2000	0	0	0
SSHS-B53	9/13/2000	0.5	2.5	0
SSHS-B54	9/13/2000	0	0	0
SSHS-B54	9/13/2000	0.5	2.5	0
SSHS-B55	9/13/2000	0	0	0

Notes

Former Sperry Remington Site - North Portion Elmira, New York

		Top of Sampling	Bottom of Sampling	
Sample		Interval	Interval	Concentration
Location	Date	(ft bgs)	(ft bgs)	(mg/kg)
SSHS-B55	9/13/2000	0.5	2.5	0
SSHS-B56	9/13/2000	0	0	0
SSHS-B56	9/13/2000	0.5	2.5	0
SSHS-B57	9/13/2000	0	0	0.078
SSHS-B57	9/13/2000	0.5	2.5	0.053
SSHS-B58	9/13/2000	0	0	0
SSHS-B58	9/13/2000	0.5	2.5	0
SSHS-B59	9/13/2000	0	0	0
SSHS-B59	9/13/2000	0.5	2.5	0
SSHS-B5SS	6/10/2008	0	2.5	14
SSHS-B64	8/14/2014	0.17	2	2
SSHS-B65	8/14/2014	0.17	2	10.5
SSHS-B66	8/14/2014	0.17	2	25.1
SSHS-B67	8/14/2014	0.17	2	272
SSHS-B68	8/14/2014	0.17	2	104.9
SSHS-B69	8/14/2014	0.17	2	0.571
SSHS-B6SS	6/10/2008	0	2.5	11
SSHS-B70	8/14/2014	0	0.17	0.823
SSHS-B70	8/14/2014	0.17	2	1.5
SSHS-B71	8/15/2014	0.17	2	0
SSHS-B72	8/15/2014	0	0.17	0
SSHS-B72	8/15/2014	0.17	2	0.07
SSHS-B73	8/13/2014	0.17	2	0.042
SSHS-B74	8/13/2014	0	0.17	0
SSHS-B74	8/13/2014	0.17	2	0.033
SSHS-B75	8/14/2014	0	0.17	0
SSHS-B75	8/14/2014	0.17	2	4.07
SSHS-B76	8/14/2014	0	0.17	0.352
SSHS-B76	8/14/2014	0.17	2	0.53
SSHS-B77	8/14/2014	0	0.17	0
SSHS-B77	8/14/2014	0.17	2	0.162
SSHS-B78	8/14/2014	0.17	2	0.76
SSHS-B79	8/14/2014	0.17	2	0
SSHS-B7SS	6/10/2008	0	2	11
SSHS-B8	5/11/2000	0	0.25	0.284
SSHS-B8	5/11/2000	1	3	0

Notes

Former Sperry Remington Site - North Portion Elmira, New York

		Top of Sampling	Bottom of Sampling	
Sample		Interval	Interval	Concentration
Location	Date	(ft bgs)	(ft bgs)	(mg/kg)
SSHS-B80	8/14/2014	0.17	2	0
SSHS-B81	8/14/2014	0.17	2	0
SSHS-B82	8/13/2014	0.17	2	0
SSHS-B83	8/14/2014	0.17	2	0
SSHS-B84	8/14/2014	0.17	2	0
SSHS-B85	8/13/2014	0.17	2	0
SSHS-B86	8/13/2014	0.17	2	0
SSHS-B87	8/14/2014	0.17	2	0.185
SSHS-B88	8/13/2014	0.17	2	0.085
SSHS-B89	8/13/2014	0.17	2	0.019
SSHS-B8SS	6/10/2008	0	2.2	3.5
SSHS-B90	8/13/2014	0.17	2	0.126
SSHS-B91	8/13/2014	0	0.17	0
SSHS-B91	8/13/2014	0.17	2	0
SSHS-B92	8/12/2014	0	0.17	0.069
SSHS-B92	8/12/2014	0.17	2	0.391
SSHS-B93	8/12/2014	0	0.17	0
SSHS-B93	8/12/2014	0.17	2	0.086
SSHS-B94	8/12/2014	0	0.17	0
SSHS-B94	8/12/2014	0.17	2	0.039
SSHS-B95	8/12/2014	0	0.17	0
SSHS-B95	8/12/2014	0.17	2	0.219
SSHS-B96	8/12/2014	0	0.17	0
SSHS-B96	8/12/2014	0.17	2	0.079
SSHS-B97	8/13/2014	0	0.17	0
SSHS-B97	8/13/2014	0.17	2	0
SSHS-B98	8/13/2014	0	0.17	0.58
SSHS-B98	8/13/2014	0.17	2	0.336
SSHS-B99	8/13/2014	0	0.17	1.14
SSHS-B99	8/13/2014	0.17	2	1.11
SSHS-B9-A	7/21/2014	0	0.17	0.191
SSHS-B9SS	6/10/2008	0	2.2	3.5
SSHS-B9SS-A	7/22/2014	0	0.17	0
SSHS-FB1	6/29/2000	0.5	2	2.94
SSHS-FB10	7/22/2014	0	0.17	0.92
SSHS-FB10	6/29/2000	1	3	2.89

Notes

Former Sperry Remington Site - North Portion Elmira, New York

		Top of Sampling	Bottom of Sampling	
Sample		Interval	Interval	Concentration
Location	Date	(ft bgs)	(ft bgs)	(mg/kg)
SSHS-FB11	7/22/2014	0	0.17	0.159
SSHS-FB11	6/29/2000	1	3	0.45
SSHS-FB1-A	7/22/2014	0	0.17	0.36
SSHS-FB2	6/29/2000	0.5	1	0.13
SSHS-FB2-A	7/22/2014	0	0.17	0.11
SSHS-FB3-A	7/22/2014	0	0.17	0.151
SSHS-FB4-A	7/22/2014	0	0.17	0.098
SSHS-FB6	6/29/2000	1	3	0
SSHS-FB6	6/29/2000	1	2	1.006
SSHS-FB6-A	7/22/2014	0	0.17	0.33
SSHS-FB7	8/14/2000	0	0.25	0.19
SSHS-FB7	6/29/2000	1	3	4.2
SSHS-FB7	8/14/2000	1.5	2	160
SSHS-FB7-A	7/21/2014	0	0.17	0.4
SSHS-FB7-A	7/21/2014	0.17	1	0.24
SSHS-FB7-A	7/21/2014	1	2	23.5
SSHS-FB7-B	7/21/2014	0	0.17	0.253
SSHS-FB7-B	7/21/2014	0.17	1	0.07
SSHS-FB7-B	7/21/2014	1	2	31.8
SSHS-FB7-C	7/21/2014	0	0.17	0.06
SSHS-FB7-C	7/21/2014	0.17	1	4.22
SSHS-FB7-C	7/21/2014	1	2	27.3
SSHS-FB7-D	7/21/2014	0	0.17	0.33
SSHS-FB7-D	7/21/2014	0.17	1	0.205
SSHS-FB7-D	7/21/2014	1	2	7.2
SSHS-FB7-E	7/21/2014	0	0.17	0.298
SSHS-FB7-E	7/21/2014	0.17	1	7.5
SSHS-FB7-E	7/21/2014	1	2	27.3
SSHS-FB9	6/29/2000	1	2	0.068
SSHS-FB9-A	7/22/2014	0	0.17	2.091
SSHS-SS1	5/10/2000	0	0.25	0
SSHS-SS10	9/12/2000	0	0	0.73
SSHS-SS11	9/12/2000	0	0	0.73
SSHS-SS12	9/12/2000	0	0	3.04
SSHS-SS12-A	7/22/2014	0	0.17	0.58
SSHS-SS12-A	7/22/2014	0.17	1	1.38

Notes

Former Sperry Remington Site - North Portion Elmira, New York

Sample Location	Date	Top of Sampling Interval (ft bgs)	Bottom of Sampling Interval (ft bgs)	Concentration (mg/kg)
SSHS-SS12-A	7/22/2014	1	2	32.1
SSHS-SS12-B	7/22/2014	0	0.17	4.3
SSHS-SS12-B	7/22/2014	0.17	1	2.6
SSHS-SS12-B	7/22/2014	1	2	9.3
SSHS-SS12-C	7/22/2014	0	0.17	0.56
SSHS-SS12-C	7/22/2014	0.17	1	2.48
SSHS-SS12-C	7/22/2014	1	2	14.4
SSHS-SS13	9/12/2000	0	0	0.19
SSHS-SS14	9/12/2000	0	0	0.11
SSHS-SS15	7/22/2014	0	0.17	0.078
SSHS-SS16	7/22/2014	0	0.17	0.053
SSHS-SS2	5/10/2000	0	0.25	0
SSHS-SS3	5/10/2000	0	0.25	0.98
SSHS-SS4	5/11/2000	0	0.25	0
SSHS-SS5	9/12/2000	0	0	0.053
SSHS-SS6	9/12/2000	0	0	0

Table 2 Completed STRA Actions

Former Sperry Remington Site - North Portion Elmira, New York

Area No.	Location	Action
1	North of Tennis Courts	Inspected existing cover. Cover is established; Over-seeding not needed.
2	South of Athletic Field	Inspected existing cover and fence. Cover is established; Over-seeding or new fencing not needed.
2A	Southeast of Athletic Field	Temporary cover installed: Geotextile, 1-foot mulch, erosion control.
3	West of A Wing	Temporary cover installed: Geotextile, 1-foot mulch, erosion control.
4	Behind Gymnasium	Temporary cover installed: Geotextile, 1-foot mulch, erosion control.
5	Football Field - Southwest	Inspected existing cover. Cover is established; Over-seeding not needed.
6	Football Field - Southeast	Inspected existing cover. Cover is established; Over-seeding not needed.
7	Athletic Field - Third Base	Inspected existing cover. Cover is established; Over-seeding not needed.
8	Fence Line - Edge of Pavement	Temporary cover installed: Geotextile, 1-foot mulch, erosion control.
9	Rear Parking Lot	Temporary cover installed: Geotextile, 1-foot mulch, erosion control.

ATTACHMENT 1 DAILY FIELD REPORTS VIA ELECTRONIC MAIL

Sent:Sunday, March 29, 2015 6:31 PMTo:Aron Krasnopoler; Paul BrooknerSubject:Elmira STRA 29- March 2015Attachments:Photolog 3-39-2015.pdf

Hello Aron and Paul,

Today I met Coventry onsite. We discussed the SOW, potential public involvement, and held a thorough health and safety meeting. Coventry began laying down geotextile fabric. The completely covered Area 3 with fabric at the end of the day.

A couple questions came up during the site walk/SOW discussion:

- 1- When placing mulch around the trees, I told them they could slope the mulch away from the trees,
- 2- Can they place mulch against the building in Area 4 or should they build a frame along the building? One suggestion was to slope the mulch to the building, so that only a few inches of mulch was against the building.
- 3- Area 9, Do you want us to mulch over the old flower box shown in the middle of photo6 in the photolog? Also, should we mulch over the intact flower boxes in the back of the photo or frame and mulch around them?

Plan for tomorrow is to start framing and mulching Area 3.

Have a good evening

Mark Bauer

Geosyntec Consultants 10220 Old Columbia Rd Suite A Columbia, MD 21046

Tel: 410-381-4333 Fax: 410-381-4499

Sent:Monday, March 30, 2015 8:03 PMTo:Aron Krasnopoler; Paul BrooknerSubject:Elmira STRA 30 March 2015

Attachments: Photolog 3-30-2015.pdf; Emergency Exit.pptx

Hello Aron and Paul,

Today Coventry completed framing in Area 3 and the area between Area 2 and Area 3 (Area 2A) and almost finished mulching in Area 3. A total of 450 yards of mulch was placed in Area 3.

Plan for tomorrow is to finish mulching Area 3 and Area 2A. Area 3 will require about 4 more tuck loads of mulch (100 Yards) and Area 2a will require about a half load mulch (15 yards). Once these areas are complete we will begin mulching and framing Area 4.

Tim Schneider of NYSDEC stopped by the site. We walked the Site and discussed the condition of the cover. Below is a summary of the Site walk:

- Area between Area 2 and Area 3 should be covered (Photo 4)
- The muddy area just outside of the cover area in Area 4 should be covered (Photo 6)
- There are several 6" deep pot holes south of Area 8 and the shallow soil sample indicate elevated PCB levels (Photo 5).
- The grass cover adjacent to the tennis court and cover in the outfield of the baseball field is in good condition and well established (Photo 8).
- The grass cover in the football field is in good condition.
- DEC is concerned about the soil exposed along the edge of the track (Photo 7)

Tim mentioned Bob Long of DEC will be onsite tomorrow.

Today I discussed mulching around the building in Area 4 with Mike Dunn. He was ok with us place mulch against the building and sloping toward the building. In areas where we will need to frame around the gym/pool exit, Mike has requested we paint the lumber bright orange to indicate a trip hazard and to place sign in the mulch warning of the step and showing the direction to exit in cases of emergency. Attached is the sign that Mike said he would make for us. Please let me know if you have any comments to the sign.

Mark Bauer

Geosyntec Consultants 10220 Old Columbia Rd Suite A Columbia, MD 21046

Tel: 410-381-4333 Fax: 410-381-4499

Sent: Tuesday, March 31, 2015 5:43 PM **To:** Aron Krasnopoler; Paul Brookner

Subject: STRA 31 March 2015 **Attachments:** Photolog 3-31-2015.pdf

Hello Aron and Paul,

Today we finished mulching Area 3. Area 3 now only requires a little raking to level out the uneven areas and a few of the 6"X 6" timbers need to be pinned in to place. Area 2A still needs some mulch. Coventry laid out geotextile and framed in Area 4. Also, mulching in Area 4 began today, approximately 400 yards of mulch was placed in Area 4. Coventry estimates about another 600 yards of mulch will be needed to fill Area 4.

Plan for tomorrow is to continue mulching Area 4 and to start framing Areas 8 and 9. Also, Hepaco is going to remove the drums from the Conex box and clean out the frac tank.

Jim Long of NYSDEC stopped by the Site today. He didn't have much to say, I walked the Site with him and we discussed each cover area. He said Tim Schneider may stop by the Site tomorrow.

Mark Bauer

Geosyntec Consultants 10220 Old Columbia Rd Suite A Columbia, MD 21046

Tel: 410-381-4333 Fax: 410-381-4499

Sent: Thursday, April 2, 2015 6:17 AM **To:** Aron Krasnopoler; Paul Brookner

Subject: STRA 1 April 2015 **Attachments:** Photolog 1-4-2015.pdf

Hello Aron and Paul,

Yesterday, Coventry continued mulching in Area 4, placed fabric in Area 8 and 9, and constructed the boarder in Area 8 and partially in Area 9.

HEPACO pumped out the frac tank and then steam cleaned the frac tank with a steam pressure washer and industrial soap (Simple Green). Approximately 700 gallons of frac tank contents and cleaning liquids where transported by Cycle Chem to Lewisberry for disposal. HEPACO also removed 11 drums from the Site (1 drum of ice generated during the frac tank cleaning; 2 soil drums; 5 drums of IDW, PPE, and debris; and 4 drums of water.

Plan for today is to continue mulching Areas 4,8, and 9. And to finish building the box around Area 9.

Have a good day.

Mark Bauer

Geosyntec Consultants 10220 Old Columbia Rd Suite A Columbia, MD 21046

Tel: 410-381-4333 Fax: 410-381-4499

Sent: Thursday, April 2, 2015 6:21 PM **To:** Aron Krasnopoler; Paul Brookner

Subject: STRA 2 April 2015 **Attachments:** Photolog 2-4-2015.pdf

Hello Paul and Aron,

Today Coventry finished installation/construction of the temporary covers. They did a final cleaning of the site and partially demobilized from the Site. One crew returned to the shop and the other crew will return to the Site tomorrow to refuel and grease the equipment before returning the equipment to the rental company.

Today I met with McDonald Fencing and Deck to discuss installing a fence in Area 2. McDonald provided a quote to install fencing at the Site.

Plan for tomorrow is to meet with Twin Tiers Landscaping to discuss maintaining the mulch in in the cover areas.

Have a good evening.

Mark Bauer

Geosyntec Consultants 10220 Old Columbia Rd Suite A Columbia, MD 21046

Tel: 410-381-4333 Fax: 410-381-4499

Sent: Monday, April 6, 2015 7:14 AM **To:** Aron Krasnopoler; Paul Brookner

Subject: STRA 3 April 2015

Good morning Paul and Aron,

On Friday, 3 April 2015, Coventry completely demobilized from the Site. The rented front loader and skid steer were parked in the southeast corner of the back parking lot. Geosyntec closed the man gate on the northern end of the playing fields, as requested by Joe Billek of the ECSD.

Also, Geosyntec met with Eugene of Twin Tiers Landscaping. Geosyntec and Twin Tiers discussed, maintaining the mulch in the cover areas, weeding the mulch boxes, trimming around the mulch boxes, and maintaining the bright orange spray paint on the boxes around the gym/pool emergency exits. Geosyntec requested that Twin Tiers checks the mulch boxes at least weekly during the initial growing season for weeds. Twin Tiers asked if Roundup could be used to control the weeds in the mulch boxes, Geosyntec informed Twin Tiers that the ECSD does not allow the use of any chemicals for weed control. Twin Tiers said they would be in contact with Geosyntec to discuss the details/cost of maintaining the mulch.

Geosyntec met with Mike Dunn of the ECSD after Twin Tiers departed the Site. Geosyntec summarized the weeks work and the maintenance of the mulch boxes. Geosyntec returned the school key and fob to Mike Dunn and departed the Site.

Mark Bauer

Geosyntec Consultants 10220 Old Columbia Rd Suite A Columbia, MD 21046

Tel: 410-381-4333 Fax: 410-381-4499

ATTACHMENT 2 PHOTOGRAPHIC LOG

Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 1

Date: 29 March 2015

Direction: E

Comments: Installing geotextile over Area 3



Photograph 2

Date: 29 March 2015

Direction: S

Comments: Hedge along west side of the gym. Fabric cut at the edge of the bushes



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 3

Date: 29 March 2015

Direction: E

Comments: Areas 2

and 3 – preinstallation.



Photograph 4

Date: 29 March 2015

Direction: N

Comments: Area 3 completely covered in

geotextile



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 5

Date: 29 March 2015

Direction: N

Comments: Area 3 completely covered in

geotextile



Photograph 6

Date: 29 March 2015

Direction: SE

Comments: Pre-STRA condition of Area 9



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 7

Date: 30 March 2015

Direction: E

Comments: Laying out border around Area 3



Photograph 8

Date: 30 March 2015

Direction: S

Comments: Mulch installation - Area 3



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 9

Date: 30 March 2015

Direction: N

Comments: Area 3 – mulch installation



Photograph 10

Date: 30 March 2015

Direction: E

Comments: Area between Area 2 and Area 3 framed and ready for mulch installation.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 11

Date: 30 March 2015

Direction: S

Comments: Pot holes on the south side of the parking. Area added to STRA Area 4 after consultation with NYSDEC.



Photograph 12

Date: 30 March 2015

Direction: N

Comments: Pre-STRA conditions adjacent to Area 4. After consultation with NYSDEC this area was added to Area 4.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

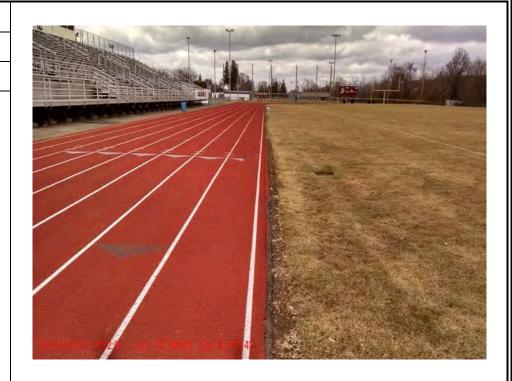
Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 13

Date: 30 March 2015

Direction: W

Comments: Football field turf conditions.



Photograph 14

Date: 30 March 2015

Direction: N

Comments: Current condition of the grass cover adjacent to the tennis court.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 15

Date: 31 March 2015

Direction: N

Comments: Laying geotextile in Area 4.

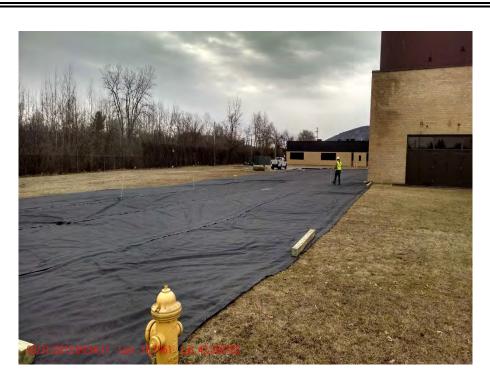


Photograph 16

Date: 31 March 2015

Direction: S

Comments: Geotextile installed in Area 4



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 17

Date: 31 March 2015

Direction: N

Comments: Framing in

Area 4



Photograph 18

Date: 31 March 2015

Direction: N

Comments: Area 3 mulching completed



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Photograph 19

Date: 1 April 2015

Direction: N

Comments: Placing mulch in Area 4



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 20

Date: 1 April 2015

Direction: SE

Comments: Area 8 with geotextile and

framing.



Photograph 21

Date: 1 April 2015

Direction: S

Comments: Area 9 with fabric and

framed.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 22

Date: 1 April 2015

Direction: E

Comments: Waist high fence between the outer fence and Area 2



Photograph 23

Date: 1 April 2015

Direction: SE

Comments: Turf conditions, south end

of Area 2.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 24

Date: 2 April 2015

Direction: S

Comments: Area 2 turf

conditions.



Photograph 25

Date: 2 April 2015

Direction: S

Comments: Area 2 turf

conditions.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 26

Date: 2 April 2015

Direction: N

Comments: Condition of the grass cover in

Area 2



Photograph 27

Date: 2 April 2015

Direction: N

Comments: Condition of the grass cover in

Area 2



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 28

Date: 2 April 2015

Direction: N

Comments: Area 9

completed



Photograph 29

Date: 2 April 2015

Direction: N

Comments: Area 8

completed



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 30

Date: 2 April 2015

Direction: N

Comments: Area 4

completed



Photograph 31

Date: 2 April 2015

Direction: NA

Comments: Emergency exit signs outside gym

and pool.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 32

Date: 2 April 2015

Direction: S

Comments: Man gate at the end of the field



Photograph 33

Date: 2 April 2015

Direction: S

Comments: Vehicle entry gate on the north

side of the field



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 34

Date: 2 April 2015

Direction: SE

Comments: Gates on the north west side of

the site



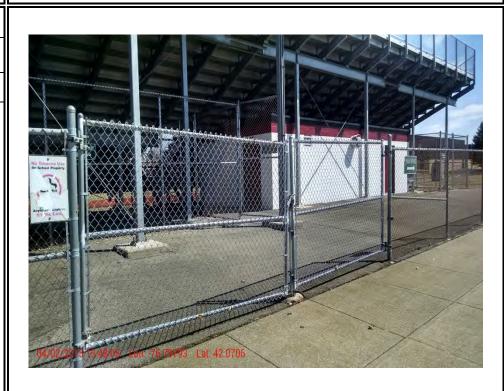
Photograph 35

Date: 2 April 2015

Direction: SE

Comments: Gate behind the grandstand on the west side of the

site.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 36

Date: 2 April 2015

Direction: SE

Comments: Gate adjacent to Area 2



Photograph 37

Date: 2 April 2015

Direction: N

Comments: Gate on the south side of Area

2.



Geosyntec consultants

Client: Unisys Corporation Project Number: MN0832B

Site Name: Former Sperry Remington North Site Location: Elmira High School, Elmira, NY

Photograph 38

Date: 2 April 2015

Direction: N

Comments: Gate on the south side of the football field.



Photograph 39

Date: 2 April 2015

Direction: N

Comments: Gate on the southwest corner of the football field.

