Panamerican Environmental, Inc. 2390 Clinton Street Buffalo, New York 14227 Tel: (716) 821-1650 Fax: (716) 821-1607



August 14, 2017

Mr Glenn May NYSDEC Division of Environmental Remediation, Region 9 270 Michigan Avenue Buffalo, NY 14203-2915

Re: Excavation Work Plan (EWP) - NYSDEC BCP Project – 600 River Road Site, Site # C932161

Dear Mr May

Please find attached the EWP (PDF copy) related to site re-development for the above referenced site for your review and approval.

Sinderely,

John B. Berry P E. Panamerican Environmental, Inc.

Cc: Lou Visone Tom Celik Pete Gorton Jason Brydges



Panamerican Environmental, Inc.

2390 Clinton St. Buffalo, NY 14227 Ph: (716) 821-1650 Fax: (716) 821-1607



Brydges – environment, engineering, energy

33 Washington Highway Amherst, NY 14226

#### **SMP EXCAVATION WORK PLAN**

For

### 600 RIVER ROAD SITE

## NYSDEC SITE # C932161 600 RIVER ROAD SITE NORTH TONAWANDA, NEW YORK 14120

**Prepared For:** 

Rock One Development, LLC 10151 Main Street Clarence, New York 14031

**Prepared by:** 

Panamerican Environmental, Inc. 2390 Clinton Street Buffalo, New York 14227 And Brydges – environment, engineering, energy 33 Washington Highway Amherst, NY 14226

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**AUGUST 2017** 

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#### LIST OF DRAWINGS/PLANS

-Civil Site Development Phase 1 Construction Plans -Phase 1 Construction SWPPP Disturbance Map

#### ATTACHEMENT

Off-site Materials Source Information

#### 1.0 INTRODUCTION

This document presents details of the excavation work plan (EWP) required by the SMP for any activity that is anticipated to encounter remaining contamination at the 600 River Road site (C932161). Notification was sent to Mr. Brian Sadowski by email on August 4, 2017 that construction activity for the next phase of development at the site was anticipated to begin in approximately 15 days (August 21, 2017).

The site is located at 600 River Road, North Tonawanda, New York. Rock One Development, LLC (owner) entered into a Brownfield Cleanup Agreement with the NYSDEC to remediate the site under New York's Brownfield Cleanup Program (BCP).

The remediation action (RA) at the site included: the removal of the surface topsoil layer and stockpiling the material that meets Restricted Residential SCOs for future use as part of the soil cover; cover the site with two feet of clean fill (soil cap) from approved off-site sources; and placement of a geotextile liner between the site original grade and the soil cap. An as-built figure of the final cap is provided in the SMP and the civil plans for the new construction are attached to this EWP.

#### WORK TO BE PERFORMED

## SITE IMPROVEMENTS INCLUDING PARKING LOTS, DRIVEWAYS & BUILDINGS

• Certified NYSDOT Stone will be imported from LaFarge Stone and/or New Enterprise Stone & Lime (see Section 11.0 for details) and placed, balanced, and compacted above the existing stone/clay cap throughout the project site to stabilized surfaces for asphalt paving, concrete sidewalk, and building pad areas. This does not include any work beneath the existing stone stabilized surfaces or delineation barrier. Building pads and parking lots had been previously prepped and stabilized as part of SWPPP maintenance.

• The building foundation excavation will not include any penetration into the delineation barrier. All excavated clean materials will be used as backfill, as necessary.

## UTILITY IMPROVEMENTS INCLUDING STORM, SANITARY, AND WATER LINES

• Installation of the site's storm sewer system will consist of trenching into the existing two-foot clay cap, above the delineation barrier, placing storm sewer pipe and backfilling/compacting with stone. The excess clean clay cap materials will be placed and compacted as necessary on site.

• NYSDOT's Right of Way utility work will entail installing and tapping the waterline and sanitary sewer line across River Road adjacent to the project site and will not involve any work within the project site or it's two-foot clay cap.

• The installation of the sanitary sewer and waterline on-site will include work beneath the clay cap and delineation barrier; it will be the only area on-site where the existing soils beneath the delineation barrier will be disturbed. For this work, the topsoil layer will be striped and stockpiled for re-spreading at the sewer & water line areas upon completion. The clean clay cap barrier will then be removed and material stockpiled alongside the utility trenches. Trenching will then proceed to the required grades and any excavated material from below the cap will be stockpiled separate from the clean cap material. The utilities will be installed and backfilled with soils excavated from below the delineation barrier level. The delineation barrier will be placed over the delineation barrier to restore the cap. See Section 3 for screening of materials. An estimated 200 C.Y. of soil will be excavated beneath the delineation barrier.

• Any excess material from the excavation below the cap not used as utility backfill as noted above will be placed beneath the existing demarcation and cap layer outside any proposed building foundations or paved areas. The cap would be replaced and grade would be adjusted in this area.

The entire construction process will follow the project's health and safety plan as provided in Appendix G of the SMP as well as in compliance with this excavation work plan and 29 CFR 1910.120.

#### **SCHEDULE**

Construction Task	Start Date	Approximate Duration
1 -Initial Site Setup and	08/09/2017	1 Week
Staging including Survey and		
Layout		
2 -D.O.T. R.O.W. Sanitary	08/14/2017	1 Month
Sewer and Waterline Work		
3 -Installation of On-Site Storm	08/21/2017	1 Month
Sewer, Sanitary Sewer, and		
Waterlines		
4 -Building Foundation	09/04/2017	2 Months
Construction		
5 -Building Construction	10/02/2017	12 Months
6 -Asphalt Paving and Site	08/01/2018	1 Month
Concrete		
7 -Site Landscaping	09/01/2018	1 Month
8 -Phase 1 Completion	10/01/2018	-

#### 2.0 REMAINING CONTAMINATION

Contaminants remaining below the two feet of clean soil cover include radioactive slag and soils impacted with heavy metals and SVOCs (primarily PAHs) that exceed restricted residential SCOs. The dose assessment modelling using the measured radiation levels of the slag material indicated that with two feet of soil fill (soil cap) placed over the entire, site radiation dosage levels above the two feet of fill from the subsurface slag material would more than meet NYSDEC DER 38 dosage guidance values. A geotextile demarcation layer was placed at the surface of the existing soils prior to placement of the two foot clean fill layer.

#### 3.0 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (dust meter and gamma scintillation system) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially impacted material. Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

During installation of site infrastructure (i.e., water and sewer systems), construction activities will be surveyed as necessary for the presence of low activity naturally occurring radioactive material (NORM) using a gamma scintillation system (e.g. meter and detector) and a dose meter. If any NORM is encountered, then the following provisions will be instituted:

- If NORM waste above twice background levels requires removal from the subsurface, then it will be segregated on 10 mil polyethylene and isolated from all other material.
- If NORM waste does not require removal, then installation of the requisite infrastructure will continue as designed.
- In both circumstances, it will be ensured that no NORM enters any piping or other infrastructure appurtenances during construction.
- Once the piping systems are completed, all pathways for the NORM waste to enter the water or sewer systems will be discontinued.

Any NORM waste that is segregated during construction activities will be adequately packaged, transported and disposed at an out of State facility that is licensed to accept such material.

#### 4.0 SOIL STAGING METHODS

Soil stockpiles will be encircled with a berm or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

#### 5.0 MATERIALS EXCAVATION

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation of all material.

The owner of the property and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

If any impacted material needs to leave the site the Loaded vehicles will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

#### 6.0 MATERIALS TRANSPORT OFF-SITE

If excavated materials need to be transported off-site the transport will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

#### 7.0 MATERIALS DISPOSAL OFF-SITE

Any material excavated from below the cap that is required to be removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

#### 8.0 MATERIALS REUSE ON-SITE

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within a cover soil layer. Any excess contaminated material excavated from below the cover system which cannot be returned to the excavation shall be properly disposed as described in Section 7 above.

#### 9.0 FLUIDS MANAGEMENT

If any liquids are to be removed from the site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under the SPDES permit which is provided in Appendix I of the SMP.

#### 10.0 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the RAWP and decision document. The existing cover system is comprised of a minimum of 24 inches of clean soil, asphalt pavement, concrete covered sidewalks and concrete building slabs. The demarcation layer, consisting of orange geotextile or equivalent material will be replaced to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

#### 11.0 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in the SMP prior to receipt at the site. Two inch run-a-crush (ROC) stone material will be imported from one or both of two sites and be used as described in the Work to be Performed section of Section 1. The stone material to be used meets the SMP requirement of Rock or stone, consisting of virgin material from a permitted mine or quarry may be imported for use as backfill, without chemical testing provided it contains less than 10% by weight of material which would pass through a size 200 sieve.

The NYSDOT permitted facilities are as follows and a description of the material to be is attached to this EWP:

- LaFarge Plant 400 Hinman Road, Lockport, NY 14094 NYS Source Number 5-5R.
- New Enterprise Stone & Lime Co Inc. 500 Como Park Blvd., Buffalo, NY 14227-NYS Source Number 5-3R-Wehrle Drive Plant.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

#### **12.0 STORMWATER POLLUTION PREVENTION**

A Stormwater Pollution Prevention Plan (SWPPP) exists for this site and is presented in the SMP Appendix I.

For Phase 1 construction, a SWPPP disturbance map is attached to this EWP.

#### 13.0 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.



# 600 RIVER ROAD

# CITY OF NORTH TONAWANDA, NIAGARA COUNTY, NEW YORK



SHEET NO. DRAWING NO. DESCRIPTION

11

LOCATION MAP





## METZGER CIVIL ENGINEERING, PLLC

## SCHEDULE OF DRAWINGS:

CS-1 SV-1 RP-1 SP-1 GD-1 SW-1 ESC-1 LP-1 D-1 D-2 D-3	COVER SHEET BOUNDARY AND TOPOGRAPHICAL SURVEY RECORD PLAN (EXISTING TOPOGRAPHY MAP) SITE PLAN DRAINAGE AND GRADING PLAN SANITARY AND WATER PLAN EROSION AND SEDIMENT CONTROL PLAN LANDSCAPE PLAN SITE & STORMWATER DETAILS WATER & RPZ DETAILS SANITARY DETAILS









Designed By: JCM	DUMPSTER & GRADING	06-30-17	JCM/ARH	M MFT7GFR	
Drawn By:	GRADING REVISIONS	06-16-17	JCM/ARH		
Checked By:	CLUBHOUSE REVISIONS	03-21-17	JCM/ARH		
Cad File:	FIRE DEPARTMENT COMMENTS	03-09-17	JCM/ARH	ENGINI	LERING, PLLC
M-1314	FIRE LANE	02-15-17	JCM/ARH	8245 SHERIDAN DRIVE	CIVIL ENGINEERING
NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS	BLDG RELOCATION & POOL	01-12-17	JCM/ARH	WILLIAMSVILLE, NY 14221	LAND PLANNING
A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK	BUILDING RELOCATION	05-25-16	JCM/ARH	PH: 716-633-2601	SITE DESIGN
STATE EDUCATION LAW	REVISIONS	DATE	ВҮ/СК	FAX: 716-633-2704	MUNICIPAL ENGINEERING







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(C) 2017 Metzger Civil Engineering

Designed By: JCM Drawn By: JCM Checked By: MJM				METZGER CIVIL ENGINI	EERING, PLLC
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		OLTY OF NORTH TONAWANDA	JOB NO:		M-1314
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Checked By:	CLUBHOUSE REVISIONS	03/21/17	JCM/ARH		
Cad File:	FIRE DEPARTMENT COMMENTS	03/09/17	JCM/ARH	TE ENGINI	LERING, PLLC
M-1314	FIRE LANE	02/15/17	JCM/ARH	8245 SHERIDAN DRIVE	CIVIL ENGINEERING
NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS	BLDG RELOCATION & POOL	01/12/17	JCM/ARH	WILLIAMSVILLE, NY 14221	LAND PLANNING
A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK	BUILDING RELOCATION	05/25/16	JCM/ARH	PH: 716-633-2601	SITE DESIGN
STATE EDUCATION LAW	REVISIONS	DATE	BY	FAX: 716-633-2704	MUNICIPAL ENGINEERIN

![](_page_22_Picture_0.jpeg)

Daniel Thomas 400 Hinman Rd. Lockport, NY 14094 716-260-6017 (cell) 716-433-4930 (fax)

8/9/17

Visone

#### Att: Re: 600 River Road Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for 2" ROC NYSDOT Select Granular Fill item 203-07

Location:	Lockport	Source No.	5 5D
Matorial Tuna	011 000	obuice No.	0-0K
material Type.	2 RUC	Test No.	17AR31

Sieve Size	Weight	% Ret	% Pass	Spec
2"	0.0	0.0	100.0	100
1 1/2"	506.1	4.2	95.8	
1"	1337.6	11.1	84.7	
3/4"	807.4	6.7	78.0	
1/2"	2120.8	17.6	60.4	
1/4"	2144.9	17.8	42.6	
1/8"	1470.1	12.2	30.4	
#20	1759.3	14.6	15.8	
#40	349.5	2.9	12.9	0-70
#80	421.8	3.5	9.4	
#200	216.9	1.8	7.6	0-15
pan	915.8	7.6		0.0
Total	12050.0			and the second

Sincerely,

the

Daniel Thomas Quality Control Lafarge A&C

![](_page_23_Picture_0.jpeg)

Daniel Thomas 400 Hinman Rd. Lockport, NY 14094 716-260-6017 (cell) 716-433-4930 (fax)

8/9/17

Visone

#### Att: Re: 600 River Road Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for Clear #2 Stone

Location:	Lockport	
Material Type:	#2 Stone	

Source #: 5-5R Test No. 17AR31

Sieve Size	Weight	% Ret	% Pass	Spec
1 1/2"	0.0	0.0	100.0	100
1"	59.0	5.7	94.3	90-100
3/4"	311.7	30.1	64.2	00 100
5/8"	294.1	28.4	35.8	
1/2"	275.5	26.6	9.2	0-15
3/8"	78.7	7.6	1.6	0 10
1/4"	3.1	0.3	13	
pan	13.5	1.3		
Total	1035.7			

Sincerely,

X/ V

Daniel Thomas Quality Control Lafarge AC&A

CONSTRUCTION MATERIALS / NORTHERN DIVISION PO Box 510 ~ 400 Hinman Road, Lockport, New York 14094 Office: (716) 439-1300 Fax: (716) 439-9447

![](_page_24_Picture_0.jpeg)

**Daniel Thomas** 400 Hinman Rd. Lockport, NY 14094 716-260-6017 (cell) 716-433-4930 (fax)

8/9/17

Visone

Re: 600 River Road Email:

To whom it may concern:

This is to certify that the material being supplied to the above project conforms to the outlined NYSDOT requirements for Section 703-02 Coarse Aggregate. Below is a gradation for NYSDOT Clear #1's

Location: Lockport Material Type: NYSDOT #1 Stone

Source No. 5-5R Test No. 17AR31

Sieve Size	Weight	% Ret	% Pass	Spec
1"	0.0	0.0	100.0	100
3/4"	0.0	0.0	100.0	
1/2"	280.3	3.2	96.8	90-100
3/8"	3739.8	42.7	54.1	
1/4"	3879.9	44.3	9.8	0-15
#4	648.1	7.4	2.4	
#8	113.9	1.3	1.1	
pan	96.3	1.1		
Total	8758.3			

Sincerely.

1

**Daniel Thomas** Quality Control Lafarge AC&A

CONSTRUCTION MATERIALS / NORTHERN DIVISION PO Box 510 ~ 400 Hinman Road, Lockport, New York 14094 Office: (716) 439-1300 Fax: (716) 439-9447

![](_page_25_Picture_0.jpeg)

#### New Enterprise Stone & Lime Co., Inc.

500 Como Park Boulevard • Buffalo, New York 14227 • Office: 716-826-7310 Fax: 716-826-1342

August 9, 2017

Mr. Tom Celik VisoneCo. Site Development LLC 10151 Main Street Clarence, NY 14031

Re: 600 River Road

Dear Tom:

We certify the aggregates we supply on the subject project meet the New York State Department of Transportation Specification and Gradations as follows:

Item #304.12 // -2" Crusher Run		
Sieve Size	Percent Passing	<b>Specifications</b>
2"	100	100
1/4"	33	25-60
No. 40	8	5-40
No. 200	4	0-10

Item #703.0201 // #1 Crushed Stone			
Sieve Size	Percent Passing	<b>Specifications</b>	
1"	100	100	
1/2"	94	90-100	
1/4"	8	0-15	

Item #623.12 // #2 Crushed Stone			
Sieve Size	Percent Passing	<b>Specifications</b>	
1 1/2"	100	100	
1"	94	90-100	
1/2"	8	0-15	

Our New York State Source Number at the Wehrle Drive plant is 5-3R.

We trust this meets with your approval.

Very truly yours,

Bob Warrington Account Representative

CR: DJ