Tank Removal Plan
for
Operable Unit 3/Site 108

Prepared for:

Tonawanda Coke Corporation
3875 River Road
Tonawanda, New York 14150

September 2018

Prepared by:

NEU-VELLE LLC

1667 Lake Avenue
Building 59, Suite 101
Rochester, New York 14615

PROFESSIONAL ENGINEER CERTIFICATION

TANK REMOVAL PLAN

Tonawanda Coke Corporation
Operable Unit 3/Site 108
Tonawanda, New York

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Engineer: Albert G. Lyons, Jr

Signature: Albert G Lyons

Registration Number: 074710

Date: 9/28/18

STATE OF NEW YORK
ALBERT G. LYONS, JR.
EXCELSIOR
074710
LICENSED PROFESSIONAL ENGINEER

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Table of Contents

1.0 INTRODUCTION 1

2.0 TANK REMOVAL & REMEDIAL ACTIVITIES 3

3.0 MATERIAL MANAGEMENT 10

4.0 SITE RESTORATION AND REPAIRS 12

5.0 REPORTING 13

APPENIDIX A – SITE PLAN

APPENDIX B – PROCESSED MATERIAL ANALYTICAL DATA SUMMARY

APPENDIX C – PROCESSED MATERIAL ANALYTICAL DATA REPORT

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Section 1

Introduction

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1.0 INTRODUCTION

1.1 General

This Tank Removal Work Plan (Work Plan) has been prepared by NEU-VELLE LLC (NEU-VELLE), on behalf of Tonawanda Coke Corporation (TCC), in connection with its facility located at 3800 River Road in Tonawanda, New York (the Site), and the Department-approved Tar Removal and Tank Demolition Phased Interim Remedial Measure Pilot Project Work Plan, dated January 20, 2017 (the IRM Work Plan). This Plan specifies activities that will be performed in furtherance of the Department-authorized management and recycling of tar-like materials and activities during the removal of the tanks at the Site.

This work plan presents the planned activities to effectively remove the tank systems and tar-like residual materials in the tanks and within the earthen berm containment area, management of material previously generated at the site, and site restoration. In addition, procedures have been developed to protect safety and health and to insure that ground or surface water contamination will not occur as a result of the project activities.

All work will be conducted in a manner to ensure compliance with 40 CFR Part 262 for management of materials to be managed off-site. This will include at a minimum:

1. Container Management

    a. All containers used will be marked in accordance with 40 CFR 262.34(a)(2) and 40CFR 262.34(a)(3).

    b. All containers will be inspected in accordance with 40 CFR 265.174

2. Accumulation Time Limit (40 CFR 262.34)

    a. Material generated as part of this project that will not be re-used or recycled will not be accumulated (stored following characterizations) on-site for more than 90 days.

3. Contingency Plan 40 CFR 265 Subpart D

    a. To insure compliance with 40 CFR 265, a contingency plan has been developed for the project. The contingency plan is designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.

4. Personnel Training 40 CFR 265.16

    a. Personnel associated with this project will successfully complete a program of classroom instruction or on-the-job training that teaches them

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to perform their duties in a way that ensures the facility's compliance with the requirements of 40 CFR 265.

1.2 Purpose and Organization of Report

This report presents the general design and proposed implementation requirements for the removal of the tanks and contents at the site.

- Section 1 - Introduction
- Section 2 - Tank Removal & Remedial Activities
- Section 3 - Material Management
- Section 4 – Site Restoration and Repairs
- Section 5 - Reporting

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Section 2

NEU-VELLE LLC

Tank Removal & Remedial Activities

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2.0 TANK REMOVAL & ASSOCIATED ACTIVITIES

2.1 General

This section presents the activities associated with removing the tanks from the site. The project includes the removal of the contents from three aboveground storage tank systems, removing the tank systems, and the excavation and management of residual tar-like materials in the area of the tank systems (i.e., within the secondary containment area). The project will be performed by a qualified remedial contractor and include at a minimum the following activities. A detailed description of each activity follows.

- Site Control;
- Mobilization;
- Temporary soil erosion and storm water controls;
- Material Staging;
- Storage tank(s) cleaning/removal;
- Excavation of residual tar-like materials;
- Decontamination procedures;
- Field documentation; and
- Worker Contamination Prevention.

A detailed description of each activity follows.

2.2 Site Control

Prior to mobilization on site, the project area will be made secure from unhindered and unlimited access by unauthorized personnel. This will be accomplished by the installation of appropriate barriers (i.e., barrier tape, concrete barriers, fencing, cones, rope, etc.). Tonawanda Coke will provide and maintain security and personnel identification at all times during the project. Only authorized vehicles will be allowed in the project area.

2.3 Mobilization

Excavation/tank removal equipment and materials, including a loader, excavator, shear, dump truck, vacuum truck, etc., required for tank cleaning and removal activities will be mobilized and staged at the site in the vicinity of the project area. Additionally, a decontamination facility and generated materials storage area will be constructed to be used during the tank removal activities.

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2.4 Temporary Soil Erosion and Stormwater Controls

Prior to the start of the tank removal activities, temporary erosion control and stormwater management structures will be installed at the site to control surface-water run-on and to minimize the potential for erosion and migration of tank contents and other residual tar-like materials during project activities. Soil erosion and storm-water run-off structures will be installed, operated, and inspected in accordance with "New York Guidelines for Urban Erosion and Sediment Control". Storm-water and erosion controls will include the following:

- Silt fence and hay bales around excavation areas;
- Temporary storm-water diversion ditches for the control of surface-water run-off from up-gradient areas onto the project area;
- Temporary check dams and diversion structures/equipment to divert surface-water flow around the project area of concern; and
- Sedimentation control structures around the decontamination and material storage areas.

Silt fence, as appropriate, will be installed along the perimeter of the project area. The silt fence will be anchored a minimum of six inches into the ground and staked every ten feet. Hay bales will be used in conjunction with silt fence along low lying areas of the excavation, staging, and decontamination areas that are expected to receive a greater amount of run-off. The hay bales will be installed immediately adjacent to a three-foot high silt fence. The hay bales will be secured to the ground with stakes or equivalent. Inspection and proper maintenance of the controls will be performed as a component of site maintenance during project activities.

2.5 Material Staging (materials intended for off-site management)

A material staging area will be constructed for the temporary storage of materials to be managed (i.e., scrapped, salvaged, off-site disposal) as a result of the project activities. In particular, the following materials will be staged separately:

- Uncontaminated metal (i.e., tanks, piping, etc.);
- Contaminated metal (tanks, piping, etc.);
- Tar Contaminated Soil;
- Tar Contaminated debris (i.e., brick, vegetation, etc.); and
- Water.

The material staging areas will be constructed in the vicinity of the project area. The staged materials (if determined to be contaminated) will be covered at the end of the work day and during precipitation events. The covered material will be secured during inclement weather and

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during periods of inactivity. Temporary erosion and storm water controls will utilized as described above to limit coal tar run-off. Contaminated materials may be placed in stockpiles, trucks, or disposal containers (i.e., roll-offs) as follows.

2.5.1 Generated Materials

Generated materials (i.e., excavated materials, tanks/piping, water, etc.) will be maintained as follows:

1. Preparation of Storage Areas

   - The area will be graded to provide positive drainage away from intended storage locations.

   - All stones, roots, debris and other objects that may puncture polyethylene (PE) ground protection will be removed.

   - The ground surface where material will be staged will be covered with a minimum of 1 layer of 0.15 millimeter (6-mil) polyethylene sheeting or equivalent material. All seams will be overlapped and sealed, as appropriate.

2. Storage Area Protection

   - At the end of each work day, contaminated materials will be completely covered with a minimum of 1 layer of 0.15 millimeter (6-mil) polyethylene sheeting, or an equivalent material. All seams will be overlapped and sealed, as appropriate.

   - Material covers will be weighted or secured by appropriate means to prevent tearing or removal by weather conditions.

3. Maintenance

   - Material covers, site grading, signing and security measures shall be properly maintained for the duration of storage. Damaged covers and other protections will be repaired or replaced as necessary.

2.5.2 Material Containers & Transportation

Trucks and disposal containers will be maintained as follows:

- The interior of truck-beds and disposal containers will be lined with 1 layer of 0.15 millimeter (6-mil) polyethylene sheeting, or an equivalent material. All seams shall be overlapped and sealed, as appropriate.

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- At the end of each work day, trucks and disposal containers storing material will be completely covered with waterproof tarpaulins, or hard cover tops. Tarpaulins will be placed over the top of the truck bed or container (rather than over the material inside) and shall extend over the sides to prevent water accumulation and the evaporation of contaminants.

- Tarpaulins will be weighted or secured by appropriate means to prevent tearing or removal by climatic conditions.

- Trucks and disposal containers will be labeled, signed, fenced or otherwise secured (as needed) at the end of each work day.

- Trucks, disposal containers and tarpaulins shall be properly maintained for the duration of material storage.

2.6 Storage Tank Cleaning/removal

Prior to removal of the tank systems, piping and ancillary equipment associated with the tanks will be disconnected (i.e., piping and ancillary equipment back to pump house). The presence of contamination (i.e., asbestos) on piping and ancillary equipment will be based on physical observation and appropriate testing prior to removal. Piping and ancillary equipment with the presence of asbestos or other regulated materials will be wrapped in plastic and transported to the decontamination area for staging prior to decontamination or off-site disposal, as necessary. All piping and ancillary equipment removed as part of this project will be taken to the decontamination facility for appropriate cleaning. In the event that decontamination is not feasible, it will be containerized and transported off site for appropriate disposal within 90 days.

An assessment was conducted by Tonawanda Coke of the material within the tank systems prior to development of this work plan. Based on the assessment, the material is tar and a saleable product. Therefore, the tar in the tanks is considered a saleable product and will be pumped from each tank and transported off-site to Tonawanda Coke's tar customer. In the event that it will not be transported off site as a saleable product, the material will be transported to Tonawanda Coke's tar recovery process. Once at the Tonawanda Coke facility, the tar will be unloaded into the 6 Sump where it will be conveyed into the tar decanter system. Following processing through the decanter system, it will be conveyed (i.e., pumped) to the tar dehydrator and ultimately sold off-site as a saleable product. Introduction/processing rate of the tar will be based on the facilities capability (i.e., storage volume) to manage the material. No material will be introduced into the system without approval from the NYSDEC on-site monitor. Any water in the tanks or secondary containment system will be pumped into vacuum trucks and transported to Tonawanda Coke's existing wastewater treatment system for appropriate treatment prior to discharge to the local Town of Tonawanda sanitary sewer system. Any material from within the tanks that can't be pumped (i.e., tar sludge), will be characterized prior to appropriate management.

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Following review of the analytical results and concurrence from the New York State Department of Conservation (NYSDEC), the materials will be removed and transported either to the existing coal mixing pad for future re-use in the coking process or transported off-site to an approved disposal facility within 90 days of determination that it can't be recycled.

Following removal of the tank contents, the tanks will be disassembled (i.e., cut) into manageable size pieces and transported to the decontamination facility for appropriate cleaning and offsite salvage. If determined that cleaning is not feasible (i.e., because of pervasive contamination), the tank pieces will be staged in the material storage area for appropriate off-site disposal within 90 days of determination.

2.7 Excavation of Residual Tar-Like Materials

Following removal of the tanks, excavation within the secondary containment area (i.e., earthen berms) will be conducted to remove any residual tar-like materials. The depth and limits of excavation will be determined in the field by the environmental professional and/or as directed by the NYSDEC on-site monitor. Excavation activities will continue until no visual evidence of residual tar-like material is present. Confirmation of successful removal of the residual material within the project area will be accomplished by visual examination collection of confirmation soil samples from the base and sidewalls of the excavation at a rate of one sample per 2,500 square feet of exposed surface area that was in contact with the coal tar removed. A minimum of one sample will be collected from each excavation area. Each sample will be analyzed for benzene, toluene, ethylbenzene total xylenes, and polycyclic aromatic hydrocarbons (PAHs). The samples will be submitted to a New York State accredited laboratory for analysis. The analytical results will be reviewed and compared to New York State Part 375 criteria. If the material left in place exceeds the Industrial Use Soil Cleanup Objectives (SCOs), it may require being covered as part of the final remedy. If the material left in place exceeds the Part 375 definition of grossly contaminated material, it will be recycled, disposed at a permitted facility, or left in place to be addressed as part of the final remedy, as approved by the NYSDEC on-site monitor. The determination will be made based on the type, volume, and location of the material involved.

The excavated materials will be removed and transported either to the existing coal mixing pad for future re-use in the coking process or transported off-site to an approved disposal facility within 90 days of determination that it can't be recycled. Dedicated on-site trucks and excavating equipment will be used for the area of excavation. The excavation and loading of excavated material will utilize "clean loading" procedures minimizing contact/impact with other areas. These procedures will ensure that the excavated materials are not spread to other areas including adjacent properties and roadways. Dedicated equipment (e.g. excavator, bulldozer, etc.) will be decontaminated prior to leaving the site. Decontamination will be performed at the designated on-site decontamination station in accordance with Section 2.8 of this plan.

A trackhoe, or equivalent, will be used for removing residual tar-like materials from the project area. Excavated materials will be directly loaded into a dump truck for transport to the coal mixing pad for future re-use in the coke process. Prior to exiting the project area, the truck exterior, wheels, and undercarriage will be inspected for the presence of coal tar. If necessary the dump trucks will be decontaminated to prevent the spreading of excavated materials to other areas of the site.

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2.8 Decontamination

An equipment/personnel decontamination facility is currently constructed at the site and will be utilized as part of this project. The decontamination facility will be used for removal of residual materials from large equipment (excavator, loader, haul trucks, etc.) at the end of excavation activities upon leaving the project area. In addition, the facility will be used to decontaminate materials (i.e., tank pieces, piping, etc.) prior to offsite disposal and/or salvage. The decontamination facility is constructed of an impervious lined floor to provide appropriate secondary containment of generate materials and wash waters. The facility will be equipped with a pressure washer or steam cleaner and storage containers for wastewater. Wash waters will be collected and transported to Tonawanda Coke's existing wastewater treatment system for appropriate treatment prior to discharge to the local Town of Tonawanda sanitary sewer system.

2.9 Worker Contamination Prevention

Materials will be managed to avoid the spread of residual materials from the site as follows:

- Work practices will focus on keeping materials off of workers and their personal clothing by using appropriate protective clothing, as necessary.
- Eating, drinking, chewing gum or tobacco, smoking, or any practice that increases the probability of hand-to-mouth contact is strictly prohibited within the material staging areas.
- The hands and face must be thoroughly washed upon leaving the work area and prior to engaging in any activity indicated above.
- Personal protective equipment and clothing must be worn by all personnel entering restricted areas of the site, as necessary.
- Contact with surfaces/materials either suspected or known to be contaminated will be avoided to minimize the potential for transfer to personnel, cross contamination and need for decontamination.
- All equipment leaving the site will be visually inspected and decontaminated, as needed.

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2.10 Field Documentation

All site activities will be documented as appropriate. At a minimum, the following information will be documented (i.e., inspection checklist/form):

- Project personnel;
- Date;
- Visual observation of material and circumstances present (erosion control, tanks, secondary containment, etc.);
- Volume of material transported off site (i.e., mixing pad, tar recover process, off-site. etc.); and
- Issues/Concerns

This documentation will provide a detailed summary of the daily activities, as well as an inventory of materials scheduled to be processed.

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Section 3

NEU-VELLE LLC

Material Management

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3.0 MATERIAL MANAGEMENT

3.1 General

This section summarizes procedures for the management of materials generated during the removal of the tank systems. All generated materials will be properly managed to minimize environmental impacts and to comply with all applicable federal, state, local laws and regulations. These procedures, in conjunction with applicable non-hazardous and hazardous waste manifests, will accompany the material from its point of origin to its final destination.

3.2 Flowable Tank Contents

The contents in tanks will be heated, as necessary, to help reduce viscosity and to facilitate transfer and loading. A positive displacement pump will be utilized to convey the tar from the tanks to tanker trucks or appropriate containers for transport off-site. The material in the tanks is tar and a saleable product. Therefore, the tar in the tanks is considered a saleable product and will be pumped from each tank and transported off-site to Tonawanda Coke's tar customer.

3.3 Non-Flowable Tank Contents and Excavated Tar

Non-flowable tar (i.e., sludge) and excavated tar from within the secondary containment area will be characterized prior to appropriate management. Characterization will include collecting representative composite samples for laboratory analysis. The samples will be analyzed for total halogens and total PCBs in accordance with USEPA SW846 Methods 8260 and 8082A, respectively. The results will be utilized to determine the management of the materials.

Following review of the analytical results and concurrence from the New York State Department of Conservation (NYSDEC), the materials will be removed and transported either to the existing coal mixing pad for future re-use in the coking process or transported off-site to an approved disposal facility within 90 days of determination that the material can't be recycled.

3.4 Previously Excavated Material

As part of the previous activities conducted at the site, approximately 3,000 cubic yards of material currently remains on site. This material consists of approximately 2,500 cubic yards of soil and approximately 500 cubic yards of a mixture of soil, coal, breeze, and tar. This material is currently being staged on and covered with plastic. It would be Tonawanda Coke's intention to recycle the 500 cubic yard material in the coking process upon approval by the NYSDEC. With respect to the 2,500 cubic yards of soil, it is Tonawanda Coke's intention to pursue a contained-in determination on this material due to it not containing visible tar. To facilitate this contained-in determination, representative samples were collected upon the direction of the on-site NYSDEC monitor. The samples were transported to Paradigm Environmental Services located in Rochester, New York and analyzed for volatile organic and semi-volatile organic compounds in accordance with USEPA SW846 Methods 8260 and 8070, respectively. A summary of the analytical results is included in Appendix C. The analytical data reports are included in appendix D. Following approval by the NYSDEC, the material will be managed (i.e., transported off site for disposal) within 90 days of the contain-in determination.

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3.4 Water

Water removed from the tank secondary containment area and collected as part of the equipment and materials decontamination area will be pumped into a vacuum truck and transported to Tonawanda Coke's existing wastewater treatment system for appropriate treatment prior to discharge to the local Town of Tonawanda sanitary sewer system.

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Section 4

NEU-VELLE LLC

Site Restoration and Repairs

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4.0 SITE RESTORATION AND REPAIRS

4.1 General

This section summarizes procedures for the restoration of the site in the areas of impact (i.e., material screening, material staging areas, etc.) as well as the repair of any site features.

4.2 Material Staging and Screening Areas

The areas of the material screening and staging areas will be visually inspected for the presence of tar. Any tar remaining in these areas will be staged on site for transport either to the existing coal mixing pad for future re-use in the coking process or transported off-site to an approved disposal facility within 90 days of determination that it can't be recycled. Following removal of any tar from within these areas, representative samples (with concurrence by NYSDEC on-site monitor) will be collected to document the condition of the surface soils. Samples will be transported to an approved laboratory and analyzed for volatile organic and semi-volatile organic compounds in accordance with USEPA SW846 Methods 8260 and 8070, respectively. Following the receipt of analytical data, it will be reviewed and compared to the New York State Part 375 Industrial Use Soil Cleanup Objectives (SCOs).

4.3 Grading and Seeding

Following the field activities, all areas on site that were disturbed will be appropriately graded to promote appropriate drainage and seeded to establish erosion control.

4.4 Diversion Ditch

Following demobilization from the site, the stormwater diversion ditch will be inspected for proper operation. Any defects (i.e., significant erosion, etc.) will be repaired as appropriate.

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Section 5

NEU-VELLE LLC

Reporting

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5.0 REPORTING

Upon completion of the project activities, a summary report will be prepared. At a minimum the summary report will include the following information:

- P.E. Certification: certification that the tank removals were performed in accordance with the work plan(s);
- Activities summary: will provide a summary of the activities in that were conducted (i.e., tank cleaning, tank removal, excavation, etc.);
- Material management: a summary of the management of all materials generated as part of the tank removal project.

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Appendix A

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Site Plan

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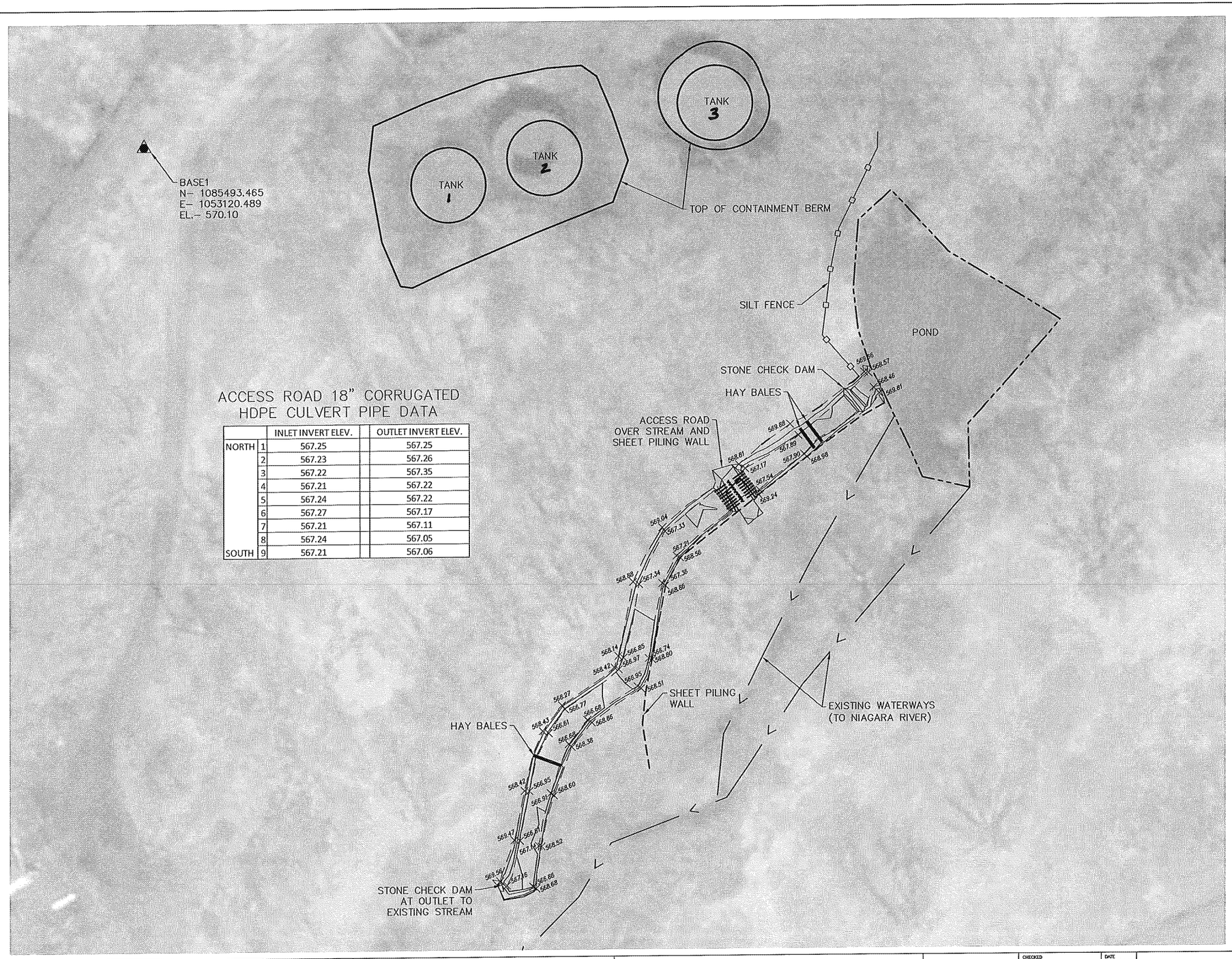

ACCESS ROAD 18" CORRUGATED HDPE CULVERT PIPE DATA

		INLET INVERT ELEV.	OUTLET INVERT ELEV.
NORTH	1	567.25	567.25
	2	567.23	567.26
	3	567.22	567.35
	4	567.21	567.22
	5	567.24	567.22
	6	567.27	567.17
	7	567.21	567.11
	8	567.24	567.05
SOUTH	9	567.21	567.06

NOTES:

1. INFORMATION SHOWN HEREON BASED UPON A FIELD SURVEY BY ENSOL, INC. ON AUGUST 31, 2017.
2. LOCATION OF CONTROL POINT 'BASE1' BASED UPON A 2-HOUR STATIC GPS OBSERVATION WITH OPUS CORRECTION.
3. COORDINATES SHOWN ARE SPCS NEW YORK WEST (US SURVEY FOOT), AND ELEVATIONS ARE NAVD88.

LEGEND:

- SILT FENCE
- WATERWAY (EXISTING)
- CONTROL POINT
- 568.88 SPOT ELEVATION

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

TONAWANDA COKE CORPORATION

TONAWANDA, NEW YORK

NEU-VELLE LLC
EASTMAN BUSINESS PARK
1667 LAKE AVENUE
BUILDING 59, SUITE 101
ROCHESTER, NEW YORK 14652

		DATE
CHECKED	AGL	09/17
DESIGN ENGINEER	AGL	09/17
PROJECT ENGINEER	AGL	09/17
PROJECT MANAGER	AGL	09/17
APPROVED	AGL	09/17
APPROVED	AGL	09/17

SITE PLAN

DRAWN: AMW

DATE: SEPTEMBER 2017

REVISION DATE:

JOB NO.

0' SCALE 30' 60'

FILE NAME: 17-7023-D01-RIVERRD-STREAM.DWG

DRAWING NO. 1

REV. NO.

SHEET 1 OF 1

X:\AAdg\NEU-VELLE LLC (Al Lyons)\17-7023 River Road Rem Site Survey\ACAD\17-7023-D01-RiverRd-Stream.dwg, 9/15/2017 10:25:43 AM

Appendix B

NEU-VELLE LLC

Processed Material Analytical Data Summary

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Tonawanda Coke - Tonawanda, New York
Site 108 (Soil Separation Pile)
Analytical Results Summary

Sample ID		1	2	3	4	5	6	7	8	9	10	11	NYSDEC
Sample Date		8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	Industrial Clean-up Objective
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	6 NYCRR Part 375-6 (Table 375-6.8B)
Volatiles (SW846 8260)													
1,1,1-Trichloroethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	1000
1,1,2,2-Tetrachloroethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
1,1,2-Trichloroethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
1,1-Dichloroethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	480
1,1-Dichloroethene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	1000
1,2,3, Trichlorobenzene	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	NI
1,2,4, Trichlorobenzene	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	380
1,2 Dibromo 3 Chloropropane	mg/kg	ND<0.0382	ND<0.0396	ND<0.0498	ND<0.0474	ND<0.0447	ND<0.0389	ND<0.0395	ND<0.0374	ND<0.0505	ND<0.0339	ND<0.0329	NI
1,2 Dibromoethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
1,2-Dichlorobenzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	1000
1,2-Dichloroethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	60
1,2-Dichloropropane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
1,3,5, Trimethylbenzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	380
1,3-Dichlorobenzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	560
1,4-Dichlorobenzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	250
1,4 dioxane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	250
2-Butanone	mg/kg	ND<0.0382	ND<0.0396	ND<0.0498	ND<0.0474	ND<0.0447	ND<0.0389	ND<0.0395	ND<0.0374	ND<0.0505	ND<0.0339	ND<0.0329	NI
2-Hexanone	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	NI
4-Methyl-2-pentanone	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	NI
Acetone	mg/kg	ND<0.0382	ND<0.0396	ND<0.0498	ND<0.0474	ND<0.0447	ND<0.0389	ND<0.0395	ND<0.0374	ND<0.0505	ND<0.0339	ND<0.0329	1000
Benzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	**0.0106**	ND<0.00740	**0.0177**	ND<0.00677	ND<0.00658	89
Bromochloromethane	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	NI
Bromodichloromethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Bromoform	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	NI
Bromomethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Carbon disulfide	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Carbon Tetrachloride	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	44
Chlorobenzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	1000
Chloroethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Chloroform	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	700
Chloromethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
cis-1,2-Dichloroethene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	1000
cis-1,3-Dichloropropene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Cyclohexane	mg/kg	ND<0.0382	ND<0.0396	ND<0.0498	ND<0.0474	ND<0.0447	ND<0.0389	ND<0.0395	ND<0.0374	ND<0.0505	ND<0.0339	ND<0.0329	NI
Dibromochloromethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Dichlorodifluoromethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Ethylbenzene	mg/kg	ND<0.00763	**0.0103**	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	**0.00944**	ND<0.00740	**0.0478**	ND<0.00677	ND<0.00658	780
Freon 113	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Isopropylbenzene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
m,p-Xylene	mg/kg	ND<0.00763	**0.0667**	ND<0.00996	**0.0176**	ND<0.0447	ND<0.0389	**0.0291**	ND<0.00740	**0.351**	ND<0.00677	ND<0.00658	1000
Methyl acetate	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Methyl tert-butyl Ether	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	1000
Methylcyclohexane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Methylene chloride	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	ND<0.0252	ND<0.0169	ND<0.0165	1000
o-Xylene	mg/kg	ND<0.00763	**0.0401**	ND<0.00996	**0.0105**	ND<0.00893	ND<0.00777	**0.0174**	ND<0.00740	**0.215**	ND<0.00677	ND<0.00658	NI
Styrene	mg/kg	ND<0.0191	ND<0.0198	ND<0.0249	ND<0.0237	ND<0.0223	ND<0.0194	ND<0.0198	ND<0.0185	**0.0918**	ND<0.0169	ND<0.0165	NI
Tetrachloroethene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	300
Toluene	mg/kg	ND<0.00763	**0.0136**	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	**0.0112**	ND<0.00740	**0.0502**	ND<0.00677	ND<0.00658	1000
trans-1,2-Dichloroethene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
trans-1,3-Dichloropropene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Trichloroethene	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	400
Trichlorofluoromethane	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	NI
Vinyl chloride	mg/kg	ND<0.00763	ND<0.00791	ND<0.00996	ND<0.00947	ND<0.00893	ND<0.00777	ND<0.00790	ND<0.00740	ND<0.0101	ND<0.00677	ND<0.00658	27

(mg/kg) = millograms per kilograms = parts per million (ppm)

ND = Not detected

NI = Not indicated in NYSDEC Part 375-6 (Table 375-6.8B)

Shaded area represents NYSDEC Part 375-6 (Table 375-6.8B) exceedance

Tonawanda Coke - Tonawanda, New York
Site 108 (Soil Separation Pile)
Analytical Results Summary

Sample ID		1-3	4-6	7-9	10-11	NYSDEC
Sample Date		8/20/2018	8/20/2018	8/20/2018	8/20/2018	Industrial Clean-up Objective
Matrix		Soil	Soil	Soil	Soil	6 NYCRR Part 375-6 (Table 375-6.8B)
Semi-volatiles (SW846 8270)						
1,1-Biphenyl	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
1,2,4,5-Tetrachlorobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
1,2,4-Trichlorobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
1,2-Dichlorobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
1,3-Dichlorobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
1,4-Dichlorobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,2-Oxybis (1-chloropropane)	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,3,4,6-Tetrachlorophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,4,5-Trichlorophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,4,6-Trichlorophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,4-Dichlorophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,4-Dimethylphenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,4-Dinitrophenol	mg/kg	ND<143	ND<137	ND<74.5	ND<33.9	NI
2,4-Dinitrotoluene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2,6-Dinitrotoluene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2-Chloronaphthalene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2-Chlorophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2-Methylnaphthalene	mg/kg	**511**	**95.9**	**28.2**	**8.7**	NI
2-Methylphenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2-Nitroaniline	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
2-Nitrophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
3&4-Methylphenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
3,3'-Dichlorobenzidine	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
3-Nitroaniline	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
4,6-Dinitro-2-methylphenol	mg/kg	ND<47.9	ND<45.8	ND<24.9	ND<11.4	NI
4-Bromophenyl phenyl ether	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
4-Chloro-3-methyl phenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
4-Chloroaniline	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
4-Chlorophenyl phenyl ether	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
4-Nitroaniline	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
4-Nitrophenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Acenaphthene	mg/kg	**37.2**	ND<34.2	ND<18.6	**14.7**	1000
Acenaphthylene	mg/kg	**92.4**	**111**	**83.2**	**41.8**	1000
Acetophenone	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Anthracene	mg/kg	**156**	**168**	**258**	**40.8**	1000
Atrazine	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Benzaldehyde	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Benzo(a)anthracene	mg/kg	**200**	**236**	232	**86.3**	11
Benzo(a)pyrene	mg/kg	**133**	**187**	165	**73.9**	1.1
Benzo(b)fluoranthene	mg/kg	**108**	**148**	138	**63.8**	11
Benzo(g,h,i)perylene	mg/kg	**72.7**	**112**	**84.2**	**45.4**	1000
Benzo(k)fluoranthene	mg/kg	**125**	**156**	130	**57.7**	110
bis(2-Chloroethoxy)methane	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
bis(2-Chloroethyl)ether	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
bis(2-Ethylhexyl)phthalate	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Butyl benzyl phthalate	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Caprolactam	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Carbazole	mg/kg	**70.3**	**55.4**	**53.4**	**8.82**	NI
Chrysene	mg/kg	**171**	**221**	**208**	**81.5**	110
Dibenzo(a,h)anthracene	mg/kg	ND<35.8	ND<34.2	**24.2**	**11.6**	1.1
Dibenzofuran	mg/kg	**103**	**132**	**79.6**	**17.4**	NI
Diethyl phthalate	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Dimethyl phthalate	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Di-n-butyl phthalate	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Di-n-octyl phthalate	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Fluoranthene	mg/kg	**595**	**744**	**615**	**229**	1000
Fluorene	mg/kg	**163**	**212**	**152**	**31.3**	1000
Hexachlorobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Hexachlorobutadiene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Hexachlorocyclopentadiene	mg/kg	ND<143	ND<137	ND<74.5	ND<33.9	NI
Hexachloroethane	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Indeno(1,2,3-cd)pyrene	mg/kg	**65**	**103**	**75.9**	**40.4**	11
Isophorone	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Naphthalene	mg/kg	**235**	**349**	**89.2**	**48.9**	1000
Nitrobenzene	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
N-Nitroso-di-n-propylamine	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
N-Nitrosodiphenylamine	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	NI
Pentachlorophenol	mg/kg	ND<71.6	ND<68.4	ND<37.2	ND<17	55
Phenanthrene	mg/kg	**746**	**906**	**646**	**164**	1000
Phenol	mg/kg	ND<35.8	ND<34.2	ND<18.6	ND<8.49	1000
Pyrene	mg/kg	**422**	**555**	**435**	**178**	1000

(mg/kg) = millograms per kilograms = parts per million (ppm)

ND = Not detected

NI = Not indicated in NYSDEC Part 375-6 (Table 375-6.8B)

Shaded area represents NYSDEC Part 375-6 (Table 375-6.8B) exceedance

Appendix C

NEU-VELLE LLC

Processed Material Analytical Data Report

ED_002831_00000154-00027

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Neu-Velle

For Lab Project ID

183805

Referencing

Tonawanda Coke

Prepared

Tuesday, August 28, 2018

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 1
Lab Sample ID: 183805-01 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.63	ug/Kg		8/24/2018 21:36
1,1,2,2-Tetrachloroethane	< 7.63	ug/Kg		8/24/2018 21:36
1,1,2-Trichloroethane	< 7.63	ug/Kg		8/24/2018 21:36
1,1-Dichloroethane	< 7.63	ug/Kg		8/24/2018 21:36
1,1-Dichloroethene	< 7.63	ug/Kg		8/24/2018 21:36
1,2,3-Trichlorobenzene	< 19.1	ug/Kg		8/24/2018 21:36
1,2,4-Trichlorobenzene	< 19.1	ug/Kg		8/24/2018 21:36
1,2-Dibromo-3-Chloropropane	< 38.2	ug/Kg		8/24/2018 21:36
1,2-Dibromoethane	< 7.63	ug/Kg		8/24/2018 21:36
1,2-Dichlorobenzene	< 7.63	ug/Kg		8/24/2018 21:36
1,2-Dichloroethane	< 7.63	ug/Kg		8/24/2018 21:36
1,2-Dichloropropane	< 7.63	ug/Kg		8/24/2018 21:36
1,3-Dichlorobenzene	< 7.63	ug/Kg		8/24/2018 21:36
1,4-Dichlorobenzene	< 7.63	ug/Kg		8/24/2018 21:36
1,4-Dioxane	< 76.3	ug/Kg		8/24/2018 21:36
2-Butanone	< 38.2	ug/Kg		8/24/2018 21:36
2-Hexanone	< 19.1	ug/Kg		8/24/2018 21:36
4-Methyl-2-pentanone	< 19.1	ug/Kg		8/24/2018 21:36
Acetone	< 38.2	ug/Kg		8/24/2018 21:36
Benzene	< 7.63	ug/Kg		8/24/2018 21:36
Bromochloromethane	< 19.1	ug/Kg		8/24/2018 21:36
Bromodichloromethane	< 7.63	ug/Kg		8/24/2018 21:36
Bromoform	< 19.1	ug/Kg		8/24/2018 21:36
Bromomethane	< 7.63	ug/Kg		8/24/2018 21:36
Carbon disulfide	< 7.63	ug/Kg		8/24/2018 21:36
Carbon Tetrachloride	< 7.63	ug/Kg		8/24/2018 21:36
Chlorobenzene	< 7.63	ug/Kg		8/24/2018 21:36
Chloroethane	< 7.63	ug/Kg		8/24/2018 21:36
Chloroform	< 7.63	ug/Kg		8/24/2018 21:36

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 1
Lab Sample ID: 183805-01 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 7.63	ug/Kg	8/24/2018	21:36
cis-1,2-Dichloroethene	< 7.63	ug/Kg	8/24/2018	21:36
cis-1,3-Dichloropropene	< 7.63	ug/Kg	8/24/2018	21:36
Cyclohexane	< 38.2	ug/Kg	8/24/2018	21:36
Dibromochloromethane	< 7.63	ug/Kg	8/24/2018	21:36
Dichlorodifluoromethane	< 7.63	ug/Kg	8/24/2018	21:36
Ethylbenzene	< 7.63	ug/Kg	8/24/2018	21:36
Freon 113	< 7.63	ug/Kg	8/24/2018	21:36
Isopropylbenzene	< 7.63	ug/Kg	8/24/2018	21:36
m,p-Xylene	< 7.63	ug/Kg	8/24/2018	21:36
Methyl acetate	< 7.63	ug/Kg	8/24/2018	21:36
Methyl tert-butyl Ether	< 7.63	ug/Kg	8/24/2018	21:36
Methylcyclohexane	< 7.63	ug/Kg	8/24/2018	21:36
Methylene chloride	< 19.1	ug/Kg	8/24/2018	21:36
o-Xylene	< 7.63	ug/Kg	8/24/2018	21:36
Styrene	< 19.1	ug/Kg	8/24/2018	21:36
Tetrachloroethene	< 7.63	ug/Kg	8/24/2018	21:36
Toluene	< 7.63	ug/Kg	8/24/2018	21:36
trans-1,2-Dichloroethene	< 7.63	ug/Kg	8/24/2018	21:36
trans-1,3-Dichloropropene	< 7.63	ug/Kg	8/24/2018	21:36
Trichloroethene	< 7.63	ug/Kg	8/24/2018	21:36
Trichlorofluoromethane	< 7.63	ug/Kg	8/24/2018	21:36
Vinyl chloride	< 7.63	ug/Kg	8/24/2018	21:36

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 1
Lab Sample ID: 183805-01 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	80.4 - 128		8/24/2018	21:36
4-Bromofluorobenzene	**75.4**	75.7 - 120	*	8/24/2018	21:36
Pentafluorobenzene	**90.7**	85.3 - 111		8/24/2018	21:36
Toluene-D8	**82.9**	85 - 112	*	8/24/2018	21:36

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x53509.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 2
Lab Sample ID: 183805-02 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.91	ug/Kg		8/24/2018 22:00
1,1,2,2-Tetrachloroethane	< 7.91	ug/Kg		8/24/2018 22:00
1,1,2-Trichloroethane	< 7.91	ug/Kg		8/24/2018 22:00
1,1-Dichloroethane	< 7.91	ug/Kg		8/24/2018 22:00
1,1-Dichloroethene	< 7.91	ug/Kg		8/24/2018 22:00
1,2,3-Trichlorobenzene	< 19.8	ug/Kg		8/24/2018 22:00
1,2,4-Trichlorobenzene	< 19.8	ug/Kg		8/24/2018 22:00
1,2-Dibromo-3-Chloropropane	< 39.6	ug/Kg		8/24/2018 22:00
1,2-Dibromoethane	< 7.91	ug/Kg		8/24/2018 22:00
1,2-Dichlorobenzene	< 7.91	ug/Kg		8/24/2018 22:00
1,2-Dichloroethane	< 7.91	ug/Kg		8/24/2018 22:00
1,2-Dichloropropane	< 7.91	ug/Kg		8/24/2018 22:00
1,3-Dichlorobenzene	< 7.91	ug/Kg		8/24/2018 22:00
1,4-Dichlorobenzene	< 7.91	ug/Kg		8/24/2018 22:00
1,4-Dioxane	< 79.1	ug/Kg		8/24/2018 22:00
2-Butanone	< 39.6	ug/Kg		8/24/2018 22:00
2-Hexanone	< 19.8	ug/Kg		8/24/2018 22:00
4-Methyl-2-pentanone	< 19.8	ug/Kg		8/24/2018 22:00
Acetone	< 39.6	ug/Kg		8/24/2018 22:00
Benzene	< 7.91	ug/Kg		8/24/2018 22:00
Bromochloromethane	< 19.8	ug/Kg		8/24/2018 22:00
Bromodichloromethane	< 7.91	ug/Kg		8/24/2018 22:00
Bromoform	< 19.8	ug/Kg		8/24/2018 22:00
Bromomethane	< 7.91	ug/Kg		8/24/2018 22:00
Carbon disulfide	< 7.91	ug/Kg		8/24/2018 22:00
Carbon Tetrachloride	< 7.91	ug/Kg		8/24/2018 22:00
Chlorobenzene	< 7.91	ug/Kg		8/24/2018 22:00
Chloroethane	< 7.91	ug/Kg		8/24/2018 22:00
Chloroform	< 7.91	ug/Kg		8/24/2018 22:00

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 2
Lab Sample ID: 183805-02 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 7.91	ug/Kg	8/24/2018	22:00
cis-1,2-Dichloroethene	< 7.91	ug/Kg	8/24/2018	22:00
cis-1,3-Dichloropropene	< 7.91	ug/Kg	8/24/2018	22:00
Cyclohexane	< 39.6	ug/Kg	8/24/2018	22:00
Dibromochloromethane	< 7.91	ug/Kg	8/24/2018	22:00
Dichlorodifluoromethane	< 7.91	ug/Kg	8/24/2018	22:00
Ethylbenzene	**10.3**	ug/Kg	8/24/2018	22:00
Freon 113	< 7.91	ug/Kg	8/24/2018	22:00
Isopropylbenzene	< 7.91	ug/Kg	8/24/2018	22:00
m,p-Xylene	**66.7**	ug/Kg	8/24/2018	22:00
Methyl acetate	< 7.91	ug/Kg	8/24/2018	22:00
Methyl tert-butyl Ether	< 7.91	ug/Kg	8/24/2018	22:00
Methylcyclohexane	< 7.91	ug/Kg	8/24/2018	22:00
Methylene chloride	< 19.8	ug/Kg	8/24/2018	22:00
o-Xylene	**40.1**	ug/Kg	8/24/2018	22:00
Styrene	< 19.8	ug/Kg	8/24/2018	22:00
Tetrachloroethene	< 7.91	ug/Kg	8/24/2018	22:00
Toluene	**13.6**	ug/Kg	8/24/2018	22:00
trans-1,2-Dichloroethene	< 7.91	ug/Kg	8/24/2018	22:00
trans-1,3-Dichloropropene	< 7.91	ug/Kg	8/24/2018	22:00
Trichloroethene	< 7.91	ug/Kg	8/24/2018	22:00
Trichlorofluoromethane	< 7.91	ug/Kg	8/24/2018	22:00
Vinyl chloride	< 7.91	ug/Kg	8/24/2018	22:00

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 2
Lab Sample ID: 183805-02 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**112**	80.4 - 128		8/24/2018 22:00
4-Bromofluorobenzene	**94.4**	75.7 - 120		8/24/2018 22:00
Pentafluorobenzene	**96.2**	85.3 - 111		8/24/2018 22:00
Toluene-D8	**94.3**	85 - 112		8/24/2018 22:00

Method Reference(s): EPA 8260C
EPA 5035A - L
Data File: x53510.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 3
Lab Sample ID: 183805-03 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.96	ug/Kg		8/24/2018 22:24
1,1,2,2-Tetrachloroethane	< 9.96	ug/Kg		8/24/2018 22:24
1,1,2-Trichloroethane	< 9.96	ug/Kg		8/24/2018 22:24
1,1-Dichloroethane	< 9.96	ug/Kg		8/24/2018 22:24
1,1-Dichloroethene	< 9.96	ug/Kg		8/24/2018 22:24
1,2,3-Trichlorobenzene	< 24.9	ug/Kg		8/24/2018 22:24
1,2,4-Trichlorobenzene	< 24.9	ug/Kg		8/24/2018 22:24
1,2-Dibromo-3-Chloropropane	< 49.8	ug/Kg		8/24/2018 22:24
1,2-Dibromoethane	< 9.96	ug/Kg		8/24/2018 22:24
1,2-Dichlorobenzene	< 9.96	ug/Kg		8/24/2018 22:24
1,2-Dichloroethane	< 9.96	ug/Kg		8/24/2018 22:24
1,2-Dichloropropane	< 9.96	ug/Kg		8/24/2018 22:24
1,3-Dichlorobenzene	< 9.96	ug/Kg		8/24/2018 22:24
1,4-Dichlorobenzene	< 9.96	ug/Kg		8/24/2018 22:24
1,4-Dioxane	< 99.6	ug/Kg		8/24/2018 22:24
2-Butanone	< 49.8	ug/Kg		8/24/2018 22:24
2-Hexanone	< 24.9	ug/Kg		8/24/2018 22:24
4-Methyl-2-pentanone	< 24.9	ug/Kg		8/24/2018 22:24
Acetone	< 49.8	ug/Kg		8/24/2018 22:24
Benzene	< 9.96	ug/Kg		8/24/2018 22:24
Bromochloromethane	< 24.9	ug/Kg		8/24/2018 22:24
Bromodichloromethane	< 9.96	ug/Kg		8/24/2018 22:24
Bromoform	< 24.9	ug/Kg		8/24/2018 22:24
Bromomethane	< 9.96	ug/Kg		8/24/2018 22:24
Carbon disulfide	< 9.96	ug/Kg		8/24/2018 22:24
Carbon Tetrachloride	< 9.96	ug/Kg		8/24/2018 22:24
Chlorobenzene	< 9.96	ug/Kg		8/24/2018 22:24
Chloroethane	< 9.96	ug/Kg		8/24/2018 22:24
Chloroform	< 9.96	ug/Kg		8/24/2018 22:24

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 3
Lab Sample ID: 183805-03 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 9.96	ug/Kg	8/24/2018	22:24
cis-1,2-Dichloroethene	< 9.96	ug/Kg	8/24/2018	22:24
cis-1,3-Dichloropropene	< 9.96	ug/Kg	8/24/2018	22:24
Cyclohexane	< 49.8	ug/Kg	8/24/2018	22:24
Dibromochloromethane	< 9.96	ug/Kg	8/24/2018	22:24
Dichlorodifluoromethane	< 9.96	ug/Kg	8/24/2018	22:24
Ethylbenzene	< 9.96	ug/Kg	8/24/2018	22:24
Freon 113	< 9.96	ug/Kg	8/24/2018	22:24
Isopropylbenzene	< 9.96	ug/Kg	8/24/2018	22:24
m,p-Xylene	< 9.96	ug/Kg	8/24/2018	22:24
Methyl acetate	< 9.96	ug/Kg	8/24/2018	22:24
Methyl tert-butyl Ether	< 9.96	ug/Kg	8/24/2018	22:24
Methylcyclohexane	< 9.96	ug/Kg	8/24/2018	22:24
Methylene chloride	< 24.9	ug/Kg	8/24/2018	22:24
o-Xylene	< 9.96	ug/Kg	8/24/2018	22:24
Styrene	< 24.9	ug/Kg	8/24/2018	22:24
Tetrachloroethene	< 9.96	ug/Kg	8/24/2018	22:24
Toluene	< 9.96	ug/Kg	8/24/2018	22:24
trans-1,2-Dichloroethene	< 9.96	ug/Kg	8/24/2018	22:24
trans-1,3-Dichloropropene	< 9.96	ug/Kg	8/24/2018	22:24
Trichloroethene	< 9.96	ug/Kg	8/24/2018	22:24
Trichlorofluoromethane	< 9.96	ug/Kg	8/24/2018	22:24
Vinyl chloride	< 9.96	ug/Kg	8/24/2018	22:24

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 3

Lab Sample ID: 183805-03 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	80.4 - 128		8/24/2018	22:24
4-Bromofluorobenzene	**97.6**	75.7 - 120		8/24/2018	22:24
Pentafluorobenzene	**97.9**	85.3 - 111		8/24/2018	22:24
Toluene-D8	**95.8**	85 - 112		8/24/2018	22:24

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53511.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 4
Lab Sample ID: 183805-04 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 9.47	ug/Kg		8/24/2018 22:49
1,1,2,2-Tetrachloroethane	< 9.47	ug/Kg		8/24/2018 22:49
1,1,2-Trichloroethane	< 9.47	ug/Kg		8/24/2018 22:49
1,1-Dichloroethane	< 9.47	ug/Kg		8/24/2018 22:49
1,1-Dichloroethene	< 9.47	ug/Kg		8/24/2018 22:49
1,2,3-Trichlorobenzene	< 23.7	ug/Kg		8/24/2018 22:49
1,2,4-Trichlorobenzene	< 23.7	ug/Kg		8/24/2018 22:49
1,2-Dibromo-3-Chloropropane	< 47.4	ug/Kg		8/24/2018 22:49
1,2-Dibromoethane	< 9.47	ug/Kg		8/24/2018 22:49
1,2-Dichlorobenzene	< 9.47	ug/Kg		8/24/2018 22:49
1,2-Dichloroethane	< 9.47	ug/Kg		8/24/2018 22:49
1,2-Dichloropropane	< 9.47	ug/Kg		8/24/2018 22:49
1,3-Dichlorobenzene	< 9.47	ug/Kg		8/24/2018 22:49
1,4-Dichlorobenzene	< 9.47	ug/Kg		8/24/2018 22:49
1,4-Dioxane	< 94.7	ug/Kg		8/24/2018 22:49
2-Butanone	< 47.4	ug/Kg		8/24/2018 22:49
2-Hexanone	< 23.7	ug/Kg		8/24/2018 22:49
4-Methyl-2-pentanone	< 23.7	ug/Kg		8/24/2018 22:49
Acetone	< 47.4	ug/Kg		8/24/2018 22:49
Benzene	< 9.47	ug/Kg		8/24/2018 22:49
Bromochloromethane	< 23.7	ug/Kg		8/24/2018 22:49
Bromodichloromethane	< 9.47	ug/Kg		8/24/2018 22:49
Bromoform	< 23.7	ug/Kg		8/24/2018 22:49
Bromomethane	< 9.47	ug/Kg		8/24/2018 22:49
Carbon disulfide	< 9.47	ug/Kg		8/24/2018 22:49
Carbon Tetrachloride	< 9.47	ug/Kg		8/24/2018 22:49
Chlorobenzene	< 9.47	ug/Kg		8/24/2018 22:49
Chloroethane	< 9.47	ug/Kg		8/24/2018 22:49
Chloroform	< 9.47	ug/Kg		8/24/2018 22:49

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 4
Lab Sample ID: 183805-04 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 9.47	ug/Kg	8/24/2018	22:49
cis-1,2-Dichloroethene	< 9.47	ug/Kg	8/24/2018	22:49
cis-1,3-Dichloropropene	< 9.47	ug/Kg	8/24/2018	22:49
Cyclohexane	< 47.4	ug/Kg	8/24/2018	22:49
Dibromochloromethane	< 9.47	ug/Kg	8/24/2018	22:49
Dichlorodifluoromethane	< 9.47	ug/Kg	8/24/2018	22:49
Ethylbenzene	< 9.47	ug/Kg	8/24/2018	22:49
Freon 113	< 9.47	ug/Kg	8/24/2018	22:49
Isopropylbenzene	< 9.47	ug/Kg	8/24/2018	22:49
m,p-Xylene	**17.6**	ug/Kg	8/24/2018	22:49
Methyl acetate	< 9.47	ug/Kg	8/24/2018	22:49
Methyl tert-butyl Ether	< 9.47	ug/Kg	8/24/2018	22:49
Methylcyclohexane	< 9.47	ug/Kg	8/24/2018	22:49
Methylene chloride	< 23.7	ug/Kg	8/24/2018	22:49
o-Xylene	**10.5**	ug/Kg	8/24/2018	22:49
Styrene	< 23.7	ug/Kg	8/24/2018	22:49
Tetrachloroethene	< 9.47	ug/Kg	8/24/2018	22:49
Toluene	< 9.47	ug/Kg	8/24/2018	22:49
trans-1,2-Dichloroethene	< 9.47	ug/Kg	8/24/2018	22:49
trans-1,3-Dichloropropene	< 9.47	ug/Kg	8/24/2018	22:49
Trichloroethene	< 9.47	ug/Kg	8/24/2018	22:49
Trichlorofluoromethane	< 9.47	ug/Kg	8/24/2018	22:49
Vinyl chloride	< 9.47	ug/Kg	8/24/2018	22:49

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 4

Lab Sample ID: 183805-04 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	80.4 - 128		8/24/2018	22:49
4-Bromofluorobenzene	**93.7**	75.7 - 120		8/24/2018	22:49
Pentafluorobenzene	**95.3**	85.3 - 111		8/24/2018	22:49
Toluene-D8	**88.6**	85 - 112		8/24/2018	22:49

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53512.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 5
Lab Sample ID: 183805-05 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.93	ug/Kg		8/24/2018 23:13
1,1,2,2-Tetrachloroethane	< 8.93	ug/Kg		8/24/2018 23:13
1,1,2-Trichloroethane	< 8.93	ug/Kg		8/24/2018 23:13
1,1-Dichloroethane	< 8.93	ug/Kg		8/24/2018 23:13
1,1-Dichloroethene	< 8.93	ug/Kg		8/24/2018 23:13
1,2,3-Trichlorobenzene	< 22.3	ug/Kg		8/24/2018 23:13
1,2,4-Trichlorobenzene	< 22.3	ug/Kg		8/24/2018 23:13
1,2-Dibromo-3-Chloropropane	< 44.7	ug/Kg		8/24/2018 23:13
1,2-Dibromoethane	< 8.93	ug/Kg		8/24/2018 23:13
1,2-Dichlorobenzene	< 8.93	ug/Kg		8/24/2018 23:13
1,2-Dichloroethane	< 8.93	ug/Kg		8/24/2018 23:13
1,2-Dichloropropane	< 8.93	ug/Kg		8/24/2018 23:13
1,3-Dichlorobenzene	< 8.93	ug/Kg		8/24/2018 23:13
1,4-Dichlorobenzene	< 8.93	ug/Kg		8/24/2018 23:13
1,4-Dioxane	< 89.3	ug/Kg		8/24/2018 23:13
2-Butanone	< 44.7	ug/Kg		8/24/2018 23:13
2-Hexanone	< 22.3	ug/Kg		8/24/2018 23:13
4-Methyl-2-pentanone	< 22.3	ug/Kg		8/24/2018 23:13
Acetone	< 44.7	ug/Kg		8/24/2018 23:13
Benzene	< 8.93	ug/Kg		8/24/2018 23:13
Bromochloromethane	< 22.3	ug/Kg		8/24/2018 23:13
Bromodichloromethane	< 8.93	ug/Kg		8/24/2018 23:13
Bromoform	< 22.3	ug/Kg		8/24/2018 23:13
Bromomethane	< 8.93	ug/Kg		8/24/2018 23:13
Carbon disulfide	< 8.93	ug/Kg		8/24/2018 23:13
Carbon Tetrachloride	< 8.93	ug/Kg		8/24/2018 23:13
Chlorobenzene	< 8.93	ug/Kg		8/24/2018 23:13
Chloroethane	< 8.93	ug/Kg		8/24/2018 23:13
Chloroform	< 8.93	ug/Kg		8/24/2018 23:13

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 5
Lab Sample ID: 183805-05 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 8.93	ug/Kg	8/24/2018	23:13
cis-1,2-Dichloroethene	< 8.93	ug/Kg	8/24/2018	23:13
cis-1,3-Dichloropropene	< 8.93	ug/Kg	8/24/2018	23:13
Cyclohexane	< 44.7	ug/Kg	8/24/2018	23:13
Dibromochloromethane	< 8.93	ug/Kg	8/24/2018	23:13
Dichlorodifluoromethane	< 8.93	ug/Kg	8/24/2018	23:13
Ethylbenzene	< 8.93	ug/Kg	8/24/2018	23:13
Freon 113	< 8.93	ug/Kg	8/24/2018	23:13
Isopropylbenzene	< 8.93	ug/Kg	8/24/2018	23:13
m,p-Xylene	< 8.93	ug/Kg	8/24/2018	23:13
Methyl acetate	< 8.93	ug/Kg	8/24/2018	23:13
Methyl tert-butyl Ether	< 8.93	ug/Kg	8/24/2018	23:13
Methylcyclohexane	< 8.93	ug/Kg	8/24/2018	23:13
Methylene chloride	< 22.3	ug/Kg	8/24/2018	23:13
o-Xylene	< 8.93	ug/Kg	8/24/2018	23:13
Styrene	< 22.3	ug/Kg	8/24/2018	23:13
Tetrachloroethene	< 8.93	ug/Kg	8/24/2018	23:13
Toluene	< 8.93	ug/Kg	8/24/2018	23:13
trans-1,2-Dichloroethene	< 8.93	ug/Kg	8/24/2018	23:13
trans-1,3-Dichloropropene	< 8.93	ug/Kg	8/24/2018	23:13
Trichloroethene	< 8.93	ug/Kg	8/24/2018	23:13
Trichlorofluoromethane	< 8.93	ug/Kg	8/24/2018	23:13
Vinyl chloride	< 8.93	ug/Kg	8/24/2018	23:13

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 5

Lab Sample ID: 183805-05 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	80.4 - 128		8/24/2018	23:13
4-Bromofluorobenzene	**98.3**	75.7 - 120		8/24/2018	23:13
Pentafluorobenzene	**99.4**	85.3 - 111		8/24/2018	23:13
Toluene-D8	**91.5**	85 - 112		8/24/2018	23:13

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53513.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 6
Lab Sample ID: 183805-06 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.77	ug/Kg		8/24/2018 23:37
1,1,2,2-Tetrachloroethane	< 7.77	ug/Kg		8/24/2018 23:37
1,1,2-Trichloroethane	< 7.77	ug/Kg		8/24/2018 23:37
1,1-Dichloroethane	< 7.77	ug/Kg		8/24/2018 23:37
1,1-Dichloroethene	< 7.77	ug/Kg		8/24/2018 23:37
1,2,3-Trichlorobenzene	< 19.4	ug/Kg		8/24/2018 23:37
1,2,4-Trichlorobenzene	< 19.4	ug/Kg		8/24/2018 23:37
1,2-Dibromo-3-Chloropropane	< 38.9	ug/Kg		8/24/2018 23:37
1,2-Dibromoethane	< 7.77	ug/Kg		8/24/2018 23:37
1,2-Dichlorobenzene	< 7.77	ug/Kg		8/24/2018 23:37
1,2-Dichloroethane	< 7.77	ug/Kg		8/24/2018 23:37
1,2-Dichloropropane	< 7.77	ug/Kg		8/24/2018 23:37
1,3-Dichlorobenzene	< 7.77	ug/Kg		8/24/2018 23:37
1,4-Dichlorobenzene	< 7.77	ug/Kg		8/24/2018 23:37
1,4-Dioxane	< 77.7	ug/Kg		8/24/2018 23:37
2-Butanone	< 38.9	ug/Kg		8/24/2018 23:37
2-Hexanone	< 19.4	ug/Kg		8/24/2018 23:37
4-Methyl-2-pentanone	< 19.4	ug/Kg		8/24/2018 23:37
Acetone	< 38.9	ug/Kg		8/24/2018 23:37
Benzene	< 7.77	ug/Kg		8/24/2018 23:37
Bromochloromethane	< 19.4	ug/Kg		8/24/2018 23:37
Bromodichloromethane	< 7.77	ug/Kg		8/24/2018 23:37
Bromoform	< 19.4	ug/Kg		8/24/2018 23:37
Bromomethane	< 7.77	ug/Kg		8/24/2018 23:37
Carbon disulfide	< 7.77	ug/Kg		8/24/2018 23:37
Carbon Tetrachloride	< 7.77	ug/Kg		8/24/2018 23:37
Chlorobenzene	< 7.77	ug/Kg		8/24/2018 23:37
Chloroethane	< 7.77	ug/Kg		8/24/2018 23:37
Chloroform	< 7.77	ug/Kg		8/24/2018 23:37

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 6
Lab Sample ID: 183805-06 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 7.77	ug/Kg	8/24/2018	23:37
cis-1,2-Dichloroethene	< 7.77	ug/Kg	8/24/2018	23:37
cis-1,3-Dichloropropene	< 7.77	ug/Kg	8/24/2018	23:37
Cyclohexane	< 38.9	ug/Kg	8/24/2018	23:37
Dibromochloromethane	< 7.77	ug/Kg	8/24/2018	23:37
Dichlorodifluoromethane	< 7.77	ug/Kg	8/24/2018	23:37
Ethylbenzene	< 7.77	ug/Kg	8/24/2018	23:37
Freon 113	< 7.77	ug/Kg	8/24/2018	23:37
Isopropylbenzene	< 7.77	ug/Kg	8/24/2018	23:37
m,p-Xylene	< 7.77	ug/Kg	8/24/2018	23:37
Methyl acetate	< 7.77	ug/Kg	8/24/2018	23:37
Methyl tert-butyl Ether	< 7.77	ug/Kg	8/24/2018	23:37
Methylcyclohexane	< 7.77	ug/Kg	8/24/2018	23:37
Methylene chloride	< 19.4	ug/Kg	8/24/2018	23:37
o-Xylene	< 7.77	ug/Kg	8/24/2018	23:37
Styrene	< 19.4	ug/Kg	8/24/2018	23:37
Tetrachloroethene	< 7.77	ug/Kg	8/24/2018	23:37
Toluene	< 7.77	ug/Kg	8/24/2018	23:37
trans-1,2-Dichloroethene	< 7.77	ug/Kg	8/24/2018	23:37
trans-1,3-Dichloropropene	< 7.77	ug/Kg	8/24/2018	23:37
Trichloroethene	< 7.77	ug/Kg	8/24/2018	23:37
Trichlorofluoromethane	< 7.77	ug/Kg	8/24/2018	23:37
Vinyl chloride	< 7.77	ug/Kg	8/24/2018	23:37

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 6

Lab Sample ID: 183805-06 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	80.4 - 128		8/24/2018	23:37
4-Bromofluorobenzene	**88.8**	75.7 - 120		8/24/2018	23:37
Pentafluorobenzene	**100**	85.3 - 111		8/24/2018	23:37
Toluene-D8	**87.8**	85 - 112		8/24/2018	23:37

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53514.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 7
Lab Sample ID: 183805-07 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.90	ug/Kg		8/25/2018 00:01
1,1,2,2-Tetrachloroethane	< 7.90	ug/Kg		8/25/2018 00:01
1,1,2-Trichloroethane	< 7.90	ug/Kg		8/25/2018 00:01
1,1-Dichloroethane	< 7.90	ug/Kg		8/25/2018 00:01
1,1-Dichloroethene	< 7.90	ug/Kg		8/25/2018 00:01
1,2,3-Trichlorobenzene	< 19.8	ug/Kg		8/25/2018 00:01
1,2,4-Trichlorobenzene	< 19.8	ug/Kg		8/25/2018 00:01
1,2-Dibromo-3-Chloropropane	< 39.5	ug/Kg		8/25/2018 00:01
1,2-Dibromoethane	< 7.90	ug/Kg		8/25/2018 00:01
1,2-Dichlorobenzene	< 7.90	ug/Kg		8/25/2018 00:01
1,2-Dichloroethane	< 7.90	ug/Kg		8/25/2018 00:01
1,2-Dichloropropane	< 7.90	ug/Kg		8/25/2018 00:01
1,3-Dichlorobenzene	< 7.90	ug/Kg		8/25/2018 00:01
1,4-Dichlorobenzene	< 7.90	ug/Kg		8/25/2018 00:01
1,4-Dioxane	< 79.0	ug/Kg		8/25/2018 00:01
2-Butanone	< 39.5	ug/Kg		8/25/2018 00:01
2-Hexanone	< 19.8	ug/Kg		8/25/2018 00:01
4-Methyl-2-pentanone	< 19.8	ug/Kg		8/25/2018 00:01
Acetone	< 39.5	ug/Kg		8/25/2018 00:01
Benzene	**10.6**	ug/Kg		8/25/2018 00:01
Bromochloromethane	< 19.8	ug/Kg		8/25/2018 00:01
Bromodichloromethane	< 7.90	ug/Kg		8/25/2018 00:01
Bromoform	< 19.8	ug/Kg		8/25/2018 00:01
Bromomethane	< 7.90	ug/Kg		8/25/2018 00:01
Carbon disulfide	< 7.90	ug/Kg		8/25/2018 00:01
Carbon Tetrachloride	< 7.90	ug/Kg		8/25/2018 00:01
Chlorobenzene	< 7.90	ug/Kg		8/25/2018 00:01
Chloroethane	< 7.90	ug/Kg		8/25/2018 00:01
Chloroform	< 7.90	ug/Kg		8/25/2018 00:01

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 7
Lab Sample ID: 183805-07 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 7.90	ug/Kg	8/25/2018	00:01
cis-1,2-Dichloroethene	< 7.90	ug/Kg	8/25/2018	00:01
cis-1,3-Dichloropropene	< 7.90	ug/Kg	8/25/2018	00:01
Cyclohexane	< 39.5	ug/Kg	8/25/2018	00:01
Dibromochloromethane	< 7.90	ug/Kg	8/25/2018	00:01
Dichlorodifluoromethane	< 7.90	ug/Kg	8/25/2018	00:01
Ethylbenzene	**9.44**	ug/Kg	8/25/2018	00:01
Freon 113	< 7.90	ug/Kg	8/25/2018	00:01
Isopropylbenzene	< 7.90	ug/Kg	8/25/2018	00:01
m,p-Xylene	**29.1**	ug/Kg	8/25/2018	00:01
Methyl acetate	< 7.90	ug/Kg	8/25/2018	00:01
Methyl tert-butyl Ether	< 7.90	ug/Kg	8/25/2018	00:01
Methylcyclohexane	< 7.90	ug/Kg	8/25/2018	00:01
Methylene chloride	< 19.8	ug/Kg	8/25/2018	00:01
o-Xylene	**17.4**	ug/Kg	8/25/2018	00:01
Styrene	< 19.8	ug/Kg	8/25/2018	00:01
Tetrachloroethene	< 7.90	ug/Kg	8/25/2018	00:01
Toluene	**11.2**	ug/Kg	8/25/2018	00:01
trans-1,2-Dichloroethene	< 7.90	ug/Kg	8/25/2018	00:01
trans-1,3-Dichloropropene	< 7.90	ug/Kg	8/25/2018	00:01
Trichloroethene	< 7.90	ug/Kg	8/25/2018	00:01
Trichlorofluoromethane	< 7.90	ug/Kg	8/25/2018	00:01
Vinyl chloride	< 7.90	ug/Kg	8/25/2018	00:01

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 7

Lab Sample ID: 183805-07 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	80.4 - 128		8/25/2018	00:01
4-Bromofluorobenzene	**93.1**	75.7 - 120		8/25/2018	00:01
Pentafluorobenzene	**96.7**	85.3 - 111		8/25/2018	00:01
Toluene-D8	**88.9**	85 - 112		8/25/2018	00:01

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53515.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 8
Lab Sample ID: 183805-08 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 7.40	ug/Kg		8/25/2018 00:25
1,1,2,2-Tetrachloroethane	< 7.40	ug/Kg		8/25/2018 00:25
1,1,2-Trichloroethane	< 7.40	ug/Kg		8/25/2018 00:25
1,1-Dichloroethane	< 7.40	ug/Kg		8/25/2018 00:25
1,1-Dichloroethene	< 7.40	ug/Kg		8/25/2018 00:25
1,2,3-Trichlorobenzene	< 18.5	ug/Kg		8/25/2018 00:25
1,2,4-Trichlorobenzene	< 18.5	ug/Kg		8/25/2018 00:25
1,2-Dibromo-3-Chloropropane	< 37.0	ug/Kg		8/25/2018 00:25
1,2-Dibromoethane	< 7.40	ug/Kg		8/25/2018 00:25
1,2-Dichlorobenzene	< 7.40	ug/Kg		8/25/2018 00:25
1,2-Dichloroethane	< 7.40	ug/Kg		8/25/2018 00:25
1,2-Dichloropropane	< 7.40	ug/Kg		8/25/2018 00:25
1,3-Dichlorobenzene	< 7.40	ug/Kg		8/25/2018 00:25
1,4-Dichlorobenzene	< 7.40	ug/Kg		8/25/2018 00:25
1,4-Dioxane	< 74.0	ug/Kg		8/25/2018 00:25
2-Butanone	< 37.0	ug/Kg		8/25/2018 00:25
2-Hexanone	< 18.5	ug/Kg		8/25/2018 00:25
4-Methyl-2-pentanone	< 18.5	ug/Kg		8/25/2018 00:25
Acetone	< 37.0	ug/Kg		8/25/2018 00:25
Benzene	< 7.40	ug/Kg		8/25/2018 00:25
Bromochloromethane	< 18.5	ug/Kg		8/25/2018 00:25
Bromodichloromethane	< 7.40	ug/Kg		8/25/2018 00:25
Bromoform	< 18.5	ug/Kg		8/25/2018 00:25
Bromomethane	< 7.40	ug/Kg		8/25/2018 00:25
Carbon disulfide	< 7.40	ug/Kg		8/25/2018 00:25
Carbon Tetrachloride	< 7.40	ug/Kg		8/25/2018 00:25
Chlorobenzene	< 7.40	ug/Kg		8/25/2018 00:25
Chloroethane	< 7.40	ug/Kg		8/25/2018 00:25
Chloroform	< 7.40	ug/Kg		8/25/2018 00:25

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 8
Lab Sample ID: 183805-08 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 7.40	ug/Kg	8/25/2018	00:25
cis-1,2-Dichloroethene	< 7.40	ug/Kg	8/25/2018	00:25
cis-1,3-Dichloropropene	< 7.40	ug/Kg	8/25/2018	00:25
Cyclohexane	< 37.0	ug/Kg	8/25/2018	00:25
Dibromochloromethane	< 7.40	ug/Kg	8/25/2018	00:25
Dichlorodifluoromethane	< 7.40	ug/Kg	8/25/2018	00:25
Ethylbenzene	< 7.40	ug/Kg	8/25/2018	00:25
Freon 113	< 7.40	ug/Kg	8/25/2018	00:25
Isopropylbenzene	< 7.40	ug/Kg	8/25/2018	00:25
m,p-Xylene	< 7.40	ug/Kg	8/25/2018	00:25
Methyl acetate	< 7.40	ug/Kg	8/25/2018	00:25
Methyl tert-butyl Ether	< 7.40	ug/Kg	8/25/2018	00:25
Methylcyclohexane	< 7.40	ug/Kg	8/25/2018	00:25
Methylene chloride	< 18.5	ug/Kg	8/25/2018	00:25
o-Xylene	< 7.40	ug/Kg	8/25/2018	00:25
Styrene	< 18.5	ug/Kg	8/25/2018	00:25
Tetrachloroethene	< 7.40	ug/Kg	8/25/2018	00:25
Toluene	< 7.40	ug/Kg	8/25/2018	00:25
trans-1,2-Dichloroethene	< 7.40	ug/Kg	8/25/2018	00:25
trans-1,3-Dichloropropene	< 7.40	ug/Kg	8/25/2018	00:25
Trichloroethene	< 7.40	ug/Kg	8/25/2018	00:25
Trichlorofluoromethane	< 7.40	ug/Kg	8/25/2018	00:25
Vinyl chloride	< 7.40	ug/Kg	8/25/2018	00:25

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 8

Lab Sample ID: 183805-08 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	80.4 - 128		8/25/2018	00:25
4-Bromofluorobenzene	**96.1**	75.7 - 120		8/25/2018	00:25
Pentafluorobenzene	**96.5**	85.3 - 111		8/25/2018	00:25
Toluene-D8	**92.7**	85 - 112		8/25/2018	00:25

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53516.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 9
Lab Sample ID: 183805-09 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.1	ug/Kg		8/25/2018 00:49
1,1,2,2-Tetrachloroethane	< 10.1	ug/Kg		8/25/2018 00:49
1,1,2-Trichloroethane	< 10.1	ug/Kg		8/25/2018 00:49
1,1-Dichloroethane	< 10.1	ug/Kg		8/25/2018 00:49
1,1-Dichloroethene	< 10.1	ug/Kg		8/25/2018 00:49
1,2,3-Trichlorobenzene	< 25.2	ug/Kg		8/25/2018 00:49
1,2,4-Trichlorobenzene	< 25.2	ug/Kg		8/25/2018 00:49
1,2-Dibromo-3-Chloropropane	< 50.5	ug/Kg		8/25/2018 00:49
1,2-Dibromoethane	< 10.1	ug/Kg		8/25/2018 00:49
1,2-Dichlorobenzene	< 10.1	ug/Kg		8/25/2018 00:49
1,2-Dichloroethane	< 10.1	ug/Kg		8/25/2018 00:49
1,2-Dichloropropane	< 10.1	ug/Kg		8/25/2018 00:49
1,3-Dichlorobenzene	< 10.1	ug/Kg		8/25/2018 00:49
1,4-Dichlorobenzene	< 10.1	ug/Kg		8/25/2018 00:49
1,4-Dioxane	< 101	ug/Kg		8/25/2018 00:49
2-Butanone	< 50.5	ug/Kg		8/25/2018 00:49
2-Hexanone	< 25.2	ug/Kg		8/25/2018 00:49
4-Methyl-2-pentanone	< 25.2	ug/Kg		8/25/2018 00:49
Acetone	< 50.5	ug/Kg		8/25/2018 00:49
Benzene	**17.7**	ug/Kg		8/25/2018 00:49
Bromochloromethane	< 25.2	ug/Kg		8/25/2018 00:49
Bromodichloromethane	< 10.1	ug/Kg		8/25/2018 00:49
Bromoform	< 25.2	ug/Kg		8/25/2018 00:49
Bromomethane	< 10.1	ug/Kg		8/25/2018 00:49
Carbon disulfide	< 10.1	ug/Kg		8/25/2018 00:49
Carbon Tetrachloride	< 10.1	ug/Kg		8/25/2018 00:49
Chlorobenzene	< 10.1	ug/Kg		8/25/2018 00:49
Chloroethane	< 10.1	ug/Kg		8/25/2018 00:49
Chloroform	< 10.1	ug/Kg		8/25/2018 00:49

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 9
Lab Sample ID: 183805-09 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 10.1	ug/Kg	8/25/2018	00:49
cis-1,2-Dichloroethene	< 10.1	ug/Kg	8/25/2018	00:49
cis-1,3-Dichloropropene	< 10.1	ug/Kg	8/25/2018	00:49
Cyclohexane	< 50.5	ug/Kg	8/25/2018	00:49
Dibromochloromethane	< 10.1	ug/Kg	8/25/2018	00:49
Dichlorodifluoromethane	< 10.1	ug/Kg	8/25/2018	00:49
Ethylbenzene	**47.8**	ug/Kg	8/25/2018	00:49
Freon 113	< 10.1	ug/Kg	8/25/2018	00:49
Isopropylbenzene	< 10.1	ug/Kg	8/25/2018	00:49
m,p-Xylene	**351**	ug/Kg	8/25/2018	00:49
Methyl acetate	< 10.1	ug/Kg	8/25/2018	00:49
Methyl tert-butyl Ether	< 10.1	ug/Kg	8/25/2018	00:49
Methylcyclohexane	< 10.1	ug/Kg	8/25/2018	00:49
Methylene chloride	< 25.2	ug/Kg	8/25/2018	00:49
o-Xylene	**215**	ug/Kg	8/25/2018	00:49
Styrene	**91.8**	ug/Kg	8/25/2018	00:49
Tetrachloroethene	< 10.1	ug/Kg	8/25/2018	00:49
Toluene	**50.2**	ug/Kg	8/25/2018	00:49
trans-1,2-Dichloroethene	< 10.1	ug/Kg	8/25/2018	00:49
trans-1,3-Dichloropropene	< 10.1	ug/Kg	8/25/2018	00:49
Trichloroethene	< 10.1	ug/Kg	8/25/2018	00:49
Trichlorofluoromethane	< 10.1	ug/Kg	8/25/2018	00:49
Vinyl chloride	< 10.1	ug/Kg	8/25/2018	00:49

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 9

Lab Sample ID: 183805-09 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	80.4 - 128		8/25/2018	00:49
4-Bromofluorobenzene	**92.0**	75.7 - 120		8/25/2018	00:49
Pentafluorobenzene	**95.3**	85.3 - 111		8/25/2018	00:49
Toluene-D8	**93.8**	85 - 112		8/25/2018	00:49

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53517.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 10
Lab Sample ID: 183805-10 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.77	ug/Kg		8/25/2018 01:13
1,1,2,2-Tetrachloroethane	< 6.77	ug/Kg		8/25/2018 01:13
1,1,2-Trichloroethane	< 6.77	ug/Kg		8/25/2018 01:13
1,1-Dichloroethane	< 6.77	ug/Kg		8/25/2018 01:13
1,1-Dichloroethene	< 6.77	ug/Kg		8/25/2018 01:13
1,2,3-Trichlorobenzene	< 16.9	ug/Kg		8/25/2018 01:13
1,2,4-Trichlorobenzene	< 16.9	ug/Kg		8/25/2018 01:13
1,2-Dibromo-3-Chloropropane	< 33.9	ug/Kg		8/25/2018 01:13
1,2-Dibromoethane	< 6.77	ug/Kg		8/25/2018 01:13
1,2-Dichlorobenzene	< 6.77	ug/Kg		8/25/2018 01:13
1,2-Dichloroethane	< 6.77	ug/Kg		8/25/2018 01:13
1,2-Dichloropropane	< 6.77	ug/Kg		8/25/2018 01:13
1,3-Dichlorobenzene	< 6.77	ug/Kg		8/25/2018 01:13
1,4-Dichlorobenzene	< 6.77	ug/Kg		8/25/2018 01:13
1,4-Dioxane	< 67.7	ug/Kg		8/25/2018 01:13
2-Butanone	< 33.9	ug/Kg		8/25/2018 01:13
2-Hexanone	< 16.9	ug/Kg		8/25/2018 01:13
4-Methyl-2-pentanone	< 16.9	ug/Kg		8/25/2018 01:13
Acetone	< 33.9	ug/Kg		8/25/2018 01:13
Benzene	< 6.77	ug/Kg		8/25/2018 01:13
Bromochloromethane	< 16.9	ug/Kg		8/25/2018 01:13
Bromodichloromethane	< 6.77	ug/Kg		8/25/2018 01:13
Bromoform	< 16.9	ug/Kg		8/25/2018 01:13
Bromomethane	< 6.77	ug/Kg		8/25/2018 01:13
Carbon disulfide	< 6.77	ug/Kg		8/25/2018 01:13
Carbon Tetrachloride	< 6.77	ug/Kg		8/25/2018 01:13
Chlorobenzene	< 6.77	ug/Kg		8/25/2018 01:13
Chloroethane	< 6.77	ug/Kg		8/25/2018 01:13
Chloroform	< 6.77	ug/Kg		8/25/2018 01:13

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 10
Lab Sample ID: 183805-10 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 6.77	ug/Kg	8/25/2018	01:13
cis-1,2-Dichloroethene	< 6.77	ug/Kg	8/25/2018	01:13
cis-1,3-Dichloropropene	< 6.77	ug/Kg	8/25/2018	01:13
Cyclohexane	< 33.9	ug/Kg	8/25/2018	01:13
Dibromochloromethane	< 6.77	ug/Kg	8/25/2018	01:13
Dichlorodifluoromethane	< 6.77	ug/Kg	8/25/2018	01:13
Ethylbenzene	< 6.77	ug/Kg	8/25/2018	01:13
Freon 113	< 6.77	ug/Kg	8/25/2018	01:13
Isopropylbenzene	< 6.77	ug/Kg	8/25/2018	01:13
m,p-Xylene	< 6.77	ug/Kg	8/25/2018	01:13
Methyl acetate	< 6.77	ug/Kg	8/25/2018	01:13
Methyl tert-butyl Ether	< 6.77	ug/Kg	8/25/2018	01:13
Methylcyclohexane	< 6.77	ug/Kg	8/25/2018	01:13
Methylene chloride	< 16.9	ug/Kg	8/25/2018	01:13
o-Xylene	< 6.77	ug/Kg	8/25/2018	01:13
Styrene	< 16.9	ug/Kg	8/25/2018	01:13
Tetrachloroethene	< 6.77	ug/Kg	8/25/2018	01:13
Toluene	< 6.77	ug/Kg	8/25/2018	01:13
trans-1,2-Dichloroethene	< 6.77	ug/Kg	8/25/2018	01:13
trans-1,3-Dichloropropene	< 6.77	ug/Kg	8/25/2018	01:13
Trichloroethene	< 6.77	ug/Kg	8/25/2018	01:13
Trichlorofluoromethane	< 6.77	ug/Kg	8/25/2018	01:13
Vinyl chloride	< 6.77	ug/Kg	8/25/2018	01:13

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 10

Lab Sample ID: 183805-10 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**100**	80.4 - 128		8/25/2018	01:13
4-Bromofluorobenzene	**102**	75.7 - 120		8/25/2018	01:13
Pentafluorobenzene	**98.6**	85.3 - 111		8/25/2018	01:13
Toluene-D8	**99.6**	85 - 112		8/25/2018	01:13

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53518.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 11
Lab Sample ID: 183805-11 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 6.58	ug/Kg		8/25/2018 01:37
1,1,2,2-Tetrachloroethane	< 6.58	ug/Kg		8/25/2018 01:37
1,1,2-Trichloroethane	< 6.58	ug/Kg		8/25/2018 01:37
1,1-Dichloroethane	< 6.58	ug/Kg		8/25/2018 01:37
1,1-Dichloroethene	< 6.58	ug/Kg		8/25/2018 01:37
1,2,3-Trichlorobenzene	< 16.5	ug/Kg		8/25/2018 01:37
1,2,4-Trichlorobenzene	< 16.5	ug/Kg		8/25/2018 01:37
1,2-Dibromo-3-Chloropropane	< 32.9	ug/Kg		8/25/2018 01:37
1,2-Dibromoethane	< 6.58	ug/Kg		8/25/2018 01:37
1,2-Dichlorobenzene	< 6.58	ug/Kg		8/25/2018 01:37
1,2-Dichloroethane	< 6.58	ug/Kg		8/25/2018 01:37
1,2-Dichloropropane	< 6.58	ug/Kg		8/25/2018 01:37
1,3-Dichlorobenzene	< 6.58	ug/Kg		8/25/2018 01:37
1,4-Dichlorobenzene	< 6.58	ug/Kg		8/25/2018 01:37
1,4-Dioxane	< 65.8	ug/Kg		8/25/2018 01:37
2-Butanone	< 32.9	ug/Kg		8/25/2018 01:37
2-Hexanone	< 16.5	ug/Kg		8/25/2018 01:37
4-Methyl-2-pentanone	< 16.5	ug/Kg		8/25/2018 01:37
Acetone	< 32.9	ug/Kg		8/25/2018 01:37
Benzene	< 6.58	ug/Kg		8/25/2018 01:37
Bromochloromethane	< 16.5	ug/Kg		8/25/2018 01:37
Bromodichloromethane	< 6.58	ug/Kg		8/25/2018 01:37
Bromoform	< 16.5	ug/Kg		8/25/2018 01:37
Bromomethane	< 6.58	ug/Kg		8/25/2018 01:37
Carbon disulfide	< 6.58	ug/Kg		8/25/2018 01:37
Carbon Tetrachloride	< 6.58	ug/Kg		8/25/2018 01:37
Chlorobenzene	< 6.58	ug/Kg		8/25/2018 01:37
Chloroethane	< 6.58	ug/Kg		8/25/2018 01:37
Chloroform	< 6.58	ug/Kg		8/25/2018 01:37

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 11
Lab Sample ID: 183805-11 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Chloromethane	< 6.58	ug/Kg	8/25/2018	01:37
cis-1,2-Dichloroethene	< 6.58	ug/Kg	8/25/2018	01:37
cis-1,3-Dichloropropene	< 6.58	ug/Kg	8/25/2018	01:37
Cyclohexane	< 32.9	ug/Kg	8/25/2018	01:37
Dibromochloromethane	< 6.58	ug/Kg	8/25/2018	01:37
Dichlorodifluoromethane	< 6.58	ug/Kg	8/25/2018	01:37
Ethylbenzene	< 6.58	ug/Kg	8/25/2018	01:37
Freon 113	< 6.58	ug/Kg	8/25/2018	01:37
Isopropylbenzene	< 6.58	ug/Kg	8/25/2018	01:37
m,p-Xylene	< 6.58	ug/Kg	8/25/2018	01:37
Methyl acetate	< 6.58	ug/Kg	8/25/2018	01:37
Methyl tert-butyl Ether	< 6.58	ug/Kg	8/25/2018	01:37
Methylcyclohexane	< 6.58	ug/Kg	8/25/2018	01:37
Methylene chloride	< 16.5	ug/Kg	8/25/2018	01:37
o-Xylene	< 6.58	ug/Kg	8/25/2018	01:37
Styrene	< 16.5	ug/Kg	8/25/2018	01:37
Tetrachloroethene	< 6.58	ug/Kg	8/25/2018	01:37
Toluene	< 6.58	ug/Kg	8/25/2018	01:37
trans-1,2-Dichloroethene	< 6.58	ug/Kg	8/25/2018	01:37
trans-1,3-Dichloropropene	< 6.58	ug/Kg	8/25/2018	01:37
Trichloroethene	< 6.58	ug/Kg	8/25/2018	01:37
Trichlorofluoromethane	< 6.58	ug/Kg	8/25/2018	01:37
Vinyl chloride	< 6.58	ug/Kg	8/25/2018	01:37

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 11

Lab Sample ID: 183805-11 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	80.4 - 128		8/25/2018	01:37
4-Bromofluorobenzene	**91.9**	75.7 - 120		8/25/2018	01:37
Pentafluorobenzene	**101**	85.3 - 111		8/25/2018	01:37
Toluene-D8	**93.3**	85 - 112		8/25/2018	01:37

Method Reference(s): EPA 8260C
EPA 5035A - L

Data File: x53519.D

This sample was not collected following SW846 5035A specifications. Accordingly, any Volatiles soil results that are less than 200 ug/Kg, including Non Detects, may be biased low, per ELAP method 5035 guidance document from 11/15/2012.

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 1-3
Lab Sample ID: 183805-12 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 35800	ug/Kg		8/27/2018 20:19
1,2,4,5-Tetrachlorobenzene	< 35800	ug/Kg		8/27/2018 20:19
1,2,4-Trichlorobenzene	< 35800	ug/Kg		8/27/2018 20:19
1,2-Dichlorobenzene	< 35800	ug/Kg		8/27/2018 20:19
1,3-Dichlorobenzene	< 35800	ug/Kg		8/27/2018 20:19
1,4-Dichlorobenzene	< 35800	ug/Kg		8/27/2018 20:19
2,2-Oxybis (1-chloropropane)	< 35800	ug/Kg		8/27/2018 20:19
2,3,4,6-Tetrachlorophenol	< 35800	ug/Kg		8/27/2018 20:19
2,4,5-Trichlorophenol	< 35800	ug/Kg		8/27/2018 20:19
2,4,6-Trichlorophenol	< 35800	ug/Kg		8/27/2018 20:19
2,4-Dichlorophenol	< 35800	ug/Kg		8/27/2018 20:19
2,4-Dimethylphenol	< 35800	ug/Kg		8/27/2018 20:19
2,4-Dinitrophenol	< 143000	ug/Kg		8/27/2018 20:19
2,4-Dinitrotoluene	< 35800	ug/Kg		8/27/2018 20:19
2,6-Dinitrotoluene	< 35800	ug/Kg		8/27/2018 20:19
2-Chloronaphthalene	< 35800	ug/Kg		8/27/2018 20:19
2-Chlorophenol	< 35800	ug/Kg		8/27/2018 20:19
2-Methylnapthalene	**51100**	ug/Kg		8/27/2018 20:19
2-Methylphenol	< 35800	ug/Kg		8/27/2018 20:19
2-Nitroaniline	< 35800	ug/Kg		8/27/2018 20:19
2-Nitrophenol	< 35800	ug/Kg		8/27/2018 20:19
3&4-Methylphenol	< 35800	ug/Kg		8/27/2018 20:19
3,3'-Dichlorobenzidine	< 35800	ug/Kg		8/27/2018 20:19
3-Nitroaniline	< 35800	ug/Kg		8/27/2018 20:19
4,6-Dinitro-2-methylphenol	< 47900	ug/Kg		8/27/2018 20:19
4-Bromophenyl phenyl ether	< 35800	ug/Kg		8/27/2018 20:19
4-Chloro-3-methylphenol	< 35800	ug/Kg		8/27/2018 20:19
4-Chloroaniline	< 35800	ug/Kg		8/27/2018 20:19
4-Chlorophenyl phenyl ether	< 35800	ug/Kg		8/27/2018 20:19

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 1-3
Lab Sample ID: 183805-12 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

4-Nitroaniline	< 35800	ug/Kg	8/27/2018	20:19
4-Nitrophenol	< 35800	ug/Kg	8/27/2018	20:19
Acenaphthene	**37200**	ug/Kg	8/27/2018	20:19
Acenaphthylene	**92400**	ug/Kg	8/27/2018	20:19
Acetophenone	< 35800	ug/Kg	8/27/2018	20:19
Anthracene	**156000**	ug/Kg	8/27/2018	20:19
Atrazine	< 35800	ug/Kg	8/27/2018	20:19
Benzaldehyde	< 35800	ug/Kg	8/27/2018	20:19
Benzo (a) anthracene	**200000**	ug/Kg	8/27/2018	20:19
Benzo (a) pyrene	**133000**	ug/Kg	8/27/2018	20:19
Benzo (b) fluoranthene	**108000**	ug/Kg	8/27/2018	20:19
Benzo (g,h,i) perylene	**72700**	ug/Kg	8/27/2018	20:19
Benzo (k) fluoranthene	**125000**	ug/Kg	8/27/2018	20:19
Bis (2-chloroethoxy) methane	< 35800	ug/Kg	8/27/2018	20:19
Bis (2-chloroethyl) ether	< 35800	ug/Kg	8/27/2018	20:19
Bis (2-ethylhexyl) phthalate	< 35800	ug/Kg	8/27/2018	20:19
Butylbenzylphthalate	< 35800	ug/Kg	8/27/2018	20:19
Caprolactam	< 35800	ug/Kg	8/27/2018	20:19
Carbazole	**70300**	ug/Kg	8/27/2018	20:19
Chrysene	**171000**	ug/Kg	8/27/2018	20:19
Dibenz (a,h) anthracene	< 35800	ug/Kg	8/27/2018	20:19
Dibenzofuran	**103000**	ug/Kg	8/27/2018	20:19
Diethyl phthalate	< 35800	ug/Kg	8/27/2018	20:19
Dimethyl phthalate	< 35800	ug/Kg	8/27/2018	20:19
Di-n-butyl phthalate	< 35800	ug/Kg	8/27/2018	20:19
Di-n-octylphthalate	< 35800	ug/Kg	8/27/2018	20:19
Fluoranthene	**595000**	ug/Kg	8/27/2018	20:19
Fluorene	**163000**	ug/Kg	8/27/2018	20:19
Hexachlorobenzene	< 35800	ug/Kg	8/27/2018	20:19
Hexachlorobutadiene	< 35800	ug/Kg	8/27/2018	20:19
Hexachlorocyclopentadiene	< 143000	ug/Kg	8/27/2018	20:19
Hexachloroethane	< 35800	ug/Kg	8/27/2018	20:19

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 1-3
Lab Sample ID: 183805-12 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Indeno (1,2,3-cd) pyrene	**65000**	ug/Kg	8/27/2018	20:19
Isophorone	< 35800	ug/Kg	8/27/2018	20:19
Naphthalene	**235000**	ug/Kg	8/27/2018	20:19
Nitrobenzene	< 35800	ug/Kg	8/27/2018	20:19
N-Nitroso-di-n-propylamine	< 35800	ug/Kg	8/27/2018	20:19
N-Nitrosodiphenylamine	< 35800	ug/Kg	8/27/2018	20:19
Pentachlorophenol	< 71600	ug/Kg	8/27/2018	20:19
Phenanthrene	**746000**	ug/Kg	8/27/2018	20:19
Phenol	< 35800	ug/Kg	8/27/2018	20:19
Pyrene	**422000**	ug/Kg	8/27/2018	20:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	35.7 - 94.4		8/27/2018	20:19
2-Fluorobiphenyl	NC	35.7 - 85.7		8/27/2018	20:19
2-Fluorophenol	NC	39.4 - 78.1		8/27/2018	20:19
Nitrobenzene-d5	NC	36.1 - 74.4		8/27/2018	20:19
Phenol-d5	NC	40.6 - 79.3		8/27/2018	20:19
Terphenyl-d14	NC	46.6 - 99.9		8/27/2018	20:19

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2018
Data File: B30807.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 4-6
Lab Sample ID: 183805-13 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 34200	ug/Kg		8/25/2018 03:29
1,2,4,5-Tetrachlorobenzene	< 34200	ug/Kg		8/25/2018 03:29
1,2,4-Trichlorobenzene	< 34200	ug/Kg		8/25/2018 03:29
1,2-Dichlorobenzene	< 34200	ug/Kg		8/25/2018 03:29
1,3-Dichlorobenzene	< 34200	ug/Kg		8/25/2018 03:29
1,4-Dichlorobenzene	< 34200	ug/Kg		8/25/2018 03:29
2,2-Oxybis (1-chloropropane)	< 34200	ug/Kg		8/25/2018 03:29
2,3,4,6-Tetrachlorophenol	< 34200	ug/Kg		8/25/2018 03:29
2,4,5-Trichlorophenol	< 34200	ug/Kg		8/25/2018 03:29
2,4,6-Trichlorophenol	< 34200	ug/Kg		8/25/2018 03:29
2,4-Dichlorophenol	< 34200	ug/Kg		8/25/2018 03:29
2,4-Dimethylphenol	< 34200	ug/Kg		8/25/2018 03:29
2,4-Dinitrophenol	< 137000	ug/Kg		8/25/2018 03:29
2,4-Dinitrotoluene	< 34200	ug/Kg		8/25/2018 03:29
2,6-Dinitrotoluene	< 34200	ug/Kg		8/25/2018 03:29
2-Chloronaphthalene	< 34200	ug/Kg		8/25/2018 03:29
2-Chlorophenol	< 34200	ug/Kg		8/25/2018 03:29
2-Methylnapthalene	**95900**	ug/Kg		8/25/2018 03:29
2-Methylphenol	< 34200	ug/Kg		8/25/2018 03:29
2-Nitroaniline	< 34200	ug/Kg		8/25/2018 03:29
2-Nitrophenol	< 34200	ug/Kg		8/25/2018 03:29
3&4-Methylphenol	< 34200	ug/Kg		8/25/2018 03:29
3,3'-Dichlorobenzidine	< 34200	ug/Kg		8/25/2018 03:29
3-Nitroaniline	< 34200	ug/Kg		8/25/2018 03:29
4,6-Dinitro-2-methylphenol	< 45800	ug/Kg		8/25/2018 03:29
4-Bromophenyl phenyl ether	< 34200	ug/Kg		8/25/2018 03:29
4-Chloro-3-methylphenol	< 34200	ug/Kg		8/25/2018 03:29
4-Chloroaniline	< 34200	ug/Kg		8/25/2018 03:29
4-Chlorophenyl phenyl ether	< 34200	ug/Kg		8/25/2018 03:29

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 4-6

Lab Sample ID: 183805-13 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

4-Nitroaniline	< 34200	ug/Kg	8/25/2018	03:29
4-Nitrophenol	< 34200	ug/Kg	8/25/2018	03:29
Acenaphthene	< 34200	ug/Kg	8/25/2018	03:29
Acenaphthylene	**111000**	ug/Kg	8/25/2018	03:29
Acetophenone	< 34200	ug/Kg	8/25/2018	03:29
Anthracene	**168000**	ug/Kg	8/25/2018	03:29
Atrazine	< 34200	ug/Kg	8/25/2018	03:29
Benzaldehyde	< 34200	ug/Kg	8/25/2018	03:29
Benzo (a) anthracene	**236000**	ug/Kg	8/25/2018	03:29
Benzo (a) pyrene	**187000**	ug/Kg	8/25/2018	03:29
Benzo (b) fluoranthene	**148000**	ug/Kg	8/25/2018	03:29
Benzo (g,h,i) perylene	**112000**	ug/Kg	8/25/2018	03:29
Benzo (k) fluoranthene	**156000**	ug/Kg	8/25/2018	03:29
Bis (2-chloroethoxy) methane	< 34200	ug/Kg	8/25/2018	03:29
Bis (2-chloroethyl) ether	< 34200	ug/Kg	8/25/2018	03:29
Bis (2-ethylhexyl) phthalate	< 34200	ug/Kg	8/25/2018	03:29
Butylbenzylphthalate	< 34200	ug/Kg	8/25/2018	03:29
Caprolactam	< 34200	ug/Kg	8/25/2018	03:29
Carbazole	**55400**	ug/Kg	8/25/2018	03:29
Chrysene	**221000**	ug/Kg	8/25/2018	03:29
Dibenz (a,h) anthracene	< 34200	ug/Kg	8/25/2018	03:29
Dibenzofuran	**132000**	ug/Kg	8/25/2018	03:29
Diethyl phthalate	< 34200	ug/Kg	8/25/2018	03:29
Dimethyl phthalate	< 34200	ug/Kg	8/25/2018	03:29
Di-n-butyl phthalate	< 34200	ug/Kg	8/25/2018	03:29
Di-n-octylphthalate	< 34200	ug/Kg	8/25/2018	03:29
Fluoranthene	**744000**	ug/Kg	8/25/2018	03:29
Fluorene	**212000**	ug/Kg	8/25/2018	03:29
Hexachlorobenzene	< 34200	ug/Kg	8/25/2018	03:29
Hexachlorobutadiene	< 34200	ug/Kg	8/25/2018	03:29
Hexachlorocyclopentadiene	< 137000	ug/Kg	8/25/2018	03:29
Hexachloroethane	< 34200	ug/Kg	8/25/2018	03:29

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 4-6
Lab Sample ID: 183805-13 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Indeno (1,2,3-cd) pyrene	**103000**	ug/Kg	8/25/2018	03:29
Isophorone	< 34200	ug/Kg	8/25/2018	03:29
Naphthalene	**349000**	ug/Kg	8/25/2018	03:29
Nitrobenzene	< 34200	ug/Kg	8/25/2018	03:29
N-Nitroso-di-n-propylamine	< 34200	ug/Kg	8/25/2018	03:29
N-Nitrosodiphenylamine	< 34200	ug/Kg	8/25/2018	03:29
Pentachlorophenol	< 68400	ug/Kg	8/25/2018	03:29
Phenanthrene	**906000**	ug/Kg	8/25/2018	03:29
Phenol	< 34200	ug/Kg	8/25/2018	03:29
Pyrene	**555000**	ug/Kg	8/25/2018	03:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	35.7 - 94.4		8/25/2018	03:29
2-Fluorobiphenyl	NC	35.7 - 85.7		8/25/2018	03:29
2-Fluorophenol	NC	39.4 - 78.1		8/25/2018	03:29
Nitrobenzene-d5	NC	36.1 - 74.4		8/25/2018	03:29
Phenol-d5	NC	40.6 - 79.3		8/25/2018	03:29
Terphenyl-d14	NC	46.6 - 99.9		8/25/2018	03:29

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2018
Data File: B30776.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 7-9
Lab Sample ID: 183805-14 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 18600	ug/Kg		8/25/2018 03:59
1,2,4,5-Tetrachlorobenzene	< 18600	ug/Kg		8/25/2018 03:59
1,2,4-Trichlorobenzene	< 18600	ug/Kg		8/25/2018 03:59
1,2-Dichlorobenzene	< 18600	ug/Kg		8/25/2018 03:59
1,3-Dichlorobenzene	< 18600	ug/Kg		8/25/2018 03:59
1,4-Dichlorobenzene	< 18600	ug/Kg		8/25/2018 03:59
2,2-Oxybis (1-chloropropane)	< 18600	ug/Kg		8/25/2018 03:59
2,3,4,6-Tetrachlorophenol	< 18600	ug/Kg		8/25/2018 03:59
2,4,5-Trichlorophenol	< 18600	ug/Kg		8/25/2018 03:59
2,4,6-Trichlorophenol	< 18600	ug/Kg		8/25/2018 03:59
2,4-Dichlorophenol	< 18600	ug/Kg		8/25/2018 03:59
2,4-Dimethylphenol	< 18600	ug/Kg		8/25/2018 03:59
2,4-Dinitrophenol	< 74500	ug/Kg		8/25/2018 03:59
2,4-Dinitrotoluene	< 18600	ug/Kg		8/25/2018 03:59
2,6-Dinitrotoluene	< 18600	ug/Kg		8/25/2018 03:59
2-Chloronaphthalene	< 18600	ug/Kg		8/25/2018 03:59
2-Chlorophenol	< 18600	ug/Kg		8/25/2018 03:59
2-Methylnapthalene	**28200**	ug/Kg		8/25/2018 03:59
2-Methylphenol	< 18600	ug/Kg		8/25/2018 03:59
2-Nitroaniline	< 18600	ug/Kg		8/25/2018 03:59
2-Nitrophenol	< 18600	ug/Kg		8/25/2018 03:59
3&4-Methylphenol	< 18600	ug/Kg		8/25/2018 03:59
3,3'-Dichlorobenzidine	< 18600	ug/Kg		8/25/2018 03:59
3-Nitroaniline	< 18600	ug/Kg		8/25/2018 03:59
4,6-Dinitro-2-methylphenol	< 24900	ug/Kg		8/25/2018 03:59
4-Bromophenyl phenyl ether	< 18600	ug/Kg		8/25/2018 03:59
4-Chloro-3-methylphenol	< 18600	ug/Kg		8/25/2018 03:59
4-Chloroaniline	< 18600	ug/Kg		8/25/2018 03:59
4-Chlorophenyl phenyl ether	< 18600	ug/Kg		8/25/2018 03:59

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 7-9

Lab Sample ID: 183805-14 **Date Sampled:** 8/20/2018

Matrix: Soil **Date Received:** 8/21/2018

4-Nitroaniline	< 18600	ug/Kg	8/25/2018	03:59
4-Nitrophenol	< 18600	ug/Kg	8/25/2018	03:59
Acenaphthene	< 18600	ug/Kg	8/25/2018	03:59
Acenaphthylene	**83200**	ug/Kg	8/25/2018	03:59
Acetophenone	< 18600	ug/Kg	8/25/2018	03:59
Anthracene	**258000**	ug/Kg	8/25/2018	03:59
Atrazine	< 18600	ug/Kg	8/25/2018	03:59
Benzaldehyde	< 18600	ug/Kg	8/25/2018	03:59
Benzo (a) anthracene	**232000**	ug/Kg	8/25/2018	03:59
Benzo (a) pyrene	**165000**	ug/Kg	8/25/2018	03:59
Benzo (b) fluoranthene	**138000**	ug/Kg	8/25/2018	03:59
Benzo (g,h,i) perylene	**84200**	ug/Kg	8/25/2018	03:59
Benzo (k) fluoranthene	**130000**	ug/Kg	8/25/2018	03:59
Bis (2-chloroethoxy) methane	< 18600	ug/Kg	8/25/2018	03:59
Bis (2-chloroethyl) ether	< 18600	ug/Kg	8/25/2018	03:59
Bis (2-ethylhexyl) phthalate	< 18600	ug/Kg	8/25/2018	03:59
Butylbenzylphthalate	< 18600	ug/Kg	8/25/2018	03:59
Caprolactam	< 18600	ug/Kg	8/25/2018	03:59
Carbazole	**53400**	ug/Kg	8/25/2018	03:59
Chrysene	**208000**	ug/Kg	8/25/2018	03:59
Dibenz (a,h) anthracene	**24200**	ug/Kg	8/25/2018	03:59
Dibenzofuran	**79600**	ug/Kg	8/25/2018	03:59
Diethyl phthalate	< 18600	ug/Kg	8/25/2018	03:59
Dimethyl phthalate	< 18600	ug/Kg	8/25/2018	03:59
Di-n-butyl phthalate	< 18600	ug/Kg	8/25/2018	03:59
Di-n-octylphthalate	< 18600	ug/Kg	8/25/2018	03:59
Fluoranthene	**615000**	ug/Kg	8/25/2018	03:59
Fluorene	**152000**	ug/Kg	8/25/2018	03:59
Hexachlorobenzene	< 18600	ug/Kg	8/25/2018	03:59
Hexachlorobutadiene	< 18600	ug/Kg	8/25/2018	03:59
Hexachlorocyclopentadiene	< 74500	ug/Kg	8/25/2018	03:59
Hexachloroethane	< 18600	ug/Kg	8/25/2018	03:59

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 7-9
Lab Sample ID: 183805-14 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Indeno (1,2,3-cd) pyrene	**75900**	ug/Kg	8/25/2018	03:59
Isophorone	< 18600	ug/Kg	8/25/2018	03:59
Naphthalene	**89200**	ug/Kg	8/25/2018	03:59
Nitrobenzene	< 18600	ug/Kg	8/25/2018	03:59
N-Nitroso-di-n-propylamine	< 18600	ug/Kg	8/25/2018	03:59
N-Nitrosodiphenylamine	< 18600	ug/Kg	8/25/2018	03:59
Pentachlorophenol	< 37200	ug/Kg	8/25/2018	03:59
Phenanthrene	**646000**	ug/Kg	8/25/2018	03:59
Phenol	< 18600	ug/Kg	8/25/2018	03:59
Pyrene	**435000**	ug/Kg	8/25/2018	03:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	35.7 - 94.4		8/25/2018	03:59
2-Fluorobiphenyl	NC	35.7 - 85.7		8/25/2018	03:59
2-Fluorophenol	NC	39.4 - 78.1		8/25/2018	03:59
Nitrobenzene-d5	NC	36.1 - 74.4		8/25/2018	03:59
Phenol-d5	NC	40.6 - 79.3		8/25/2018	03:59
Terphenyl-d14	NC	46.6 - 99.9		8/25/2018	03:59

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2018
Data File: B30777.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 10-11
Lab Sample ID: 183805-15 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 8490	ug/Kg		8/25/2018 04:28
1,2,4,5-Tetrachlorobenzene	< 8490	ug/Kg		8/25/2018 04:28
1,2,4-Trichlorobenzene	< 8490	ug/Kg		8/25/2018 04:28
1,2-Dichlorobenzene	< 8490	ug/Kg		8/25/2018 04:28
1,3-Dichlorobenzene	< 8490	ug/Kg		8/25/2018 04:28
1,4-Dichlorobenzene	< 8490	ug/Kg		8/25/2018 04:28
2,2-Oxybis (1-chloropropane)	< 8490	ug/Kg		8/25/2018 04:28
2,3,4,6-Tetrachlorophenol	< 8490	ug/Kg		8/25/2018 04:28
2,4,5-Trichlorophenol	< 8490	ug/Kg		8/25/2018 04:28
2,4,6-Trichlorophenol	< 8490	ug/Kg		8/25/2018 04:28
2,4-Dichlorophenol	< 8490	ug/Kg		8/25/2018 04:28
2,4-Dimethylphenol	< 8490	ug/Kg		8/25/2018 04:28
2,4-Dinitrophenol	< 33900	ug/Kg		8/25/2018 04:28
2,4-Dinitrotoluene	< 8490	ug/Kg		8/25/2018 04:28
2,6-Dinitrotoluene	< 8490	ug/Kg		8/25/2018 04:28
2-Chloronaphthalene	< 8490	ug/Kg		8/25/2018 04:28
2-Chlorophenol	< 8490	ug/Kg		8/25/2018 04:28
2-Methylnapthalene	**8700**	ug/Kg		8/25/2018 04:28
2-Methylphenol	< 8490	ug/Kg		8/25/2018 04:28
2-Nitroaniline	< 8490	ug/Kg		8/25/2018 04:28
2-Nitrophenol	< 8490	ug/Kg		8/25/2018 04:28
3&4-Methylphenol	< 8490	ug/Kg		8/25/2018 04:28
3,3'-Dichlorobenzidine	< 8490	ug/Kg		8/25/2018 04:28
3-Nitroaniline	< 8490	ug/Kg		8/25/2018 04:28
4,6-Dinitro-2-methylphenol	< 11400	ug/Kg		8/25/2018 04:28
4-Bromophenyl phenyl ether	< 8490	ug/Kg		8/25/2018 04:28
4-Chloro-3-methylphenol	< 8490	ug/Kg		8/25/2018 04:28
4-Chloroaniline	< 8490	ug/Kg		8/25/2018 04:28
4-Chlorophenyl phenyl ether	< 8490	ug/Kg		8/25/2018 04:28

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 10-11
Lab Sample ID: 183805-15 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

4-Nitroaniline	< 8490	ug/Kg	8/25/2018	04:28
4-Nitrophenol	< 8490	ug/Kg	8/25/2018	04:28
Acenaphthene	**14700**	ug/Kg	8/25/2018	04:28
Acenaphthylene	**41800**	ug/Kg	8/25/2018	04:28
Acetophenone	< 8490	ug/Kg	8/25/2018	04:28
Anthracene	**40800**	ug/Kg	8/25/2018	04:28
Atrazine	< 8490	ug/Kg	8/25/2018	04:28
Benzaldehyde	< 8490	ug/Kg	8/25/2018	04:28
Benzo (a) anthracene	**86300**	ug/Kg	8/25/2018	04:28
Benzo (a) pyrene	**73900**	ug/Kg	8/25/2018	04:28
Benzo (b) fluoranthene	**63800**	ug/Kg	8/25/2018	04:28
Benzo (g,h,i) perylene	**45400**	ug/Kg	8/25/2018	04:28
Benzo (k) fluoranthene	**57700**	ug/Kg	8/25/2018	04:28
Bis (2-chloroethoxy) methane	< 8490	ug/Kg	8/25/2018	04:28
Bis (2-chloroethyl) ether	< 8490	ug/Kg	8/25/2018	04:28
Bis (2-ethylhexyl) phthalate	< 8490	ug/Kg	8/25/2018	04:28
Butylbenzylphthalate	< 8490	ug/Kg	8/25/2018	04:28
Caprolactam	< 8490	ug/Kg	8/25/2018	04:28
Carbazole	**8820**	ug/Kg	8/25/2018	04:28
Chrysene	**81500**	ug/Kg	8/25/2018	04:28
Dibenz (a,h) anthracene	**11600**	ug/Kg	8/25/2018	04:28
Dibenzofuran	**17400**	ug/Kg	8/25/2018	04:28
Diethyl phthalate	< 8490	ug/Kg	8/25/2018	04:28
Dimethyl phthalate	< 8490	ug/Kg	8/25/2018	04:28
Di-n-butyl phthalate	< 8490	ug/Kg	8/25/2018	04:28
Di-n-octylphthalate	< 8490	ug/Kg	8/25/2018	04:28
Fluoranthene	**229000**	ug/Kg	8/25/2018	04:28
Fluorene	**31300**	ug/Kg	8/25/2018	04:28
Hexachlorobenzene	< 8490	ug/Kg	8/25/2018	04:28
Hexachlorobutadiene	< 8490	ug/Kg	8/25/2018	04:28
Hexachlorocyclopentadiene	< 33900	ug/Kg	8/25/2018	04:28
Hexachloroethane	< 8490	ug/Kg	8/25/2018	04:28

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 183805

Client: **Neu-Velle**

Project Reference: Tonawanda Coke

Sample Identifier: 10-11
Lab Sample ID: 183805-15 **Date Sampled:** 8/20/2018
Matrix: Soil **Date Received:** 8/21/2018

Indeno (1,2,3-cd) pyrene	**40400**	ug/Kg	8/25/2018	04:28
Isophorone	< 8490	ug/Kg	8/25/2018	04:28
Naphthalene	**48900**	ug/Kg	8/25/2018	04:28
Nitrobenzene	< 8490	ug/Kg	8/25/2018	04:28
N-Nitroso-di-n-propylamine	< 8490	ug/Kg	8/25/2018	04:28
N-Nitrosodiphenylamine	< 8490	ug/Kg	8/25/2018	04:28
Pentachlorophenol	< 17000	ug/Kg	8/25/2018	04:28
Phenanthrene	**164000**	ug/Kg	8/25/2018	04:28
Phenol	< 8490	ug/Kg	8/25/2018	04:28
Pyrene	**178000**	ug/Kg	8/25/2018	04:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	35.7 - 94.4		8/25/2018	04:28
2-Fluorobiphenyl	NC	35.7 - 85.7		8/25/2018	04:28
2-Fluorophenol	NC	39.4 - 78.1		8/25/2018	04:28
Nitrobenzene-d5	NC	36.1 - 74.4		8/25/2018	04:28
Phenol-d5	NC	40.6 - 79.3		8/25/2018	04:28
Terphenyl-d14	NC	46.6 - 99.9		8/25/2018	04:28

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 8/22/2018
Data File: B30778.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

1 of 3

REPORT TO:	INVOICE TO:	
CLIENT: New-Velle	CLIENT:	LAB PROJECT ID: 183805
ADDRESS: 1167 LAKE AVE	ADDRESS:	
CITY: Rochester STATE: NY ZIP: 14615	CITY: STATE: ZIP:	Quotation #:
PHONE: 585-313-9683	PHONE:	Email: al@new-velle.com
ATTN: Al Lyons	ATTN:	

PROJECT REFERENCE: TONAWANDA COKE

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs										REMARKS	PARADIGM LAB SAMPLE NUMBER
8/20/18	1500		X	1	SO	1	X											01
			X	2		1	X											02
			X	3		1	X											03
			X	4		1	X											04
			X	5		1	X											05
			X	6		1	X											06
			X	7		1	X											07
			X	8		1	X											08
			X	9		1	X											09
			X	10		1	X											10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other (please indicate date needed: ____)	☐	Other (please indicate package needed: ____)	☐	Other EDD (please indicate EDD needed: ____)	☐

Sampled By: Al Lyons	Date/Time: 8/20/18 / 1500	Total Cost:
Relinquished By: Al Lyons	Date/Time: 8/21/18 / 0830	
Received By: [signature]	Date/Time: 8/21/18 0830	P.I.F.
Received @ Lab By: [signature]	Date/Time: 8/21/18 09:19	

10°C Tod 8/21/18 0844

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

ED_002831_00000154-00077

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM

CHAIN OF CUSTODY

2 of 3

REPORT TO:	INVOICE TO:	
CLIENT: New-Velle	CLIENT:	LAB PROJECT ID: 183805
ADDRESS: 1067 LAKE AVE	ADDRESS:	
CITY: Rochester STATE: NY ZIP: 14615	CITY: STATE: ZIP:	Quotation #:
PHONE: 585-313-9683	PHONE:	Email: al@new-velle.com
ATTN: Al Lyons	ATTN:	

PROJECT REFERENCE: TONAWANDA LAKE

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs	TCL SVOCs	TAL metals	PCB's	Pesticides						REMARKS	PARADIGM LAB SAMPLE NUMBER
8/21/18	1500		X	11	SO	1	X											11
		X		1-3		1		X										12
		X		4-6		1		X										13
		X		7-9		1		X										14
		X		10-11		1		X										15
		X		1-3 HOLD		1			X	X	X						HOLD	
		X		4-6 HOLD		1			X	X	X						HOLD	
		X		7-9 HOLD		1			X	X	X						HOLD	
		X		10-11 HOLD		1			X	X	X						HOLD	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other (please indicate date needed:)	☐	Other (please indicate package needed:)	☐	Other EDD (please indicate EDD needed:)	☐

Sampled By: Al Lyons Date/Time: 8/21/18 1500

Relinquished By: Al Lyons Date/Time: 8/21/18 0830

Received By: [signature] Date/Time: 8/21/18 0830

Received @ Lab By: [signature] Date/Time: 8/21/18 09:19

10°C iced 8/21/18 0844

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: Neu-Velle **Completed by:** Glenn Pezzulo

Lab Project ID: 183805 **Date:** 8/21/18

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

NELAC compliance with the sample condition requirements upon receipt

Condition	Yes	No	N/A
Container Type	X	X S035	
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	
Comments	16 °C iced		
Sufficient Sample Quantity	X		
Comments			