

September 29, 2017

Reference No. 11137432

Mr. David Szymanski New York State Department of Environmental Conservation 270 Michigan Avenue Buffalo, New York 14203-2999

Dear Mr. Szymanski:

Re: Annual Periodic Review

Former NL Industries Site No. C915200

GHD Consulting Services, Inc. (GHD), on behalf of Cascades Containerboard Packaging, A Division of Cascades Canada ULC, is submitting the attached Institutional and Engineering Controls Certification Form for the Former NL Industries Site (Site) in Depew, New York. In addition, the annual Periodic Review Report (PRR) is provided under separate cover.

Please contact me at 716/856-2142 should you have any questions or require additional information.

Sincerely,

GHD

Katherine B. Galanti

KBG/ck/1

Encl.

cc: L. Marineau, Cascades

R. Snyder, GHD

acter B. Salanti





Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



		Site Details	Box 1	
Site	te No. C915200			
Site	te Name Former NL Industries Foun	dry		
City	e Address: 3241 Walden Avenue 2 ty/Town: Cheektowaga ounty: Erie e Acreage: 7.5	Zip Code: 14043		
Rej	porting Period: August 31, 2016 to Au	gust 31, 2017		
			YES	NÖ
1	la tha information above warranto		7	.,_
1.	Is the information above correct?		Ψ	
	If NO, include handwritten above or o	n a separate sheet.		
2.	Has some or all of the site property be tax map amendment during this Repo	een sold, subdivided, merged, or undergone a orting Period?		
3.	Has there been any change of use at (see 6NYCRR 375-1.11(d))?	the site during this Reporting Period	Ū	0
4.	Have any federal, state, and/or local for or at the property during this Repo	permits (e.g., building, discharge) been issued orting Period?		
		2 thru 4, include documentation or evidence lously submitted with this certification form.		Ŧ
5.	Is the site currently undergoing devel	opment?		
			Box 2	
			YES	NO
6.	Is the current site use consistent with Commercial and Industrial	the use(s) listed below?	a /	
7.	Are all ICs/ECs in place and function	ing as designed?		
		QUESTION 6 OR 7 IS NO, sign and date below a REST OF THIS FORM. Otherwise continue.	ind	
	Corrective Measures Work Plan must i	be submitted along with this form to address the	hese iss	ues.
AC				

			Box 2	A
	new information revealed that assumptions ment regarding offsite contamination are no lor		YES	NO
	nswered YES to question 8, include docum cumentation has been previously submitted			
	assumptions in the Qualitative Exposure Asser alitative Exposure Assessment must be certifie		0/	Б
	nswered NO to question 9, the Periodic Rev I Qualitative Exposure Assessment based of			
SITE NO. C9	15200		Вох	(3
Descripti	on of Institutional Controls			
<u>Parcel</u> 104.09-5-1	Owner Cascades, Inc.	Institutional Contro	<u>) </u>	
	•	Ground Water Use Soil Management I Landuse Restrictio Monitoring Plan Site Management I O&M Plan IC/EC Plan	olan n	ion
For details- se Environmental	ee Section 5 in the Site Management Plan, dat Easement is included in the FER in Appendix n 12/1/2009.	ed October 16, 2009] E. The Easement was recorded v	vith the E	Erie
	of groundwater use. s on property use.			
County Clerk o (i) Prohibition o (ii) Restrictions (iii) Maintenano (iv) Maintenano (i	ce of cover on the containment cell. ce of asphalt cover over trucking yard, eastern ce of concrete cover in the building and apron a			
County Clerk o (i) Prohibition of (ii) Restrictions (iii) Maintenand (iv) Maintenand (iv) Maintenand (iv) Maintenand	ce of cover on the containment cell. ce of asphalt cover over trucking yard, eastern		Вох	4
County Clerk o (i) Prohibition o (ii) Restrictions (iii) Maintenand (iv) Maintenand (v) Maintenand (v) Maintenand	ce of cover on the containment cell. ce of asphalt cover over trucking yard, eastern			: 4

Roy	Del.	
LUN	-	

	Periodic Review Report (PRR) Certification Statements
1.	I certify by checking "YES" below that:
	 a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
	 b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.
	engineering practices, and the information presented is accurate and compete. YES NO
2.	If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:
	(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
	(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.
	YES NO
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.
	Signature of Owner, Remedial Party or Designated Representative Date
	Signature of Owner, Refliedal Faity of Designated Representative Date

IC CERTIFICATIONS SITE NO. C915200

Box 6

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Richard J. Snuder, P.E. at 135 Rantan Cer print name print busin	services, the Her Pkwy Suite 5 Edison, NJ 6883 less address
am certifying as <u>Gunners Representative</u>	(Owner or Remedial Party)
for the Site named in the Site Details Section of this form.	9-23-247
Signature of Owner, Remedial Party, or Designated Representa Rendering Certification	ative Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Print name at 135 Randam Center Pkuy Edisonal Sepsonal print business address

am certifying as a Professional Engineer for the Owner (Owner or Remedial Party)

Signature of Professional Engineer, for the Remedial Party, Rendering Certification

Dwn r or Hequired for

Date

PROFESSIONAL



2017 Periodic Review Report

Former NL Industries Site NYSDEC Site No. C915200 3241 Walden Avenue Depew, New York

Cascades Containerboard Packaging, A Division of Cascades Canada ULC

GHD | 285 Delaware Avenue Suite 500 Buffalo New York 14202 11137432| Report No 1 | September 30 2017



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Figure 2.1 Site Layout

Figure 2.2 Location of Engineering Control Systems

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Appendix A Site Inspection Form

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1. Introduction

The former NL Industries facility (Site) is located at 3241 Walden Avenue in Depew, New York (Figure 1.1). The property and facility are currently owned and operated by Cascades, Inc. Remediation of the Site was completed in 2008 under the oversight of the New York State Department of Environmental Conservation (NYSDEC) in accordance with Brownfield Cleanup Agreement (BCA) Index #B9-0554-98-12, Site #C-915200. A Site Management Plan (SMP) was developed upon completion of the remedial construction to ensure implementation and management of the institutional controls (ICs) and engineering controls (ECs) in place at the Site. This Periodic Review Report (PRR) is being prepared to certify that site management activities are being conducted in accordance with the SMP.

The final remedial alternative for the Site, as described in the SMP dated October 2009, included the following components:

- 1. Excavation of impacted soils from the western section of the Site and consolidation within a containment cell constructed within the central portion of the Site.
- 2. Capping of the containment cell with imported clean fill, geo-synthetic clay liner (GCL), and soil/vegetative or asphalt cover.
- 3. Construction of a GCL and soil cover system on all non-paved areas of the containment cell (i.e., side slopes).
- 4. Construction of a GCL and asphalt cover system on all paved areas of the containment cell.
- 5. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to remaining impacted materials for the central and eastern portions of the Site.
- 6. Development and implementation of a SMP for long-term management of the ECs/ICs at the Site.

The SMP, designed to serve as a work plan for Site monitoring and maintenance, was prepared and approved by NYSDEC in December 2009.

This report presents the results of the Site inspection conducted in June 2017, and recordkeeping conducted through September 2017. Note that the groundwater monitoring is not required this year as it is being conducted on a triennial basis in accordance with the NYSDEC letter dated October 18, 2016. The report is organized as follows:

- Section 1 Introduction: The background and brief remedial history of the Site.
- Section 2 Engineering and Institutional Controls: The ECs/ICs for this Site are described.
- Section 3 Inspections and Maintenance Activities: Activities performed during the current reporting period and their results.
- Section 4 Conclusions and Recommendations: Conclusions and recommendations based upon the data and results of the current monitoring period.



2. Engineering and Institutional Controls

Engineering controls are required to protect human health and the environment because impacted fill is still present below various structures at the Site. Figure 2.1 shows the Site layout, and Figure 2.2 shows the various EC systems in place at the Site.

2.1 Engineering Controls (ECs)

The purpose of the EC systems is to eliminate the potential for human contact with fill material, prevent percolation of precipitation through the impacted fill, and eliminate the potential for contaminated runoff from the Site. The EC systems in place at the Site consist of the following

- Asphalt Only: The trucking yard within the eastern section of the Site was paved in 2004 and is covered by 4.5 inches of sub-base material and 6 inches of asphalt (4.5 inches binder coat and 1.5 inches top coat). The eastern parking lot was historically paved with asphalt for employee parking, and was repaved in August 2011. In addition, the area identified as the "rail siding area" was paved with 6 inches of asphalt (4 inches binder coat and 2 inches top coat) in August 2008.
- **Building and Apron Concrete**: The concrete floor of the existing building and exterior concrete pads/aprons are believed to be a minimum of 6 inches in thickness.
- GCL and Soil: All non-paved areas (side slopes) of the containment cell are covered by approximately 12 inches of clean soil underlain by a GCL covering with a 6-inch sand layer between the GCL and impacted fill. All exposed environmentally clean soil/fill has been hydro-seeded as an erosion control methodology.
- GCL and Asphalt: All paved areas of the central section containment cell are covered by 6 inches of asphalt (4 inches binder coat and 2 inches top coat) underlain by 12 inches of clean fill, followed by a GCL covering with a 6-inch sand layer between the GCL and the impacted fill.

2.2 Institutional Controls (ICs)

The purpose of the ICs is to:

- Implement, maintain, and monitor the ECs.
- Prevent future exposure to remaining on-Site contamination by controlling disturbance of the subsurface contamination.
- Limit the use and development of portions of the Site to industrial uses only.

The ICs that have been established for the Site must be:

- In compliance with the Environmental Easement and the SMP by the Grantor (currently Norampac, Inc.) and the Grantor's successors and assigns.
- Operated and maintained as specified in the SMP.
- Inspected at a frequency and in a manner defined in the SMP.



Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP.

Adherence to the ICs is required by the Environmental Easement. The ICs may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

In addition, the Site has a series of ICs in the form of site restrictions as required by the Environmental Easement. Site restrictions that apply to the Site are:

- The central and eastern portions of the property may only be used for commercial/industrial purposes provided that the long-term ECs/ICs included in the SMP are employed.
- The central and eastern portions of the property may not be used for a higher level of use, such as unrestricted or restricted residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC.
- All future activities on the property that will disturb remaining impacted material must be conducted in accordance with the SMP.
- The Site owner or remedial party will submit to the NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.
- The groundwater beneath the central and eastern sections of the property may not be used for potable or non-potable purposes.

Inspections and Maintenance Activities

A comprehensive Site-wide inspection is required to be conducted annually, as specified in the SMP. The intent of the annual inspection is to determine whether:

- The ECs continue to perform as designed
- The ECs continue to be protective of human health and the environment
- The Site is operated and maintained in compliance with the SMP and Environmental Easement
- The remedial performance criteria have been achieved
- Sampling and analysis of appropriate media were conducted
- Site records are complete and current
- Changes to the remedial systems or monitoring are needed

The inspection was performed by GHD personnel in accordance with the requirements of the SMP.

The annual comprehensive Site inspection was conducted on June 7, 2017. The following sections discuss the findings of the 2017 inspection. The completed Site Inspection Form is provided as Appendix A to this report.



3.1 Asphalt-Only Cover System

The three areas of asphalt-only cover consist of the Trucking Yard (west of the main building), Parking Lot (east of the main building), and Former Rail Siding (south of the main building) as shown on Figure 2.2. The areas of asphalt only cover were visually inspected for cracks and deterioration.

3.1.1 Trucking Yard

The asphalt surface in the trucking yard generally appeared in satisfactory condition. Some minor surficial cracking is present; however, these cracks do not impact the integrity or effectiveness of the cover. Larger cracks (greater than 0.25 inch in width) that were sealed in 2015 remain in good condition. Sealing of minor cracks will be addressed as part of routine maintenance to prevent further deterioration. The test pit locations excavated in 2009 were repaved in 2011 and remain in good condition. Photos of the trucking yard are provided in Appendix B.

3.1.2 Parking Lot

The Parking Lot was repayed in 2011 and is generally free of cracks and deterioration. Photos of the pavement are provided in Appendix B.

3.1.3 Former Rail Siding

The asphalt cover on the Former Rail Siding was generally free of cracks and deterioration and appeared in good condition, although the presence of staged inventory within the area inhibited full inspection. Photos of the pavement are provided in Appendix B.

3.1.4 Corrective Action

No corrective action is necessary for the asphalt-only cover system at this time.

3.2 Building and Apron Cover System

The building floor slab and apron concrete were visually inspected for cracks and deterioration. Shallow cracks are present on some areas of the apron; however, these cracks do not penetrate the full thickness of the apron slab and do not impact the effectiveness of the cover. These areas will be addressed as part of routine maintenance. Damaged areas identified in 2015 were patched with asphalt and tar sealant and remain in generally good condition. The need for more permanent repair/replacement will be evaluated again in 2018. Photos of the concrete are provided in Appendix B.

No corrective action is necessary for the building and apron concrete cover system at this time.

3.3 GCL and Soil Cover System

The GCL and soil cover system was visually inspected as part of the annual comprehensive Site inspection. No areas of subsidence, erosion, or exposed GCL were observed. At the time of the inspection, the grass was approximately 2 to 4 inches in length and was regularly maintained throughout the year. Photos of the GCL and soil cover are provided in Appendix B.



Corrective action is not necessary for the GCL and soil cover system at this time.

The GCL and asphalt cover system was visually inspected as part of the annual comprehensive Site inspection. No areas of subsidence or exposed GCL were observed. Minor surface indentations caused by tractor-trailer supports were noted in the asphalt, consistent with past years. The indentations were approximately 0.25 to 0.5 inch in depth, but do not affect the integrity of the cap. Photos of the GCL and asphalt cover are provided in Appendix B.

No corrective action is necessary for the GCL and asphalt cover system at this time.

3.4 Retention Pond

The retention pond was inspected as part of the annual comprehensive Site inspection. Approximately 6 inches of standing water was present in the center of the pond, as the water level was below the invert of the outflow pipe. Although vegetation was cut in 2015, significant plant growth is present within the pond, primarily invasive phragmites. No other debris was observed and the outlet pipes are open. No evidence of erosion was observed along the banks of the pond.

No corrective action is necessary with regard to vegetation growth within the pond.

A gate was installed at the southeast corner of the pond fence enclosure in June 2011 to allow access for mowing and maintenance. The gate is locked to prevent unauthorized access. Photos of the retention pond are provided in Appendix B.

3.5 Fencing

The fencing was inspected as part of the annual comprehensive site inspection. Damage to fence posts and rails was observed at two areas on the south fence. Although the chain link has not been breached, the posts and rail will be addressed as part of routine maintenance to prevent further deterioration or damage to the fence. The fence north of the Site along Walden Avenue was constructed with braided wire rather than a top support pole. At the time of the inspection, the wire provided sufficient support for the fence. Photos of the fencing are provided in Appendix B.

3.6 Vegetative Cover

The vegetative cover was inspected as part of the annual comprehensive site inspection. No areas of distressed vegetation, invading species, or woody growth were observed. Photos of the vegetative cover are provided in Appendix B.

4. Groundwater Monitoring

The 2016 PRR included a recommendation to reduce the frequency of groundwater monitoring from annual to triennial. The NYSDEC agreed with the recommendation in a letter to Cascades, Inc. dated October 18, 2016. The next groundwater sampling event will be in 2019.



Conclusions and Recommendations

The annual inspection and monitoring activities performed during this reporting period found that:

- Monitoring wells at the Site are in good condition.
- The asphalt-only cover system is generally in good condition with continued routine maintenance.
- Areas of the building and apron concrete cover system that were patched with asphalt and tar
 in 2015 remain in generally good condition. Some minor cracking and deterioration of the
 building and apron cover system was observed and requires general maintenance.
- The GCL and soil, and GCL and asphalt cover systems are generally in good condition with no deficiencies noted.
- Two areas of the perimeter fencing require repair.

Based on these observations, it is concluded that the remedial action continues to be effective.

Certification

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction.
- Except as indicated in this report, the institutional controls and/or engineering controls
 employed at this Site are unchanged from the date the control was put in place, or last
 approved by the Department.
- Nothing has occurred that would impair the ability of the control to protect the public health and environment.
- Nothing has occurred that would constitute a violation or failure to comply with the SMP for this
 control.
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control.
- Use of the Site is compliant with the environmental easement.



- The engineering control systems are performing as designed and are effective.
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program.

PROFESSIONAL

The information presented in this report is accurate and complete.

Richard J. Snyder, P.E.

GHD Consulting Services, Inc.

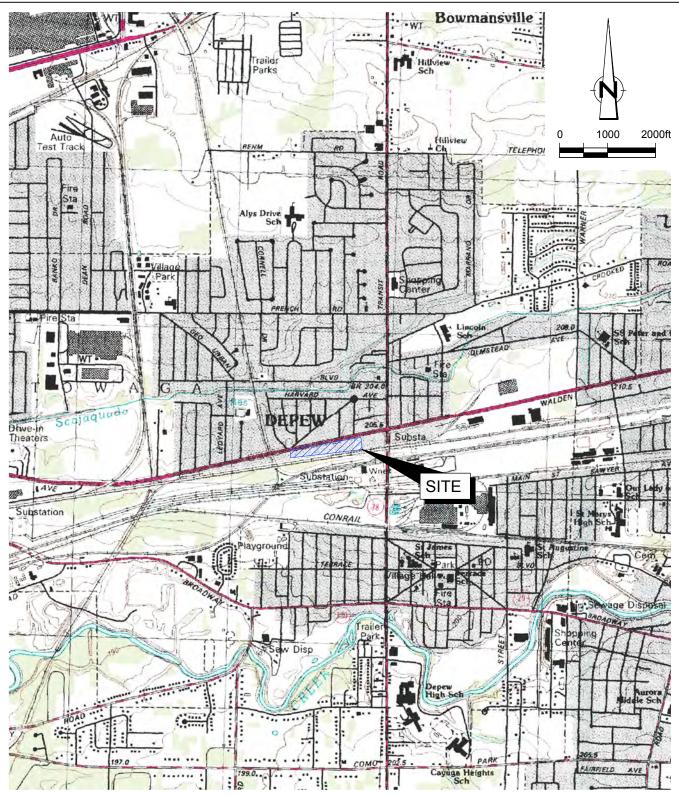
135 Raritan Center Parkway, Suite 5

Edison, New Jersey 08837-3265

Date:

GHD | 2017 Periodic Review Report | 11137432 (1) | Page 7

Figures



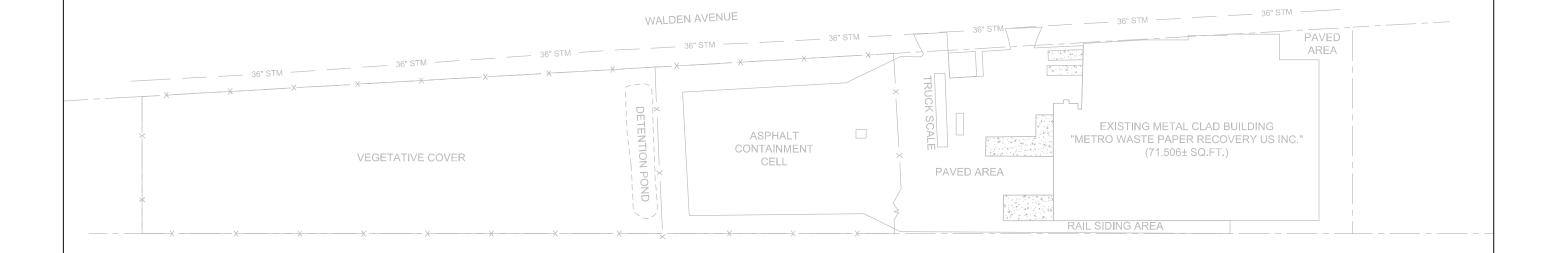
SOURCE: USGS QUADRANGLE MAP: LANCASTER, NEW YORK

figure 1.1

GHD

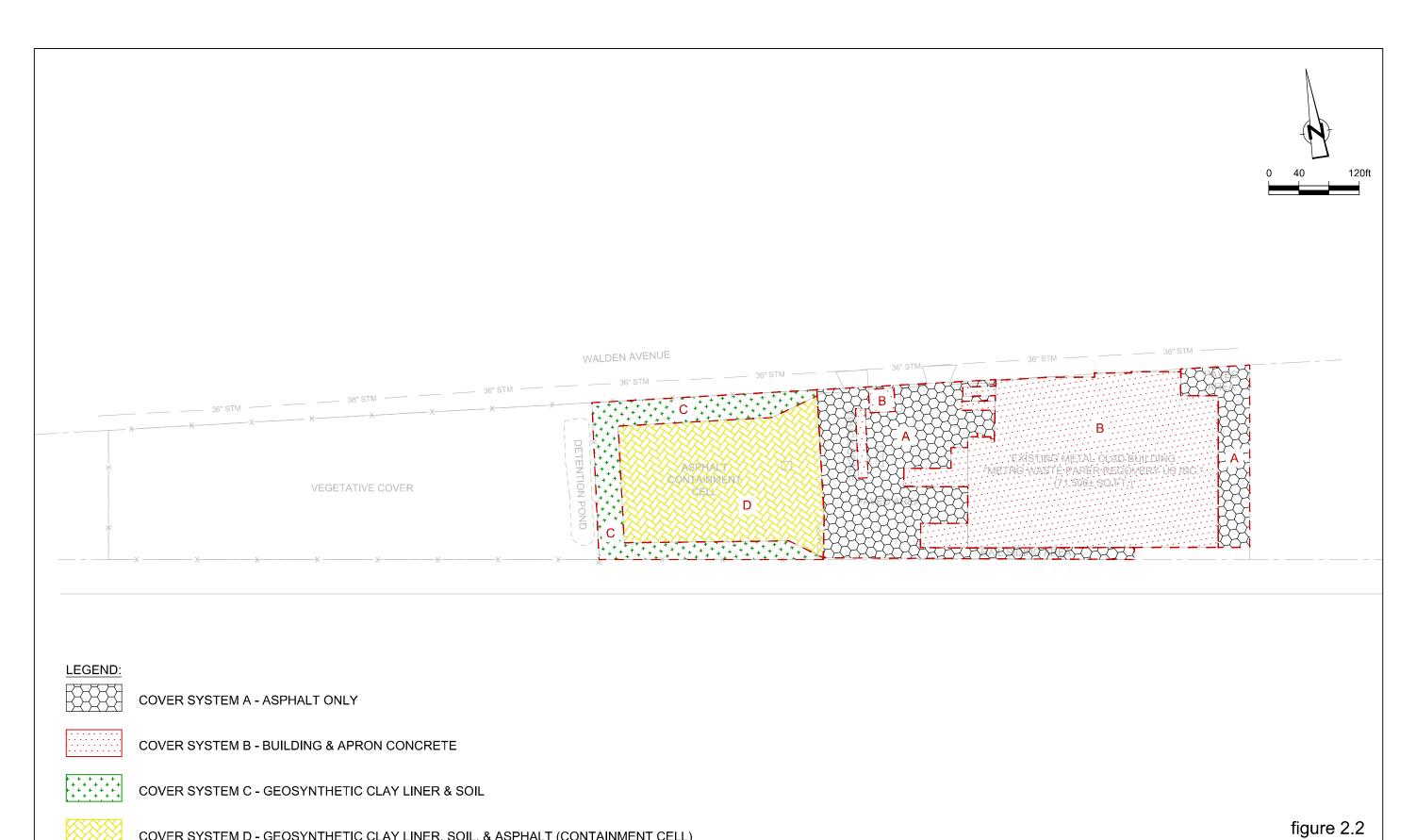
SITE LOCATION MAP FORMER N.L. INDUSTRIES SITE REMEDIATION 3241 WALDEN AVENUE Depew, New York







SITE LAYOUT FORMER N.L. INDUSTRIES SITE REMEDIATION 3241 WALDEN AVENUE Depew, New York



COVER SYSTEM D - GEOSYNTHETIC CLAY LINER, SOIL, & ASPHALT (CONTAINMENT CELL)

LOCATION OF ENGINEERING CONTROL SYSTEMS FORMER N.L. INDUSTRIES SITE REMEDIATION 3241 WALDEN AVENUE Depew, New York

SOURCE: DRAWING FILE (MWL-126254-01.dwg) FROM TIGHE & BOND (MIDDLETOWN, CONNECTICUT)

Appendices

Appendix A Site Inspection Form

Former N.L. Industries 3241 Walden Avenue Depew, NY Page 1 of 5 Name of Inspector: Date of Inspection: The purpose of this inspection is to monitor the overall integrity of the containment cell, the site wide paving and the building foundation. Please take photographs from all four sides of the containment cell cap, as well as the asphalt pavement and building foundation to document the existing conditions of the consolidated soil area, erosion control technologies in place, and the immediate surrounding area each week. Please fill out the following inspection items. If at any time impacted fill material has been exposed, please notify the Project Manager listed in the SMP immediately. **Monitoring Well Network** Condition of Monitoring Wells Good Fair Needs Repair Details MW-101 VISUAL inspection only MW-102 MW-103 MW-104 MW-105 MW-106 MW-99-01 **Asphalt Only Cover System** Are there any obvious areas of damage to the asphalt in the trucking yard? YES NO If yes, please describe No damage Sealing and maintenance Should

Former N.L. Industries 3241 Walden Avenue Depew, NY

Page 2 of 5

Asphalt Only Cover System

Are there any obvious areas of damage to the asphalt in the parking lot?	
YES NO D If yes, please describe minor divets & Scrapes	
but no Structural or coverage issues.	
Are there any obvious areas of damage to the asphalt in the former rail siding area	?
YES NO NO If yes, please describe	
Building and Apron Concrete Cover System	
Are there any obvious areas of damage to the building's foundations?	
YES NO NO If yes, please describe	
Are there any obvious areas of damage to any concrete pads?	
YES NO I If yes, please describe Several areas of Shalla	١
cracked concrete on aprens, maintenance and sea	
Shared be conducted. Notable areas ove between	
42 + 3/4 and the Pad at 3/4 GCL and Soil Cover System	
Are there any signs of soil run-off or erosion on the sides of the containment cell?	
Are there any signs of soil run-off or erosion on the sides of the containment cell? YES NO If yes, please describe	

Former N.L. Industries 3241 Walden Avenue Depew, NY

Page 3 of 5

GCL and Soil Cover System

las the grass approving season?	ppeared to have been mowed at a regular basis during the previo
res 🖬 no 🗖	If yes, please describe Grass height & 2"to 4"
	oody types plants growing within the this Cover System? If yes, please describe
	alt Cover System
	ovious areas of damage to the asphalt within this cover system? If yes, please describe

Former N.L. Industries 3241 Walden Avenue Depew, NY

Page 4 of 5

Pond Pond
Is there standing water in the retention pond?
YES NO If yes, approximately how much? 6" +0 12"
Is there any debris within the retention pond?
YES NO If yes, please describe
Is the inlet and outlet of the retention pond free of debris? YES NO I If no, please describe water level is below inlet (autlet
Is there any sign of erosion along the banks of the retention pond? YES NO If yes, please describe
Vegetatives Is there any sign of distress, disease or die off of the vegetatives associated with the cover systems? YES NO If yes, please describe

Former N.L. Industries 3241 Walden Avenue Depew, NY

Page 5 of 5

Fencing

Is there signs of damage to the fencing around the r of the environmental easement?	etention pond or within the area
YES NO If yes, describe location and exten	t of damage
Is there signs of frost heaving within the supports of	the fencing?
YES NO If yes, please describe South on South Stepe along trace be repaired reset	of truck yard and les posts need to
Is the chain link still attached to support poles at all pond or within the area of the environmental easem YES NO If no, please describe	ent?
Is there any sign of erosion along the banks of the r	etention pond?
YES NO If yes, please describe	
Please describe any changes to the overall area since	e the last inspection
The area is generally the mspection except as noted	same as the last

Appendix B Photographs



Photo 1 – Parking lot looking west along north side of office.



Photo 2 – Parking lot looking south.



Photo 3 – Former rail siding looking east.



Photo 4 – Building Apron Concrete System (north end of building) looking east.



Photo 5 – Building Apron Concrete System (south end of building) looking east.



Photo 6 – Trucking Yard looking south-southwest.



Photo 7 – Trucking Yard looking north.



Photo 8 – GCL and Soil Cover System looking east along north slope.



Photo 9 – GCL and Soil Cover System looking south along west slope.



Photo 10-GCL and Soil Cover System looking east along south slope.



Photo 11 – GCL and Soil Cover System looking west along south slope.



Photo 12 – South end of retention pond enclosure.



Photo 13 – Looking northwest across retention pond.



Photo 14 – Retention pond outlet pipes in northeast corner.



Photo 15 – GCL and Asphalt Cover System looking northeast across cap.



Photo 16 – GCL and Asphalt Cover System looking southeast across cap.



Photo 17 – Damaged fence along southern truck yard.



Photo 18 – Damaged fence along southern slope of GCL Area.