9. North Aud Block Environmental Review

a. Sienna - North Aud Block Environmental Review Addendum 7-29-20
b. Sienna - North Aud Block - Environmental Report - SJB - July-2020
c. Historic Aerial Photographs
d. Historic Topo Maps
e. Industrial Map and Canal Map
f. NYSDEC CP-51 Guidance Policy
g. NYSDEC Environmental Database Search
h. NYSDEC Part 360 Excerpts
i. NYSDEC Part 375 Excerpt

SIENNA
ENVIRONMENTAL TECHNOLOGIES
350 Elmwood Ave. • Buffalo, NY 14222
P 716.332.3134 F 716.332.3136

July 29, 2020

Herbert K. Guenther, AIA, NCARB, GGP
Architecture Group Leader
TY Lin International
77 Broadway Street, Suite 208
Buffalo, New York 14203

Re: Environmental Site Review Addendum
North Aud Block Project
Buffalo, New York
Sienna SET 3562

Dear Mr. Guenther:

Enclosed please find a final copy of our completed Environmental Site Review Addendum for the North Aud Block Project in Buffalo, New York. This addendum is to supplement the Environmental Site Review, dated February 17, 2020.

If after reviewing this report you have any questions, or if we can be of assistance in any other way, please do not hesitate to call. Thank you for the opportunity to be of service to TY Lin International (TY Lin) and Project Team

Sincerely,
Sienna Environmental Technologies LLC

S L Drozdowski

Steven Drozdowski
Retired P.E. (Civil/Environmental)
Sr. EH+S Consultant & Dept. Manager

Environmental Site Review Addendum

FOR THE:
North Aud Block Project
Buffalo, New York

PREPARED BY:

SIENNA
ENVIRONMENTAL TECHNOLOGIES
350 Elmwood Avenue Buffalo, New York 14222
ph: 716.332.3134 www.siennaet.com

(SIENNA PROJECT SET 3562)

PREPARED FOR:

TY Lin International
77 Broadway Street, Suite 208
Buffalo, New York 14203

ADDENDUM DATE:

July 29, 2020

Table of Contents

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1. Introduction

In 2019 Sienna Environmental Technologies, LLC (Sienna) was retained by TY Lin International (TY Lin) to conduct an Environmental Site Review for the North Aud Block Site as part of the Infrastructure Design Services for the redevelopment of the site. The purpose of the initial review was to supplement previous environmental reviews and/or investigations previously completed for the project site for previous site investigation and/or construction and/or demolition activities for identifying and determining potential environmental conditions of concern in the project area.

The initial review, Sienna Report dated February 17, 2020, concluded that previous investigations, and construction and/or demolition activities on-site were mostly completed prior to current New York State Department of Environmental Conservation (NYSDEC) regulations and/or guidelines, including DER-10 / Technical Guidance for Site Investigation and Remediation, Policy CP-51 / Soil Clean-up Guidance, and 6 NYCRR Part 360 Solid Waste Management. As such the initial review concluded this may have resulted in soil remaining on-site above current clean-up levels and/or that required off-site disposal, and/or soil fill material remaining on-site that required special on-site handling with respect to groundwater levels, cover depth, etc. and not receiving such handling.

The initial review concluded that "Further subsurface investigations and soil sampling and analysis could be completed prior to actual site excavation for a determination of potential soil contamination and a determination of the extent of the environmental concern, as well as potential associated handling and disposal cost." A subsurface investigation and soil sampling and analysis, as well as, a review of data obtained from such investigation, sampling and analysis was authorized as part of the Infrastructure Design Services to determine the extent of the environmental concerns.

The environmental concerns, if any, could then be further evaluated and/or considered during the infrastructure design work and/or be noted for the construction phase(s) of forthcoming project (s).

In accordance with Sienna's Task 3 Scope and Budget proposal to TY Lin, dated April 17, 2020, and SLB Services, Inc. (SJB) Environmental Subsurface Investigation proposal to Sienna, same date, a subsurface investigation with soil sampling and analysis was completed in June 2020 with this Addendum presenting the findings, conclusions and recommendations.

SJB provided an environmental subsurface investigation report presenting information on the encountered subsurface conditions, environmental screening of the recovered soil samples, laboratory results, and discussion of the results versus regulatory requirements for use, reuse and/or disposal of soil and/or fill material. SJB's report is attached to this Addendum as Appendix 1.

2. Background and Site Description

The North Aud Block is the remaining northern section of the previous Buffalo Memorial Auditorium demolished in the 2000s to allow for future re-development of the site. The area is bounded by Main Street on the east, Lower Terrace Street on the north, Pearl Street on the west, and Canalside (the former Erie Canal) on the south. As part of the demolition and the preparation of the site for future re-development of the site it has been excavated below grade, below the levels of the adjacent streets.

In consultation with Ty Lin and based upon the current design planning for a proposed underground parking garage and the anticipated required excavation for the construction of the garage five locations were selected for soil borings and sampling as shown on the figure in SJB's report.

The boring locations were in the anticipated four corners and the center of the proposed parking garage, and were bored to a depth of 36 feet below existing grade. The area is currently a level lawn area, with some standing water.

The Aud was constructed on the North and South Aud Blocks in the late 1930s which included a section of the filled-in Erie Canal and adjoining slips. The existing buildings in the area, were reportedly in a dilapidated state and were demolished for the construction of the Aud. Most demolition material would most likely have been disposed of off-site, however some materials and/or residual contamination may have been left or remained onsite as not likely an environmental concern at that time.

The demolition of the Aud about ten years ago would have included consideration for environmental regulations and guidelines in place at that time as described in Sienna's Environmental Site Review Report, however that may have resulted in fill material and/or contaminated soil being left in place, from either the pre-1930 demolition or the Aud demolition. During the Aud demolition soil encountered exceeding cleanup levels and requirements would have apparently been remediated, however for contamination and fill materials not exceeding cleanup levels and requirements would have remained in place, or utilized onsite as needed in accordance with the regulations at that time.

As described above, in Sienna's Report, and in SJB's Report the NYSDEC DER-10 / Technical Guidance for Site Investigation and Remediation, Policy CP-51 / Soil Clean-up Guidance, 6 NYCRR Part 360 Solid Waste Management, and 6 NYCRR Part 375 Environmental Remediation Programs provide the framework for soil cleanup, on-site and off-site use (re-use) of fill material and waste characterization and disposal.

The recently revised 6 NYCRR Part 360 Solid Waste Management, effective November 4, 2017, generally applies to off-site and on-site management of fill soil materials, generally utilizing the soil cleanup objectives of the 6 NYCRR Part 375 regulations. The Part 360 regulations address the acceptable physical criteria and concentration (contamination) level for fill material use and reuse on-site and/or for disposal. In general, only soil, sand, gravel or rock, with no non-soil constituents and specified maximum concentration levels can be used as general fill. Other fill material types/uses (restricted, limited) have specific end use, physical criteria, placement and cover, and maximum concentration level requirements. Most, if not all, of the demolition and previous cleanup on-site was performed prior to the issuance and enforcement of this updated fill soil materials regulations and guidelines.

3. Discussion

The initial review concluded that further subsurface investigations and soil sampling and analysis may or may not be conclusive as to contamination and/or extent, and that based upon the requirements for use and reuse of soil fill material, it is more likely that soil encountered at the site will be considered fill material and require onsite evaluation as it is excavated. Soil fill material could remain and/or be reused onsite if meeting specific requirements, but based upon the planned underground parking garage onsite space for soil/fill placement meeting the reuse requirements may not be available.

In addition, the initial review stated that during construction excavation activities it would be recommended to visually and olfactory monitor excavated soil / fill material for evidence of soil contamination and/or fill types/uses for an initial determination of sampling and analysis requirements, and ultimately disposal.

Based upon this subsurface investigation and sampling and analysis these initial review comments still hold, however the new sampling analytical results with a comparison to the aforementioned environmental regulations and guidelines does provide some clarity as to the potential use, reuse, and disposal of soil and fill material currently at the location of the planned underground parking garage.

In general, and as noted on SJB's boring logs attached to their report, the area of the planned garage is underlain by four (4) to seven (7) feet of soil/fill material over native soil. The soil/fill material was variable and consisted of silty sand, sandy silt, silty clay, and gravel, with crushed stone, cobble, brick, cinders, concrete, coal, organics, and possible fly ash. The native soil mainly consisted of silty sand with varying amounts of gravel, and occasional silty clay, clayey silt, or sandy gravel layers.

Free standing water was encountered at completion of each of the five borings at depths of 4.5 to 10.9 feet below the existing ground surface, in the fill and into the native soil.

Sampling and analysis of the soil/fill material revealed the presence of some soil/fill material contamination with respect to current NYSDEC regulations, as further described in SJB's Report. With the exception of mercury all detected concentrations of semi-volatile organic compounds (SVOCs) and metals were well below the 6 NYCCR Part 375 Soil Clean-up Objectives (SCOs) for Unrestricted Site Use. The mercury concentrations were well below the Part 375 SCOs for Commercial Site Use, meaning that, if the encountered excavated soil/fill material and underlying native soil produce similar sampling results (when sampled during actual excavation), there would be no requirement for site soil clean-up and/or remediation for commercial use of the site. However, for use and/or re-use, and/or disposal of the soil/fill material and/or native soil either additional sampling and analysis is required at the time of excavation and/or specific site requirements need to be met, as described below.

Subject to field screening and possibly laboratory analysis at the time of excavation the existing soil/fill material may be reused on site subject to being placed above the seasonal high-water table and with at least one foot of clean soil cover. The existing native soil could also be reused on site, subject to on site screening and possibly laboratory analysis to confirm its acceptability for use as fill material.

With regards to offsite reuse of the soil/fill material and/or native soil the Part 360 regulations require sampling and analytical testing based upon quantity to confirm acceptability as well as qualifying fill material into three beneficial use categories; general fill, restricted-use fill and limited-use fill. This qualifying is based upon fill material end use, physical criteria and maximum concentration levels. The native soil, subject to sampling and analytical results, may qualify for use offsite as general fill, whereas the soil/fill material would most likely only qualify for limited-use fill, such as under foundations and pavement, and placement above the seasonal high-water table.

With regards to disposal of any excavated soil/fill material and/or native soil the limited sampling and analysis indicated that the soil/fill material would appear to qualify for disposal as non-hazardous waste at an approved New York state Part 360 solid waste facility as per the Part 360 regulations. Additional sampling and analysis would need to be completed based upon the quantity and the facility requirements upon excavation of the material. The native soil, if not utilized as on or off-site fill as noted above, would also appear to qualify for disposal as non-hazardous waste, subject to the sampling and analysis noted for the soil/fill material.

4. Summary and Recommendations

In summary the soil/fill material and native soil can remain and/or be reused onsite if needed for site fill if meeting specific placement requirements.

Based upon the limited sampling and analysis conducted for this subsurface investigation if desiring to use the soil/fill material and/or the native soil as fill at off-site locations additional sampling and analysis would be required but the soil/fill material appears to qualify as limited-use fill with the native soil appearing to qualify as general fill.

Based upon the limited sampling and analysis conducted for this subsurface investigation if excavated soil/fill material and/or native material can not be reused onsite and doesn't have an offsite location for use then the material appears to qualify disposal as non-hazardous waste, subject to the additional sampling and analysis requirements.

Therefore, during design it would be recommended to determine site fill/grade needs, as well as, quantity of anticipated excavated soil/fill material and native soil so as to determine potential/anticipated uses, reuses and/or disposal requirements. Then, during construction excavation activities it would be recommended to visually and olfactory monitor excavated soil/fill material and native soil for environmental compliance with the appropriate above cited regulatory requirements for sampling and analysis and for use, reuse and/or disposal.

Contract Drilling and Testing

BUFFALO OFFICE
CORPORATE OFFICE
5167 South Park Avenue
Hamburg, NY 14075
p: 716.649.8110
f: 716.649.8051

ROCHESTER OFFICE
535 Summit Point Drive
Henrietta, NY 14667
p: 585.359.2730
f: 585.359.9668

ALBANY OFFICE
P.O. Box 2199
Ballston Spa, NY 12020

5 Knabner Road
Mechanicville, NY 12118
p: 518.899.7491
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CORTLAND OFFICE
60 Miller Street
Cortland, NY 13045
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July 24, 2020

Sienna Environmental Technologies
350 Elmwood Avenue
Buffalo, New York 14222

Attention: Steven L. Drozdowski, P.E.

Reference: ***Environmental Subsurface Investigation***
Proposed Development – North Aud Block Site
Buffalo, New York

Dear Steve,

Pursuant to your request and authorization, SJB Services, Inc. (SJB) recently completed an environmental subsurface investigation to support the proposed development at the North Aud Block site in Buffalo, New York.

Background

We understand the proposed development includes one or two levels of underground parking and that excavated materials will not be used onsite. The presence of "urban fill" in the subsurface is well-known in this area. Therefore the purposes of this environmental subsurface investigation were:

- Characterize subsurface conditions with regard to types and concentrations of contaminants, with attention to concentrations that exceed regulatory cleanup objectives, if any;
- Evaluate subsurface materials for potential use as fill at offsite locations per 6 NYCRR Part 360.13; and
- Obtain an indication if subsurface materials are suitable for disposal at a nonhazardous waste landfill, if this becomes necessary.

Constructing two underground parking levels will require excavation to a depth of approximately 35 feet (El. 595 – El. 560). Laboratory analysis of soil samples is required to qualify this material for potential use as offsite fill per 6 NYCRR Part 360.13 and to assess current conditions with regard to potential environmental contamination. (6 NYCRR Part 360.13 is attached.)

Subsurface Investigation

The environmental subsurface investigation was completed during June 1-4, 2020 and included the advancement of five soil borings designated B-1 through B-5. The locations of the borings are illustrated on the attached figure, and were located within the footprint of the proposed underground parking structure.

An ATV mounted CME-550X auger rig was used to advance the soil borings in general accordance with ASTM Standard D1586, using hollow stem augers with continuous split-spoon sampling. The split-spoon sampler was decontaminated between sampling intervals to minimize the potential for cross contamination. The borings were completed under the direction of an SJB environmental geologist.

Subsurface Conditions

The borings were advanced to depths of 36 feet below the existing ground surface. The subsurface boring logs are attached.

The recovered soils were visually classified by an SJB environmental geologist who prepared subsurface logs for each location. Subsurface conditions encountered at the boring locations generally consisted of approximately four to seven feet of fill materials overlying native soils. The fill content was variable and consisted of silty sand, sandy silt, silty clay, gravel, or crushed stone, with varying amounts of brick and traces of cinders, coal, and concrete. Beneath the fill, native soils mainly consisted of silty sand with varying amounts of gravel, and occasional silty clay, clayey silt, or sandy gravel layers.

Free standing water was encountered at completion in each of the five test borings at depths of 4.5 – 10.9 feet below ground surface. Note that boring B-2 was completed during June 1-2, 2020, with free standing water measured at 4.2 feet below ground surface on the morning of June 2, after drilling and sampling to a depth of 14 feet on June 1.

Environmental Screening

The SJB geologist screened the recovered soils with a MiniRAE Lite photoionization detector (PID). The PID is capable of detecting volatile organic vapor concentrations at a practical threshold of 1.0 part per million (ppm). The geologist also inspected the soils for evidence of environmental degradation (i.e. discoloration, staining, odors, etc.). PID measurements and soil observations are recorded on the attached subsurface logs. PID readings were at background levels on all soil samples recovered from the five borings.

Laboratory Analysis of Soil Samples for Environmental Characterization

Laboratory testing included volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); metals, including cyanide and hexavalent chromium; polychlorinated biphenyls (PCBs); and pesticides for compounds specified in 6 NYCRR Part 375 Table 375-6.8(a & b). This analytical testing is required to evaluate and characterize subsurface materials with regard to environmental compliance per NYSDEC DER-10, and also to evaluate these materials for potential use as fill at offsite locations per 6 NYCRR Part 360.13.

SJB collected samples for laboratory analysis from the depth interval containing fill materials in borings B-1, B-2, B-3, and B-4, since contaminant concentrations, if present, would be expected to be greater there than in the underlying native soils.

The soil samples for laboratory analysis were placed into pre-cleaned laboratory glassware containers, labeled with the date, time, location of project, and placed in an iced cooler at approximately 4 degrees Celsius for transport to Paradigm Environmental Services, Inc. (Paradigm) located in Rochester, New York. Paradigm is a New York State Department of Health (NYSDOH) certified laboratory. Chain-of-custody documentation accompanied the samples.

Laboratory Results – Environmental Characterization Samples

The analytical results for the soil samples collected from borings B-1, B-2, B-3, and B-4 were compared to the Soil Cleanup Objectives (SCOs) presented in 6 NYCRR Part 375, Table 375-6.8(a): Unrestricted Use Soil Cleanup Objectives, and in Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, dated December 14, 2006, as prescribed in NYSDEC Program Policy DER-10 - Technical Guidance for Site Investigation and Remediation. Paradigm's analytical reports are attached and the laboratory results are summarized below.

<u>Sample from Boring B-1; Depth = 0.5 – 6.5 feet</u>

- No VOCs were detected at concentrations exceeding the laboratory Practical Quantitation Limits (PQLs).
- Six SVOCs were detected at concentrations exceeding the respective PQL, but each detected concentration was well below the Part 375 SCO for Unrestricted site use.
- Nine metals, not including mercury, were detected at concentrations exceeding the respective PQL, but each detected concentration was well-below the Part 375 SCO for Unrestricted site use.
- Mercury was detected at a concentration of 0.205 mg/Kg (or parts per million (ppm)), exceeding the Part 375 SCO of 0.18 ppm for Unrestricted site use, but well below the SCO of 0.81 ppm for Residential and Restricted Residential sites uses, and well below the SCO of 2.8 ppm for Commercial site use.
- No PCBs were detected at concentrations exceeding the laboratory PQLs.
- No pesticides were detected at concentrations exceeding the laboratory PQLs.

<u>Sample from Boring B-2; Depth = 0.5 – 6.5 feet</u>

- No VOCs were detected at concentrations exceeding the laboratory PQLs.
- No SVOCs were detected at concentrations exceeding the laboratory PQLs.
- Nine metals, including mercury, were detected at concentrations exceeding the respective PQL, but each detected concentration was well-below the Part 375 SCO for Unrestricted site use.
- No PCBs were detected at concentrations exceeding the laboratory PQLs.
- No pesticides were detected at concentrations exceeding the laboratory PQLs.

<u>Sample from Boring B-3; Depth = 0.5 – 6.0 feet</u>

- No VOCs were detected at concentrations exceeding the laboratory PQLs.
- No SVOCs were detected at concentrations exceeding the laboratory PQLs.
- Nine metals, including mercury, were detected at concentrations exceeding the respective PQL, but each detected concentration was well-below the Part 375 SCO for Unrestricted site use.
- No PCBs were detected at concentrations exceeding the laboratory PQLs.
- No pesticides were detected at concentrations exceeding the laboratory PQLs

Sample from Boring B-4; Depth = 0.5 – 6.5 feet

- No VOCs were detected at concentrations exceeding the laboratory Practical Quantitation Limits (PQLs).
- Three SVOCs were detected at concentrations exceeding the respective PQL, but each detected concentration was well below the Part 375 SCO for Unrestricted site use.
- Nine metals, not including mercury, were detected at concentrations exceeding the respective PQL, but each detected concentration was well-below the Part 375 SCO for Unrestricted site use.
- Mercury was detected at a concentration of 1.62 ppm, exceeding the Part 375 SCO of 0.18 ppm for Unrestricted site use and the SCO of 0.81 ppm for Residential and Restricted Residential site uses, but well below the SCO of 2.8 ppm for Commercial site use.
- No PCBs were detected at concentrations exceeding the laboratory PQLs.
- No pesticides were detected at concentrations exceeding the laboratory PQLs.

Laboratory Analysis of Soil Samples for Waste Characterization

Laboratory testing for waste characterization purposes included:

- Toxicity Characteristic Leaching Procedure (TCLP) VOCs;
- TCLP SVOCs;
- TCLP Metals;
- TCLP Herbicides;
- TCLP Pesticides;
- PCBs;
- Ignitability; and
- pH.

This list of waste characterization analyses is necessary to qualify materials for disposal at a NYSDEC-permitted disposal facility (i.e., landfill), if disposal is necessary.

SJB collected composite samples for waste characterization analysis from the depth interval containing fill materials in borings B-1 and B-5, since contaminant concentrations, if present, would be expected to be greater there than in the underlying native soils. The waste characterization soil samples for laboratory analysis were collected and shipped to Paradigm, as described above.

Laboratory Results – Environmental Characterization Samples

The analytical results for each of the two waste characterization soil samples did not indicate hazardous concentrations of leachable compounds or hazardous characteristics. Therefore the subsurface materials at the project site are suitable for disposal as non-hazardous waste, should disposal become necessary.

Discussion: Environmental Compliance

No concentrations of VOCs, PCBs, or pesticides were detected in any of the four foil samples at concentrations exceeding the laboratory PQLs. With the exception of mercury, all detected concentrations of SVOCs and metals were well below the 6 NYCRR Part 375 SCOs for Unrestricted site use. The detected mercury concentrations were 0.205 ppm and 1.62 ppm in fill materials from borings B-1 and B-4, respectively. The project site was previously used for commercial purposes and is planned for commercial use in the future. Since both detected mercury concentrations were well below the Part 375 SCO of 2.8 ppm for Commercial site use, there is no environmental compliance issue regarding the mercury detections. SJB expects that laboratory analysis of the underlying native soils would produce similar or lower results.

Discussion: Use as Fill at Offsite Locations

Mercury was detected in fill material from boring B-1 at a concentration of 0.205 ppm, exceeding the Part 375 SCO of 0.18 ppm for Unrestricted site use, but well below the SCO of 0.81 ppm for Residential and Restricted Residential sites uses, well below the SCO of 2.8 ppm for Commercial site use, and well below the SCO for Protection of Groundwater of 0.73 ppm.

Mercury was detected at a concentration of 1.62 ppm, exceeding the Part 375 SCO of 0.18 ppm for Unrestricted site use, the SCO of 0.81 ppm for Residential and Restricted Residential site uses, and the SCO for Protection of Groundwater of 0.73 ppm. The detected concentration was well below the SCO of 2.8 ppm for Commercial site use.

Based on these detected mercury concentrations, it appears the onsite subsurface fill materials will qualify as Limited-Use Fill per 6 NYCRR Part 360.13, Table 2. Additional samples will need to be collected and analyzed, at the frequency specified in Part 360.13, to fully qualify onsite material for use at offsite locations. Analytical results for additional samples may alter the actual offsite fill category at the time of excavation / removal from the project site.

Regardless of the analytical results discussed above, the manmade components (brick, cinders, concrete, etc.) seen in samples of the fill materials recovered from the five test borings would prohibit its use as General Fill, per Part 360.13. We note that the underlying native soils may qualify for offsite use as General Fill, assuming analytical results meet the specified criteria.

Discussion: Waste Characterization

The analytical results for the two waste characterization samples indicate the subsurface fill materials will qualify for disposal as non-hazardous waste, should disposal become necessary. Additional samples will need to be collected and analyzed at the frequency required by the selected disposal facility's operating permit with NYSDEC. SJB expects the underlying native soils would also qualify for disposal as non-hazardous waste.

Closing

This project and report have been completed for Sienna Environmental Technologies and their client in accordance with generally accepted environmental practices. SJB appreciates the opportunity to provide these services. If you have any questions or we can provide further assistance, please contact our office at 716-649-8110.

Respectfully submitted,
SJB SERVICES, INC.

David R. Steiner, P.G.
Senior Engineering/Environmental Geologist
Environmental Services Manager

Attachments: Test Boring Location Figure

Subsurface Logs

6 NYCRR Part 360.13

Paradigm's Analytical Reports


Untitled Map
Write a description for your map.
Legend
Upper Terrace
Main St
Pearl St
Washington St
B-1
B-2
B-3
B-4
B-5
300 ft
N
Google Earth

DATE:
START 6/1/2020
FINISH 6/1/2020
SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

HOLE NO. B-1
SURF. ELEV
G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL INVESTIGATION
PROJ. NO.: BD-20-040
LOCATION: NORTH AUD BLOCK SITE
BUFFALO, NY

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
	1	6	6				Brown f-c SAND, some Silt, tr.gravel, tr.brick, contains	Photoionization Detector
		9	7		15	BKG	occasional f-c Brick fragment seams (moist, FILL)	(PID) measurements in
	2	5	5				Contains Concrete, tr.cinders	parts per million (PPM)
		6	7		11	BKG		BKG = Background PID
5	3	8	7				Brown to Gray f-m SAND, little Silt, tr.gravel, tr.organics,	
		6	6		13	BKG	tr.brick (wet, FILL)	
	4	4	3				Gray f-m SAND, little Silt (moist-wet, loose, SP-SM)	WOH = Weight of
		2	1		5	BKG		Hammer and Rods
	5	1	1				Contains f-c SAND, little Silt, tr.gravel (wet, v.loose)	
10		1	1		2	BKG		
	6	1	1				Brown Gray f-c GRAVEL, little f-c Sand, tr.silt	Sample 6: Poor Recovery
		4	4		5	BKG	(wet, loose, GW)	
	7	12	7				Brown to Gray f-c SAND and f-c Gravel, tr.silt	
		4	4		11	BKG	(wet, firm, SW)	
15	8	5	7				Contains little Silt, tr.gravel (wet, SW-SM)	Sample 8: Poor Recovery
		8	11		15	BKG		
	9	11	7				Brown Silty CLAY, little fine Sand (moist-wet, v.stiff, CL)	Sample 9: Poor Recovery
		9	13		16	BKG		
	10	WOH	WOH				Brown f-c SAND, little Silt (wet, v.loose, SP-SM)	
20		1	2		1	BKG		
	11	5	7				Contains f-m SAND, tr.silt (firm, SP)	Driller noted running
		10	12		17	BKG		sands from 15.0' - 36.0'
	12	1	3				Contains fine SAND (loose)	
		4	4		7	BKG		
25	13	6	4					
		6	7		10	BKG		
	14	7	5					
		5	8		10	BKG		
	15	4	4				Contains f-m SAND, little Silt (firm, SP-SM)	
30		7	8		11	BKG		
	16	7	9				Contains tr.silt (SP)	
		16	17		25	BKG		
	17	6	9				Contains f-c Sand	
		13	24		22	BKG		
35	18	7	9					
		11	19		20	BKG	Contains fine SAND, little Silt (SP-SM)	Free Standing Water
							Boring Complete at 36.0' below ground surface	measured at 4.5' at boring completion. Collect soil from 0.5-6.5' for analytical testing
40								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFIED BY: Geologist

DRILLER: S. WOLKIEWICZ, JR.

DRILL RIG TYPE : CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE:
START 6/1/2020
FINISH 6/2/2020

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

HOLE NO. B-2
SURF. ELEV
G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL INVESTIGATION
PROJ. NO.: BD-20-040
LOCATION: NORTH AUD BLOCK SITE
BUFFALO, NY

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
	1	2	12				Dark Brown SILT, little f-c Sand, tr.gravel (moist, FILL)	Photoionization Detector
		13	14		25	BKG	Brown f-c SAND, tr.gravel, tr.silt (moist, FILL)	(PID) measurements in
	2	15	50/0.4		REF		Gray Cobble Fragments (moist, FILL)	parts per million (PPM)
								BKG = Background
5	3	3	1				Gray f-m SAND, tr.silt, tr.organics (wet, FILL)	
		1	1		2	BKG		Driller noted auger refusal
	4	1	1				Light Brown f-c SAND, little Silt (wet, v.loose, SP-SM)	at 3.0 ft, off set boring 6'
		1	1		2	BKG		west, auger to 4', auger
	5	3	3				Becomes Brown, contains tr.gravel (loose)	cuttings, black clayey silt,
10		4	4		7	BKG		little fine Sand, tr.cinders
	6	7	12				Contains tr.silt (firm, SP)	(moist, FILL)
		15	10		27	BKG		End of 6/1/20, Free
	7	3	5				Contains little f-c Gravel (SW)	Standing Water at 3.9'.
		6	6		11	BKG		
15	8	7	10				Contains fine SAND, little Silt, tr. gravel (SP-SM)	Start of 6/2/20, Free
		10	13		20	BKG		Standing Water at 4.2'
	9	7	4				(loose)	
		4	6		8	BKG		Sample #9: Poor Recovery
	10	3	5				(firm)	
20		6	8		11	BKG		
	11	2	2				(loose)	
		5	8		7	BKG		
	12	5	7				(firm)	
		7	0		14	BKG		
25	13	3	6					
		8	10		14	BKG		
	14	7	7					
		9	11		16	BKG		
	15	4	2				(loose)	
30		2	2		4	BKG		WOH = Weight of
	16	WOH	WOH				Contains f-c SAND, tr.silt (v. loose, SP)	Hammer and Rods
		1	7		1	BKG		
	17	6	9					Sample #18: Possible
		9	11		18	BKG	(firm)	Cobble fragments
35	18	11	25				Brown f-c GRAVEL, little f-c Sand, little Silt	
		24	50/0.4		REF	BKG	(wet, v.compact, GW-GM)	Free Standing Water
							Boring Complete at 35.9' below ground surface	measured at 10.5' at boring
								completion. Collect soil
								from 0.5-6.5' for analytical
40								testing

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFIED BY: Geologist

DRILLER: S. WOLKIEWICZ, JR.

DRILL RIG TYPE : CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE:
START 6/2/2020
FINISH 6/2/2020

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

HOLE NO. B-3
SURF. ELEV
G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL INVESTIGATION
PROJ. NO.: BD-20-040
LOCATION: NORTH AUD BLOCK SITE
BUFFALO, NY

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
	1	1	4				Dark Brown Clayey SILT, some f-c Gravel (moist, FILL)	Photoionization Detector
		6	8		10	BKG	Brown f-c GRAVEL/CRUSHED STONE, some f-c Sand,	(PID) measurements in
	2	12	6				little Silt, tr.brick (moist, FILL)	parts per million (PPM)
		5	4		11	BKG	Black Clayey SILT, some f-c Sand, tr.cinders	BKG = Background PID
5	3	3	2				(moist, FILL) (Possible Fly Ash)	
		2	3		4	BKG	Gray f-c SAND, little f-c Gravel, little Silt, tr.brick (moist, FILL)	
	4	3	4					Sample #4: No Recovery
		5	7		9	BKG		
	5	5	5				Brown f-c SAND and f-c Gravel, tr.silt (wet, loose,SW)	
10		4	5		9	BKG		
	6	5	4				Contains tr.gravel (SP)	
		3	3		7	BKG		
	7	5	5					
		4	4		9	BKG		
15	8	4	6				Brown f-m SAND, tr.silt (wet, firm, SP)	
		6	3		12	BKG		
	9	6	7					
		11	13		18	BKG		
	10	2	1					Sample #10: Poor Recovery
20		1	1		2	BKG		
	11	1	1				Contains tr.gravel	
		1	1		2	BKG		
	12	3	7				Contains fine SAND, little Silt (SP-SM)	
		10	12		17	BKG		
25	13	WOH	1				Brown Clayey SILT, some fine Sand (wet, soft, ML-CL)	WOH = Weight of
		2	11		3	BKG		Hammer and Rods
	14	7	6				Brown fine SAND, little Silt (wet, firm, SP-SM)	
		6	5		12	BKG		
	15	3	4					
30		5	4		9	BKG	(loose)	Collect Soil from 0.5 - 6.0'
	16	6	7				Contains tr.silt (firm, SP)	for analytical testing
		17	34		24	BKG		
	17	8	11					
		11	12		22	BKG		
35	18	1	1					
		3	4		4	BKG	(loose)	Free Standing Water
							Boring Complete at 36.0' below ground surface	measured at 10.9' at boring completion. Free Water measured at 3.0' on 6/3/20
40								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFIED BY: Geologist

DRILLER: S. WOLKIEWICZ, JR.

DRILL RIG TYPE : CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE:
START 6/3/2020
FINISH 6/4/2020

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

HOLE NO. B-4
SURF. ELEV
G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL INVESTIGATION
PROJ. NO.: BD-20-040
LOCATION: NORTH AUD BLOCK SITE
BUFFALO, NY

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
	1	6	9				Gray f-c GRAVEL/Crushed Stone, little f-c Sand, tr.silt	Photoionization Detector
		13	11		22	BKG	(moist, FILL)	(PID) measurements in
	2	7	5				Black to Brown f-c SAND, some f-c Gravel, little Clayey	parts per million (PPM)
		4	4		9	BKG	Silt, tr.brick, tr.cinders, tr.coal (moist, FILL)	BKG = Background PID
5	3	1	3				Dark Gray fine SAND and Silt, tr.gravel, tr.brick	
		1	1		4	BKG	(moist, FILL)	
	4	1	3				Gray to Brown f-c SAND, tr.silt (wet, loose, SP)	
		3	2		6	BKG		
	5	2	3				Becomes Brown	
10		3	4		6	BKG		
	6	2	3					
		2	4		5	BKG		
	7	3	4					
		4	7		8	BKG		
15	8	3	3				Contains tr.gravel	
		4	6		7	BKG		
	9	4	5				Contains f-m SAND (firm)	
		9	11		14	BKG		
	10	2	5				Contains little Silt (SP-SM)	End of 6/3/20
20		12	17		17	BKG		Start of 6/4/20
	11	6	7					
		6	13		13	BKG		
	12	6	7				Contains tr.silt (SP)	
		11	13		18	BKG		
25	13	2	5				Contains fine SAND, little Silt (SP-SM)	
		7	7		12	BKG		
	14	1	4				(loose)	
		5	4		9	BKG		
	15	6	4				Contains tr.gravel	
30		4	9		8	BKG		
	16	1	2				Contains f-m SAND, tr.silt (v. loose, SP)	
		1	2		3	BKG		
	17	4	7				Contains fine SAND, little Silt (firm, SP-SM)	
		12	9		19	BKG		
35	18	5	10					
		16	16		26	BKG		Free Standing Water
							Boring Complete at 36.0' below ground surface	measured at 10.2' at boring completion. Collect soil from 0.5' to 6.5' for analytical testing
40								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFIED BY: Geologist

DRILLER: S. WOLKIEWICZ, JR.

DRILL RIG TYPE : CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE:
START 6/3/2020
FINISH 6/3/2020

SHEET 1 OF 1

SJB SERVICES, INC.
SUBSURFACE LOG

HOLE NO. B-5
SURF. ELEV
G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL INVESTIGATION
PROJ. NO.: BD-20-040
LOCATION: NORTH AUD BLOCK SITE
BUFFALO, NY

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
	1	1	2				Brown Silty CLAY, some f-c Gravel/Crushed Stone, little	Photoionization Detector
		3	5		5	BKG	f-c Sand, tr.brick (moist, FILL)	(PID) measurements in
	2	3	7				Gray to Brown f-c SAND, some f-c Gravel, little Brick, tr.silt	parts per million (PPM)
		5	4		12	BKG	(moist, FILL)	BKG = Background PID
5	3	4	3				Brown f-m SAND, tr.gravel, tr.silt (moist, loose, SP)	
		2	6		5	BKG		Driller noted difficult
	4	5	7				(firm)	conditions from 0-4ft.
		4	4		11	BKG		
	5	1	2				(loose)	
10		4	4		6	BKG		
	6	6	5				Contains occasional Silt laminations	
		4	4		9	BKG		
	7	7	9				(firm)	
		8	10		17	BKG		
15	8	3	4				(loose)	
		5	6		9	BKG		
	9	13	18					
		24	20		42	BKG	Becomes light Brown, contains fine SAND, (wet, compact)	
	10	2	6				Contains little Silt (firm, SP-SM)	Sample #10: Poor Recovery
20		13	16		19	BKG		
	11	1	1				(v.loose)	
		1	3		2	BKG		
	12	5	6				(firm)	Sample # 12: Poor Recovery
		6	7		12	BKG		
25	13	7	8				Contains f-m SAND, tr.silt (SP)	
		5	5		13	BKG		
	14	6	7				Contains Brown fine SAND, little Silt (SP-SM)	Sample # 14: Poor Recovery
		8	13		15	BKG		
	15	6	6					
30		9	13		15	BKG		
	16	3	3				(loose)	
		6	8		9	BKG		
	17	4	3					
		4	4		7	BKG		
35	18	4	5				(firm)	
		6	6		11	BKG		Free Standing Water
							Boring Complete at 36.0' below ground surface	measured at 7.3' at boring completion. Collect soils from 0.5' to 5.0' for analytical testing
40								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW

CLASSIFIED BY: Geologist

DRILLER: S. WOLKIEWICZ, JR.

DRILL RIG TYPE : CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

6 CRR-NY 360.13
NY-CRR

OFFICIAL COMPILATION OF CODES, RULES AND REGULATIONS OF THE STATE OF NEW YORK
TITLE 6. DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAPTER IV. QUALITY SERVICES
SUBCHAPTER B. SOLID WASTES
PART 360. SOLID WASTE MANAGEMENT FACILITIES GENERAL REQUIREMENTS

6 CRR-NY 360.13
6 CRR-NY 360.13

360.13 Special requirements for pre-determined beneficial use of fill material.

(a) Applicability.

This section applies to the direct use of fill material under a pre-determined beneficial use. This section does not apply to:

(1) fill material sent to facilities subject to regulation under Subpart 361-5 of this Title; and

(2) fill material generated outside of New York City with no evidence of historical impacts such as reported spill events, or visual or other indication (odors, etc.) of chemical or physical contamination as identified in section 360.12(c)(1)(ii) of this Part.

(b) Waste cessation.

Fill material ceases to be solid waste in accordance with the following:

(1) restricted-use fill and limited-use fill - once delivered to the site of reuse;

(2) general fill generated outside of the City of New York – once a determination that it is general fill has been made;

(3) general fill generated within the City of New York - once delivered to the site of reuse.

(c) Exemption for on-site reuse of fill material.

Fill material used as backfill for the excavation from which the fill material was taken, or as fill in areas of similar physical characteristics on the project property is exempt from regulation under this Part. If fill material exhibits historical or visual evidence of contamination (including odors), and will be used in an area with public access, the relocated fill material must be covered with a minimum of 12 inches of soil or fill material that meets the criteria for general fill, as defined in this Part. This provision does not apply to sites which are subject to a department-approved or undertaken program pursuant to Part 375 of this Title.

(d) Testing requirements for fill material.

Fill material that is not otherwise excluded or exempt from regulation under this section must sampled and analyzed pursuant to subdivision (e) of this section if:

(1) the fill material originates from a location within the City of New York unless the quantity of fill material does not exceed 10 cubic yards from one site and the 10 cubic yards or less of material does not contain historical evidence of impacts such as reported spill events, or visual or other indication (odors, etc.) of chemical or physical contamination;

(2) the fill material originates from a location outside the City of New York if:

(i) there is historical evidence of impacts such as reported spill events, or visual or other indication (odors, etc.) of chemical or physical contamination;

(ii) the fill material originates from a site with industrial land use as defined in section 375-1.8(g)(2)(iv) of this Title; or

(iii) if, during excavation, visual indication of chemical or physical contamination is discovered.

(e) Sampling and analysis requirements for fill material.

(1) Sample method and frequency. Samples must be representative of the fill material. The sampling program must be designed and implemented by or under the direction of a qualified environmental professional (QEP), using the table below as a minimum sampling frequency. Written documentation of the sampling program with certification from the QEP that samples were representative of the fill material must be retained for three years after the sampling occurs and must be provided to the department upon request.
TABLE 1: Minimum Analysis Frequency for Fill Material

Fill Material Quantity (cubic yards)	Minimum Number of Analyses for Volatile Organic Compounds, if Required	Minimum Number of Analyses for all other parameters
0-300	2	1
301-1000	4	2
1001-10,000	6	3
10,001+	Two for every additional 10,000 cubic yards or fraction thereof	One per every additional 10,000 cubic yards or fraction thereof

(2) Analytical parameters. Fill material samples must be analyzed for:

(i) the Metals, PCBs/Pesticides, and Semivolatile organic compounds listed in section 375-6.8(b) of this Title;

(ii) asbestos if demolition of structures has occurred on the site;

(iii) volume of physical contaminants, if present, based on visual observation; and

(iv) volatile organic compounds listed in section 375-6.8(b) of this Title, if their presence is possible based on site events such as an historic petroleum spill, odors, photoionization detector meter or other field instrument readings.

(3) Laboratory and analytical requirements. Laboratory analyses must be performed by a laboratory currently certified by the New York State Department of Health's Environmental Laboratory Approval Program (ELAP).

(f) Acceptable fill material uses.

Fill material can be beneficially used in accordance with table 2 below.

TABLE 2: Fill Material Beneficial Use

Fill Material Type	Fill Material End Use	Physical Criteria	Maximum Concentration Levels
General Fill	Any setting where the fill material meets the engineering criteria, for use, except: 1. Undeveloped land; and 2. Agricultural crop land. General Fill may also be used in the same manner as Restricted-Use Fill and Limited-Use Fill.	Only soil, sand, gravel or rock; no non-soil constituents.	Lower of Protection of Public Health-Residential Land Use and Protection of Groundwater in section 375-6.8(b) of this Title.
Restricted-Use Fill [1]	Engineered use for embankments or subgrade in transportation corridors, or on sites where in-situ materials exceed Restricted-Use Fill or Limited-Use Fill criteria. Must be placed above the seasonal high water table. May also be used in the same	Up to 40 percent by volume inert, non-putrescible non-soil constituents. [2]	General Fill criteria except that up to 3 mg/kg (dry weight) total benzo(a)pyrene (BAP) equivalent. [3] No detectable asbestos. In Nassau or Suffolk County – BAP equivalent does not apply. Polycyclic

	manner as Limited-Use Fill.		aromatic hydrocarbons must not exceed Protection of Groundwater Soil Cleanup Objectives in section 375-6.8(b) of this Title.
Limited-Use Fill [1]	Engineered use under foundations and pavements above the seasonal high water table. [4] Placement in Nassau and Suffolk Counties is prohibited.	No volume limit for inert, non-putrescible non-soil constituents. [2]	General Fill criteria, except up to Protection of Public Health-Commercial SCOs for metals; up to 3 mg/kg (dry weight) benzo(a)pyrene equivalent is allowed. [3] No detectable asbestos.

(g) Other fill material use criteria.

(1) Payment. A person must not receive payment or other form of consideration for allowing beneficial use of restricted-use fill or limited-use fill material on land under that person's control.

(2) Notification in the City of New York. The department must be notified at least five days in advance of transfers of general fill, restricted-use fill and limited-use fill material generated in, imported to, or relocated within the City of New York in amounts greater than 10 cubic yards. Notifications must be made on forms or in a manner acceptable to the department and must include any analytical data required by this section. The department reserves the right to inspect any site of generation or placement of fill material.

(3) Notification of fill material placement. For restricted-use fill and limited-use fill material, the department must be notified at least 5 days before delivery of greater than 10 cubic yards of fill material. Notification must be made on forms or in a manner acceptable to the department and must include any analytical

data required by this section. The department reserves the right to inspect any site receiving fill material.

(4) Recordkeeping. The generator, processor, and receiver of fill material subject to sampling under this section must retain records of fill material quantities, with analytical data, for a minimum of three years after the fill material is removed or received, as applicable. These records must be made available to the department upon request.

(5) Transport.

(i) Transport of fill material that originates in the City of New York is subject to the requirements of Part 364 of this Title.

(ii) Transport of limited-use fill and restricted-use fill generated outside of New York City, is subject to the requirements of Part 364 of this Title.

(iii) Limited-use fill and restricted-use fill generated outside of Nassau and Suffolk counties is prohibited from being transported to any destination within Nassau or Suffolk County.

(6) Fill material not used in accordance with this section is a solid waste and must be managed at a facility authorized to receive it, or used pursuant to a case-specific beneficial use determination in accordance with section 360.12(d) of this Part.

Footnotes

1 Use of restricted or limited use fill material can only occur at a project in accordance with an approved local building permit or other municipal authorization that includes the need for the fill material. Fill material must be used within 30 days of arriving at the project site.

2 Inert, non-putrescible materials excludes plastic, gypsum wallboard, wood, paper, or other material that may readily degrade or produce odors.

3 Benzo(a)pyrene (BAP) equivalent is calculated using the following formula: BAPE= 1 x conc. Benzo(a)pyrene + 0.1 x [conc.

Benz(a)anthracene + conc. Benzo(b)fluoranthene + conc. Benzo(k)fluoranthene + conc. Dibenz(a,h)anthracene + conc. Indeno(1,2,3-c,d)pyrene] + 0.01 x conc. Chrysene (All concentrations in mg/kg or ppm, dry weight.)

4 If foundation or pavement is not installed within 365 days of fill material placement, it placement will constitute prohibited disposal.

6 CRR-NY 360.13
Current through November 30, 2019

END OF DOCUMENT

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

SJB Services, Inc.

For Lab Project ID

202371

Referencing

North Aud Block, Buffalo New York

Prepared

Tuesday, June 16, 2020

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: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202371-01	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

Hexavalent Chromium

Analyte	Result	Units	Qualifier	Date Analyzed
Chrome, Hexavalent	< 0.958	mg/Kg		6/05/2020

Method Reference(s): EPA 7196A
Subcontractor ELAP ID: 11148

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.64**	mg/Kg		6/5/2020 14:38
Barium	**66.2**	mg/Kg		6/4/2020 16:20
Beryllium	< 0.263	mg/Kg		6/4/2020 16:20
Cadmium	**0.317**	mg/Kg		6/4/2020 16:20
Chromium	**10.2**	mg/Kg		6/4/2020 16:20
Copper	**11.9**	mg/Kg		6/4/2020 16:20
Lead	**33.9**	mg/Kg		6/4/2020 16:20
Manganese	**114**	mg/Kg		6/4/2020 16:20
Nickel	**9.25**	mg/Kg		6/4/2020 16:20
Selenium	< 1.05	mg/Kg		6/4/2020 16:20
Silver	< 0.525	mg/Kg		6/4/2020 16:20
Zinc	**64.8**	mg/Kg		6/4/2020 16:20

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/3/2020
Data File: 200605C

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.205**	mg/Kg		6/4/2020 08:50

Method Reference(s): EPA 7471B
Preparation Date: 6/3/2020
Data File: Hg200604A

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202371-01	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1221	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1232	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1242	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1248	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1254	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1260	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1262	< 0.0311	mg/Kg		6/4/2020 12:24
PCB-1268	< 0.0311	mg/Kg		6/4/2020 12:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**77.8**	18.2 - 85.6		6/4/2020 12:24

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 6/3/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.11	ug/Kg		6/10/2020 00:32
4,4-DDE	< 3.11	ug/Kg		6/10/2020 00:32
4,4-DDT	< 3.11	ug/Kg		6/10/2020 00:32
Aldrin	< 3.11	ug/Kg		6/10/2020 00:32
alpha-BHC	< 3.11	ug/Kg		6/10/2020 00:32
beta-BHC	< 3.11	ug/Kg		6/10/2020 00:32
cis-Chlordane	< 3.11	ug/Kg		6/10/2020 00:32
delta-BHC	< 3.11	ug/Kg		6/10/2020 00:32
Dieldrin	< 3.11	ug/Kg		6/10/2020 00:32
Endosulfan I	< 3.11	ug/Kg		6/10/2020 00:32
Endosulfan II	< 3.11	ug/Kg		6/10/2020 00:32
Endosulfan Sulfate	< 3.11	ug/Kg		6/10/2020 00:32

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-1
Lab Sample ID: 202371-01 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Endrin	< 3.11	ug/Kg		6/10/2020 00:32
Endrin Aldehyde	< 3.11	ug/Kg		6/10/2020 00:32
Endrin Ketone	< 3.11	ug/Kg		6/10/2020 00:32
gamma-BHC (Lindane)	< 3.11	ug/Kg		6/10/2020 00:32
Heptachlor	< 3.11	ug/Kg		6/10/2020 00:32
Heptachlor Epoxide	< 3.11	ug/Kg		6/10/2020 00:32
Methoxychlor	< 3.11	ug/Kg		6/10/2020 00:32
Toxaphene	< 31.1	ug/Kg		6/10/2020 00:32
trans-Chlordane	< 3.11	ug/Kg		6/10/2020 00:32

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**88.8**	33.3 - 107		6/10/2020 00:32
Tetrachloro-m-xylene (1)	**63.8**	28.5 - 99.8		6/10/2020 00:32

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 6/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 292	ug/Kg		6/3/2020 18:44
1,2,4,5-Tetrachlorobenzene	< 292	ug/Kg		6/3/2020 18:44
1,2,4-Trichlorobenzene	< 292	ug/Kg		6/3/2020 18:44
1,2-Dichlorobenzene	< 292	ug/Kg		6/3/2020 18:44
1,3-Dichlorobenzene	< 292	ug/Kg		6/3/2020 18:44
1,4-Dichlorobenzene	< 292	ug/Kg		6/3/2020 18:44
2,2-Oxybis (1-chloropropane)	< 292	ug/Kg		6/3/2020 18:44
2,3,4,6-Tetrachlorophenol	< 292	ug/Kg		6/3/2020 18:44
2,4,5-Trichlorophenol	< 292	ug/Kg		6/3/2020 18:44
2,4,6-Trichlorophenol	< 292	ug/Kg		6/3/2020 18:44
2,4-Dichlorophenol	< 292	ug/Kg		6/3/2020 18:44
2,4-Dimethylphenol	< 292	ug/Kg		6/3/2020 18:44
2,4-Dinitrophenol	< 1170	ug/Kg		6/3/2020 18:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-1
Lab Sample ID: 202371-01 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

2,4-Dinitrotoluene	< 292	ug/Kg	6/3/2020	18:44
2,6-Dinitrotoluene	< 292	ug/Kg	6/3/2020	18:44
2-Chloronaphthalene	< 292	ug/Kg	6/3/2020	18:44
2-Chlorophenol	< 292	ug/Kg	6/3/2020	18:44
2-Methylnapthalene	< 292	ug/Kg	6/3/2020	18:44
2-Methylphenol	< 292	ug/Kg	6/3/2020	18:44
2-Nitroaniline	< 292	ug/Kg	6/3/2020	18:44
2-Nitrophenol	< 292	ug/Kg	6/3/2020	18:44
3&4-Methylphenol	< 292	ug/Kg	6/3/2020	18:44
3,3'-Dichlorobenzidine	< 292	ug/Kg	6/3/2020	18:44
3-Nitroaniline	< 292	ug/Kg	6/3/2020	18:44
4,6-Dinitro-2-methylphenol	< 391	ug/Kg	6/3/2020	18:44
4-Bromophenyl phenyl ether	< 292	ug/Kg	6/3/2020	18:44
4-Chloro-3-methylphenol	< 292	ug/Kg	6/3/2020	18:44
4-Chloroaniline	< 292	ug/Kg	6/3/2020	18:44
4-Chlorophenyl phenyl ether	< 292	ug/Kg	6/3/2020	18:44
4-Nitroaniline	< 292	ug/Kg	6/3/2020	18:44
4-Nitrophenol	< 292	ug/Kg	6/3/2020	18:44
Acenaphthene	< 292	ug/Kg	6/3/2020	18:44
Acenaphthylene	< 292	ug/Kg	6/3/2020	18:44
Acetophenone	< 292	ug/Kg	6/3/2020	18:44
Anthracene	< 292	ug/Kg	6/3/2020	18:44
Atrazine	< 292	ug/Kg	6/3/2020	18:44
Benzaldehyde	< 292	ug/Kg	6/3/2020	18:44
Benzo (a) anthracene	**344**	ug/Kg	6/3/2020	18:44
Benzo (a) pyrene	**306**	ug/Kg	6/3/2020	18:44
Benzo (b) fluoranthene	< 292	ug/Kg	6/3/2020	18:44
Benzo (g,h,i) perylene	< 292	ug/Kg	6/3/2020	18:44
Benzo (k) fluoranthene	< 292	ug/Kg	6/3/2020	18:44
Bis (2-chloroethoxy) methane	< 292	ug/Kg	6/3/2020	18:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-1
Lab Sample ID: 202371-01 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Bis (2-chloroethyl) ether	< 292	ug/Kg	6/3/2020	18:44
Bis (2-ethylhexyl) phthalate	< 292	ug/Kg	6/3/2020	18:44
Butylbenzylphthalate	< 292	ug/Kg	6/3/2020	18:44
Caprolactam	< 292	ug/Kg	6/3/2020	18:44
Carbazole	< 292	ug/Kg	6/3/2020	18:44
Chrysene	**334**	ug/Kg	6/3/2020	18:44
Dibenz (a,h) anthracene	< 292	ug/Kg	6/3/2020	18:44
Dibenzofuran	< 292	ug/Kg	6/3/2020	18:44
Diethyl phthalate	< 292	ug/Kg	6/3/2020	18:44
Dimethyl phthalate	< 292	ug/Kg	6/3/2020	18:44
Di-n-butyl phthalate	< 292	ug/Kg	6/3/2020	18:44
Di-n-octylphthalate	< 292	ug/Kg	6/3/2020	18:44
Fluoranthene	**644**	ug/Kg	6/3/2020	18:44
Fluorene	< 292	ug/Kg	6/3/2020	18:44
Hexachlorobenzene	< 292	ug/Kg	6/3/2020	18:44
Hexachlorobutadiene	< 292	ug/Kg	6/3/2020	18:44
Hexachlorocyclopentadiene	< 1170	ug/Kg	6/3/2020	18:44
Hexachloroethane	< 292	ug/Kg	6/3/2020	18:44
Indeno (1,2,3-cd) pyrene	< 292	ug/Kg	6/3/2020	18:44
Isophorone	< 292	ug/Kg	6/3/2020	18:44
Naphthalene	< 292	ug/Kg	6/3/2020	18:44
Nitrobenzene	< 292	ug/Kg	6/3/2020	18:44
N-Nitroso-di-n-propylamine	< 292	ug/Kg	6/3/2020	18:44
N-Nitrosodiphenylamine	< 292	ug/Kg	6/3/2020	18:44
Pentachlorophenol	< 584	ug/Kg	6/3/2020	18:44
Phenanthrene	**353**	ug/Kg	6/3/2020	18:44
Phenol	< 292	ug/Kg	6/3/2020	18:44
Pyrene	**565**	ug/Kg	6/3/2020	18:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-1
Lab Sample ID: 202371-01 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**64.0**	39 - 88.1		6/3/2020 18:44
2-Fluorobiphenyl	**63.6**	42.5 - 81.1		6/3/2020 18:44
2-Fluorophenol	**65.5**	39.8 - 77.3		6/3/2020 18:44
Nitrobenzene-d5	**60.9**	40.1 - 77.1		6/3/2020 18:44
Phenol-d5	**65.5**	41.7 - 76.6		6/3/2020 18:44
Terphenyl-d14	**65.4**	41.6 - 96.8		6/3/2020 18:44

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/3/2020
Data File: B46777.D

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<195	ug/Kg		6/5/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.14	ug/Kg		6/10/2020 19:16
1,1,2,2-Tetrachloroethane	< 8.14	ug/Kg		6/10/2020 19:16
1,1,2-Trichloroethane	< 8.14	ug/Kg		6/10/2020 19:16
1,1-Dichloroethane	< 8.14	ug/Kg		6/10/2020 19:16
1,1-Dichloroethene	< 8.14	ug/Kg		6/10/2020 19:16
1,2,3-Trichlorobenzene	< 20.4	ug/Kg		6/10/2020 19:16
1,2,4-Trichlorobenzene	< 20.4	ug/Kg		6/10/2020 19:16
1,2,4-Trimethylbenzene	< 8.14	ug/Kg		6/10/2020 19:16
1,2-Dibromo-3-Chloropropane	< 40.7	ug/Kg		6/10/2020 19:16
1,2-Dibromoethane	< 8.14	ug/Kg		6/10/2020 19:16
1,2-Dichlorobenzene	< 8.14	ug/Kg		6/10/2020 19:16
1,2-Dichloroethane	< 8.14	ug/Kg		6/10/2020 19:16

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202371-01	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

1,2-Dichloropropane	< 8.14	ug/Kg	6/10/2020	19:16
1,3,5-Trimethylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
1,3-Dichlorobenzene	< 8.14	ug/Kg	6/10/2020	19:16
1,4-Dichlorobenzene	< 8.14	ug/Kg	6/10/2020	19:16
1,4-Dioxane	< 81.4	ug/Kg	6/10/2020	19:16
2-Butanone	< 40.7	ug/Kg	6/10/2020	19:16
2-Hexanone	< 20.4	ug/Kg	6/10/2020	19:16
4-Methyl-2-pentanone	< 20.4	ug/Kg	6/10/2020	19:16
Acetone	< 40.7	ug/Kg	6/10/2020	19:16
Benzene	< 8.14	ug/Kg	6/10/2020	19:16
Bromochloromethane	< 20.4	ug/Kg	6/10/2020	19:16
Bromodichloromethane	< 8.14	ug/Kg	6/10/2020	19:16
Bromoform	< 20.4	ug/Kg	6/10/2020	19:16
Bromomethane	< 8.14	ug/Kg	6/10/2020	19:16
Carbon disulfide	< 8.14	ug/Kg	6/10/2020	19:16
Carbon Tetrachloride	< 8.14	ug/Kg	6/10/2020	19:16
Chlorobenzene	< 8.14	ug/Kg	6/10/2020	19:16
Chloroethane	< 8.14	ug/Kg	6/10/2020	19:16
Chloroform	< 8.14	ug/Kg	6/10/2020	19:16
Chloromethane	< 8.14	ug/Kg	6/10/2020	19:16
cis-1,2-Dichloroethene	< 8.14	ug/Kg	6/10/2020	19:16
cis-1,3-Dichloropropene	< 8.14	ug/Kg	6/10/2020	19:16
Cyclohexane	< 40.7	ug/Kg	6/10/2020	19:16
Dibromochloromethane	< 8.14	ug/Kg	6/10/2020	19:16
Dichlorodifluoromethane	< 8.14	ug/Kg	6/10/2020	19:16
Ethylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
Freon 113	< 8.14	ug/Kg	6/10/2020	19:16
Isopropylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
m,p-Xylene	< 8.14	ug/Kg	6/10/2020	19:16
Methyl acetate	< 8.14	ug/Kg	6/10/2020	19:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202371-01	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

Methyl tert-butyl Ether	< 8.14	ug/Kg	6/10/2020	19:16
Methylcyclohexane	< 8.14	ug/Kg	6/10/2020	19:16
Methylene chloride	< 20.4	ug/Kg	6/10/2020	19:16
Naphthalene	< 20.4	ug/Kg	6/10/2020	19:16
n-Butylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
n-Propylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
o-Xylene	< 8.14	ug/Kg	6/10/2020	19:16
p-Isopropyltoluene	< 8.14	ug/Kg	6/10/2020	19:16
sec-Butylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
Styrene	< 20.4	ug/Kg	6/10/2020	19:16
tert-Butylbenzene	< 8.14	ug/Kg	6/10/2020	19:16
Tetrachloroethene	< 8.14	ug/Kg	6/10/2020	19:16
Toluene	< 8.14	ug/Kg	6/10/2020	19:16
trans-1,2-Dichloroethene	< 8.14	ug/Kg	6/10/2020	19:16
trans-1,3-Dichloropropene	< 8.14	ug/Kg	6/10/2020	19:16
Trichloroethene	< 8.14	ug/Kg	6/10/2020	19:16
Trichlorofluoromethane	< 8.14	ug/Kg	6/10/2020	19:16
Vinyl chloride	< 8.14	ug/Kg	6/10/2020	19:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**114**	80.8 - 134		6/10/2020	19:16
4-Bromofluorobenzene	**86.9**	54.9 - 132		6/10/2020	19:16
Pentafluorobenzene	**105**	85.8 - 114		6/10/2020	19:16
Toluene-D8	**97.8**	81 - 117		6/10/2020	19:16

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

Data File: x70868.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.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202371-01	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.572	mg/Kg		6/4/2020

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 6/3/2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-2		
Lab Sample ID:	202371-02	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

Hexavalent Chromium

Analyte	Result	Units	Qualifier	Date Analyzed
Chrome, Hexavalent	< 1.1	mg/Kg		6/5/2020

Method Reference(s): EPA 7196A
Subcontractor ELAP ID: 11148

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.41**	mg/Kg		6/5/2020 14:42
Barium	**47.9**	mg/Kg		6/4/2020 16:25
Beryllium	< 0.307	mg/Kg		6/4/2020 16:25
Cadmium	< 0.307	mg/Kg		6/4/2020 16:25
Chromium	**11.7**	mg/Kg		6/4/2020 16:25
Copper	**9.09**	mg/Kg		6/4/2020 16:25
Lead	**21.1**	mg/Kg		6/4/2020 16:25
Manganese	**145**	mg/Kg		6/4/2020 16:25
Nickel	**7.62**	mg/Kg		6/4/2020 16:25
Selenium	< 1.23	mg/Kg		6/4/2020 16:25
Silver	< 0.614	mg/Kg		6/4/2020 16:25
Zinc	**103**	mg/Kg		6/4/2020 16:25

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/3/2020
Data File: 200605C

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.143**	mg/Kg	M	6/4/2020 08:52

Method Reference(s): EPA 7471B
Preparation Date: 6/3/2020
Data File: Hg200604A

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-2		
Lab Sample ID:	202371-02	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1221	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1232	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1242	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1248	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1254	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1260	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1262	< 0.0334	mg/Kg		6/4/2020 12:48
PCB-1268	< 0.0334	mg/Kg		6/4/2020 12:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**50.6**	18.2 - 85.6		6/4/2020 12:48

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 6/3/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.34	ug/Kg		6/10/2020 00:51
4,4-DDE	< 3.34	ug/Kg		6/10/2020 00:51
4,4-DDT	< 3.34	ug/Kg		6/10/2020 00:51
Aldrin	< 3.34	ug/Kg		6/10/2020 00:51
alpha-BHC	< 3.34	ug/Kg		6/10/2020 00:51
beta-BHC	< 3.34	ug/Kg		6/10/2020 00:51
cis-Chlordane	< 3.34	ug/Kg		6/10/2020 00:51
delta-BHC	< 3.34	ug/Kg		6/10/2020 00:51
Dieldrin	< 3.34	ug/Kg		6/10/2020 00:51
Endosulfan I	< 3.34	ug/Kg		6/10/2020 00:51
Endosulfan II	< 3.34	ug/Kg		6/10/2020 00:51
Endosulfan Sulfate	< 3.34	ug/Kg		6/10/2020 00:51

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-2
Lab Sample ID: 202371-02 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Endrin	< 3.34	ug/Kg		6/10/2020 00:51
Endrin Aldehyde	< 3.34	ug/Kg		6/10/2020 00:51
Endrin Ketone	< 3.34	ug/Kg		6/10/2020 00:51
gamma-BHC (Lindane)	< 3.34	ug/Kg		6/10/2020 00:51
Heptachlor	< 3.34	ug/Kg		6/10/2020 00:51
Heptachlor Epoxide	< 3.34	ug/Kg		6/10/2020 00:51
Methoxychlor	< 3.34	ug/Kg		6/10/2020 00:51
Toxaphene	< 33.4	ug/Kg		6/10/2020 00:51
trans-Chlordane	< 3.34	ug/Kg		6/10/2020 00:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**92.9**	33.3 - 107		6/10/2020 00:51
Tetrachloro-m-xylene (1)	**66.9**	28.5 - 99.8		6/10/2020 00:51

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 6/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 355	ug/Kg		6/3/2020 19:13
1,2,4,5-Tetrachlorobenzene	< 355	ug/Kg		6/3/2020 19:13
1,2,4-Trichlorobenzene	< 355	ug/Kg		6/3/2020 19:13
1,2-Dichlorobenzene	< 355	ug/Kg		6/3/2020 19:13
1,3-Dichlorobenzene	< 355	ug/Kg		6/3/2020 19:13
1,4-Dichlorobenzene	< 355	ug/Kg		6/3/2020 19:13
2,2-Oxybis (1-chloropropane)	< 355	ug/Kg		6/3/2020 19:13
2,3,4,6-Tetrachlorophenol	< 355	ug/Kg		6/3/2020 19:13
2,4,5-Trichlorophenol	< 355	ug/Kg		6/3/2020 19:13
2,4,6-Trichlorophenol	< 355	ug/Kg		6/3/2020 19:13
2,4-Dichlorophenol	< 355	ug/Kg		6/3/2020 19:13
2,4-Dimethylphenol	< 355	ug/Kg		6/3/2020 19:13
2,4-Dinitrophenol	< 1420	ug/Kg		6/3/2020 19:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-2
Lab Sample ID: 202371-02 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

2,4-Dinitrotoluene	< 355	ug/Kg	6/3/2020	19:13
2,6-Dinitrotoluene	< 355	ug/Kg	6/3/2020	19:13
2-Chloronaphthalene	< 355	ug/Kg	6/3/2020	19:13
2-Chlorophenol	< 355	ug/Kg	6/3/2020	19:13
2-Methylnapthalene	< 355	ug/Kg	6/3/2020	19:13
2-Methylphenol	< 355	ug/Kg	6/3/2020	19:13
2-Nitroaniline	< 355	ug/Kg	6/3/2020	19:13
2-Nitrophenol	< 355	ug/Kg	6/3/2020	19:13
3&4-Methylphenol	< 355	ug/Kg	6/3/2020	19:13
3,3'-Dichlorobenzidine	< 355	ug/Kg	6/3/2020	19:13
3-Nitroaniline	< 355	ug/Kg	6/3/2020	19:13
4,6-Dinitro-2-methylphenol	< 475	ug/Kg	6/3/2020	19:13
4-Bromophenyl phenyl ether	< 355	ug/Kg	6/3/2020	19:13
4-Chloro-3-methylphenol	< 355	ug/Kg	6/3/2020	19:13
4-Chloroaniline	< 355	ug/Kg	6/3/2020	19:13
4-Chlorophenyl phenyl ether	< 355	ug/Kg	6/3/2020	19:13
4-Nitroaniline	< 355	ug/Kg	6/3/2020	19:13
4-Nitrophenol	< 355	ug/Kg	6/3/2020	19:13
Acenaphthene	< 355	ug/Kg	6/3/2020	19:13
Acenaphthylene	< 355	ug/Kg	6/3/2020	19:13
Acetophenone	< 355	ug/Kg	6/3/2020	19:13
Anthracene	< 355	ug/Kg	6/3/2020	19:13
Atrazine	< 355	ug/Kg	6/3/2020	19:13
Benzaldehyde	< 355	ug/Kg	6/3/2020	19:13
Benzo (a) anthracene	< 355	ug/Kg	6/3/2020	19:13
Benzo (a) pyrene	< 355	ug/Kg	6/3/2020	19:13
Benzo (b) fluoranthene	< 355	ug/Kg	6/3/2020	19:13
Benzo (g,h,i) perylene	< 355	ug/Kg	6/3/2020	19:13
Benzo (k) fluoranthene	< 355	ug/Kg	6/3/2020	19:13
Bis (2-chloroethoxy) methane	< 355	ug/Kg	6/3/2020	19:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-2
Lab Sample ID: 202371-02 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Bis (2-chloroethyl) ether	< 355	ug/Kg	6/3/2020	19:13
Bis (2-ethylhexyl) phthalate	< 355	ug/Kg	6/3/2020	19:13
Butylbenzylphthalate	< 355	ug/Kg	6/3/2020	19:13
Caprolactam	< 355	ug/Kg	6/3/2020	19:13
Carbazole	< 355	ug/Kg	6/3/2020	19:13
Chrysene	< 355	ug/Kg	6/3/2020	19:13
Dibenz (a,h) anthracene	< 355	ug/Kg	6/3/2020	19:13
Dibenzofuran	< 355	ug/Kg	6/3/2020	19:13
Diethyl phthalate	< 355	ug/Kg	6/3/2020	19:13
Dimethyl phthalate	< 355	ug/Kg	6/3/2020	19:13
Di-n-butyl phthalate	< 355	ug/Kg	6/3/2020	19:13
Di-n-octylphthalate	< 355	ug/Kg	6/3/2020	19:13
Fluoranthene	< 355	ug/Kg	6/3/2020	19:13
Fluorene	< 355	ug/Kg	6/3/2020	19:13
Hexachlorobenzene	< 355	ug/Kg	6/3/2020	19:13
Hexachlorobutadiene	< 355	ug/Kg	6/3/2020	19:13
Hexachlorocyclopentadiene	< 1420	ug/Kg	6/3/2020	19:13
Hexachloroethane	< 355	ug/Kg	6/3/2020	19:13
Indeno (1,2,3-cd) pyrene	< 355	ug/Kg	6/3/2020	19:13
Isophorone	< 355	ug/Kg	6/3/2020	19:13
Naphthalene	< 355	ug/Kg	6/3/2020	19:13
Nitrobenzene	< 355	ug/Kg	6/3/2020	19:13
N-Nitroso-di-n-propylamine	< 355	ug/Kg	6/3/2020	19:13
N-Nitrosodiphenylamine	< 355	ug/Kg	6/3/2020	19:13
Pentachlorophenol	< 710	ug/Kg	6/3/2020	19:13
Phenanthrene	< 355	ug/Kg	6/3/2020	19:13
Phenol	< 355	ug/Kg	6/3/2020	19:13
Pyrene	< 355	ug/Kg	6/3/2020	19:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-2
Lab Sample ID: 202371-02 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**64.7**	39 - 88.1		6/3/2020 19:13
2-Fluorobiphenyl	**62.9**	42.5 - 81.1		6/3/2020 19:13
2-Fluorophenol	**62.9**	39.8 - 77.3		6/3/2020 19:13
Nitrobenzene-d5	**59.2**	40.1 - 77.1		6/3/2020 19:13
Phenol-d5	**63.4**	41.7 - 76.6		6/3/2020 19:13
Terphenyl-d14	**64.2**	41.6 - 96.8		6/3/2020 19:13

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/3/2020
Data File: B46778.D

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<221	ug/Kg		6/5/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 8.29	ug/Kg		6/10/2020 19:39
1,1,2,2-Tetrachloroethane	< 8.29	ug/Kg		6/10/2020 19:39
1,1,2-Trichloroethane	< 8.29	ug/Kg		6/10/2020 19:39
1,1-Dichloroethane	< 8.29	ug/Kg		6/10/2020 19:39
1,1-Dichloroethene	< 8.29	ug/Kg		6/10/2020 19:39
1,2,3-Trichlorobenzene	< 20.7	ug/Kg		6/10/2020 19:39
1,2,4-Trichlorobenzene	< 20.7	ug/Kg		6/10/2020 19:39
1,2,4-Trimethylbenzene	< 8.29	ug/Kg		6/10/2020 19:39
1,2-Dibromo-3-Chloropropane	< 41.5	ug/Kg		6/10/2020 19:39
1,2-Dibromoethane	< 8.29	ug/Kg		6/10/2020 19:39
1,2-Dichlorobenzene	< 8.29	ug/Kg		6/10/2020 19:39
1,2-Dichloroethane	< 8.29	ug/Kg		6/10/2020 19:39

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-2		
Lab Sample ID:	202371-02	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

1,2-Dichloropropane	< 8.29	ug/Kg	6/10/2020	19:39
1,3,5-Trimethylbenzene	< 8.29	ug/Kg	6/10/2020	19:39
1,3-Dichlorobenzene	< 8.29	ug/Kg	6/10/2020	19:39
1,4-Dichlorobenzene	< 8.29	ug/Kg	6/10/2020	19:39
1,4-Dioxane	< 82.9	ug/Kg	6/10/2020	19:39
2-Butanone	< 41.5	ug/Kg	6/10/2020	19:39
2-Hexanone	< 20.7	ug/Kg	6/10/2020	19:39
4-Methyl-2-pentanone	< 20.7	ug/Kg	6/10/2020	19:39
Acetone	< 41.5	ug/Kg	6/10/2020	19:39
Benzene	< 8.29	ug/Kg	6/10/2020	19:39
Bromochloromethane	< 20.7	ug/Kg	6/10/2020	19:39
Bromodichloromethane	< 8.29	ug/Kg	6/10/2020	19:39
Bromoform	< 20.7	ug/Kg	6/10/2020	19:39
Bromomethane	< 8.29	ug/Kg	6/10/2020	19:39
Carbon disulfide	< 8.29	ug/Kg	6/10/2020	19:39
Carbon Tetrachloride	< 8.29	ug/Kg	6/10/2020	19:39
Chlorobenzene	< 8.29	ug/Kg	6/10/2020	19:39
Chloroethane	< 8.29	ug/Kg	6/10/2020	19:39
Chloroform	< 8.29	ug/Kg	6/10/2020	19:39
Chloromethane	< 8.29	ug/Kg	6/10/2020	19:39
cis-1,2-Dichloroethene	< 8.29	ug/Kg	6/10/2020	19:39
cis-1,3-Dichloropropene	< 8.29	ug/Kg	6/10/2020	19:39
Cyclohexane	< 41.5	ug/Kg	6/10/2020	19:39
Dibromochloromethane	< 8.29	ug/Kg	6/10/2020	19:39
Dichlorodifluoromethane	< 8.29	ug/Kg	6/10/2020	19:39
Ethylbenzene	< 8.29	ug/Kg	6/10/2020	19:39
Freon 113	< 8.29	ug/Kg	6/10/2020	19:39
Isopropylbenzene	< 8.29	ug/Kg	6/10/2020	19:39
m,p-Xylene	< 8.29	ug/Kg	6/10/2020	19:39
Methyl acetate	< 8.29	ug/Kg	6/10/2020	19:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-2
Lab Sample ID: 202371-02 **Date Sampled:** 6/1/2020
Matrix: Soil **Date Received:** 6/2/2020

Methyl tert-butyl Ether	< 8.29	ug/Kg		6/10/2020	19:39
Methylcyclohexane	< 8.29	ug/Kg		6/10/2020	19:39
Methylene chloride	< 20.7	ug/Kg		6/10/2020	19:39
Naphthalene	< 20.7	ug/Kg		6/10/2020	19:39
n-Butylbenzene	< 8.29	ug/Kg		6/10/2020	19:39
n-Propylbenzene	< 8.29	ug/Kg		6/10/2020	19:39
o-Xylene	< 8.29	ug/Kg		6/10/2020	19:39
p-Isopropyltoluene	< 8.29	ug/Kg		6/10/2020	19:39
sec-Butylbenzene	< 8.29	ug/Kg		6/10/2020	19:39
Styrene	< 20.7	ug/Kg		6/10/2020	19:39
tert-Butylbenzene	< 8.29	ug/Kg		6/10/2020	19:39
Tetrachloroethene	< 8.29	ug/Kg		6/10/2020	19:39
Toluene	< 8.29	ug/Kg		6/10/2020	19:39
trans-1,2-Dichloroethene	< 8.29	ug/Kg		6/10/2020	19:39
trans-1,3-Dichloropropene	< 8.29	ug/Kg		6/10/2020	19:39
Trichloroethene	< 8.29	ug/Kg		6/10/2020	19:39
Trichlorofluoromethane	< 8.29	ug/Kg		6/10/2020	19:39
Vinyl chloride	< 8.29	ug/Kg		6/10/2020	19:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**117**	80.8 - 134		6/10/2020	19:39
4-Bromofluorobenzene	**82.5**	54.9 - 132		6/10/2020	19:39
Pentafluorobenzene	**99.7**	85.8 - 114		6/10/2020	19:39
Toluene-D8	**95.3**	81 - 117		6/10/2020	19:39

Internal standard outliers indicate probable matrix interference

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

Data File: x70869.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.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202371

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-2		
Lab Sample ID:	202371-02	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.614	mg/Kg		6/4/2020

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 6/3/2020

Report Prepared Tuesday, June 16, 2020

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 ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	SJB Services	CLIENT:	Same	202371
ADDRESS:	5167 S. Park Avenue	ADDRESS:		Quotation #:
CITY:	Hamburg STATE: NY ZIP 14141	CITY:	STATE: ZIP:	Email: sbochenek@sjbempire.net
PHONE:	716-649-8110	PHONE:		dsteiner@sjbempire.net
ATTN:	Dave Steiner	ATTN:		

PROJECT REFERENCE

North Aud Block, Buffalo New York

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	Part 375 VOCs	Part 375 SVOCs	Part 375 Metals	Part 375 PCBs (Low Level)	Pesticides						REMARKS	PARADIGM LAB SAMPLE NUMBER
6-1-20	1130	X		B-1	SO	3	X	X	X	X	X						Metals to include:	01
6-1-20	1515	X		B-2	SO	3	X	X	X	X	X						Cyanide	02
																	Hexavalent Chrome	
																	Pesticide to include:	
																	Silvex	
																	~~Cyanide~~ Hex Chrome and Silvex Sent to Alpha	

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	None Required	☐	None Required ☐
10 day	X	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: Stephen Bochenek	Date/Time: 6-1-20	Total Cost:
Relinquished By: Brian Zerck	Date/Time: 6-2-20 11:30	
Received By: [signature]	Date/Time: 6/2/2020 15:41	P.I.F.
Received @ Lab By: 4°C iced 6/2/2020	Date/Time: 6/2/2020 15:09	

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: SJB Services **Completed by:** Glenn Pezzulo

Lab Project ID: 202371 **Date:** 6/2/2020

Sample Condition Requirements

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

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
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		X Metals
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments	Samples for Hex Cr, Silver sent directly to sub lab.		

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

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

CHAIN OF CUSTODY

L2022650

11148

REPORT TO:

COMPANY: Paradigm Environmental
ADDRESS: 179 Lake Avenue
CITY: Rochester STATE: NY ZIP: 14608
PHONE: FAX:
ATTN: Reporting
COMMENTS: Please email results to reporting@paradigmenv.com

INVOICE TO:

COMPANY: Same
ADDRESS:
CITY: STATE: ZIP:
PHONE: FAX:
ATTN: Accounts Payable

LAB PROJECT #:
CLIENT PROJECT #

TURNAROUND TIME: (WORKING DAYS)
STD: 1 2 3 5 OTHER: 10 Day
Date Due:

PROJECT NAME/SITE NAME: North Aud Block, Buffalo NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Hex Chrome	Silvex	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/1/20	11:30	X		B-1	SO	1	X	X		
6/1/20	15:15	X		B-2	SO	1	X	X		

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Preservation:	Y ☐	N ☐
Holding Time:	Y ☐	N ☐
Temperature: Temp 2.2°C	Y ☐	N ☐

Comments: SRC 6/16/2020

Client

Sampled By: Brian Bud — Date/Time: 6-2-20 1500
Relinquished By: [signature] VAR — Date/Time: 6/2/20 1500
Received By: [signature] VAR — Date/Time: 6/2/20 1520
~~Received By~~ Relinquished by: [signature] — Date/Time: 6/3/20 0530
Received @ Lab By: — Date/Time:

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

SJB Services, Inc.

For Lab Project ID

202413

Referencing

North Aud Block, Buffalo New York

Prepared

Tuesday, June 16, 2020

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: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-3		
Lab Sample ID:	202413-01	**Date Sampled:**	6/2/2020
Matrix:	Soil	**Date Received:**	6/3/2020

Hexavalent Chromium

Analyte	Result	Units	Qualifier	Date Analyzed
Chrome, Hexavalent	<0.942	mg/Kg		6/6/2020

Method Reference(s): EPA 7196A
Subcontractor ELAP ID: 11148

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**1.70**	mg/Kg		6/5/2020 16:42
Barium	**36.1**	mg/Kg		6/5/2020 16:42
Beryllium	< 0.285	mg/Kg		6/5/2020 16:42
Cadmium	< 0.285	mg/Kg		6/5/2020 16:42
Chromium	**8.45**	mg/Kg		6/5/2020 16:42
Copper	**6.47**	mg/Kg		6/5/2020 16:42
Lead	**9.17**	mg/Kg		6/5/2020 16:42
Manganese	**128**	mg/Kg		6/5/2020 16:42
Nickel	**7.12**	mg/Kg		6/5/2020 16:42
Selenium	< 1.14	mg/Kg		6/5/2020 16:42
Silver	< 0.569	mg/Kg		6/5/2020 16:42
Zinc	**52.2**	mg/Kg		6/5/2020 16:42

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/4/2020
Data File: 200605C

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.126**	mg/Kg		6/8/2020 09:34

Method Reference(s): EPA 7471B
Preparation Date: 6/5/2020
Data File: Hg200608A

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-3		
Lab Sample ID:	202413-01	**Date Sampled:**	6/2/2020
Matrix:	Soil	**Date Received:**	6/3/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1221	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1232	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1242	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1248	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1254	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1260	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1262	< 0.0324	mg/Kg		6/9/2020 02:19
PCB-1268	< 0.0324	mg/Kg		6/9/2020 02:19

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**76.6**	18.2 - 85.6		6/9/2020 02:19

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 6/8/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.24	ug/Kg		6/10/2020 03:21
4,4-DDE	< 3.24	ug/Kg		6/10/2020 03:21
4,4-DDT	< 3.24	ug/Kg		6/10/2020 03:21
Aldrin	< 3.24	ug/Kg		6/10/2020 03:21
alpha-BHC	< 3.24	ug/Kg		6/10/2020 03:21
beta-BHC	< 3.24	ug/Kg		6/10/2020 03:21
cis-Chlordane	< 3.24	ug/Kg		6/10/2020 03:21
delta-BHC	< 3.24	ug/Kg		6/10/2020 03:21
Dieldrin	< 3.24	ug/Kg		6/10/2020 03:21
Endosulfan I	< 3.24	ug/Kg		6/10/2020 03:21
Endosulfan II	< 3.24	ug/Kg		6/10/2020 03:21
Endosulfan Sulfate	< 3.24	ug/Kg		6/10/2020 03:21

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-3
Lab Sample ID: 202413-01 **Date Sampled:** 6/2/2020
Matrix: Soil **Date Received:** 6/3/2020

Endrin	< 3.24	ug/Kg		6/10/2020 03:21
Endrin Aldehyde	< 3.24	ug/Kg		6/10/2020 03:21
Endrin Ketone	< 3.24	ug/Kg		6/10/2020 03:21
gamma-BHC (Lindane)	< 3.24	ug/Kg		6/10/2020 03:21
Heptachlor	< 3.24	ug/Kg		6/10/2020 03:21
Heptachlor Epoxide	< 3.24	ug/Kg		6/10/2020 03:21
Methoxychlor	< 3.24	ug/Kg		6/10/2020 03:21
Toxaphene	< 32.4	ug/Kg		6/10/2020 03:21
trans-Chlordane	< 3.24	ug/Kg		6/10/2020 03:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**23.7**	33.3 - 107	*	6/10/2020 03:21
Tetrachloro-m-xylene (1)	**86.6**	28.5 - 99.8		6/10/2020 03:21

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 6/8/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 319	ug/Kg		6/6/2020 01:42
1,2,4,5-Tetrachlorobenzene	< 319	ug/Kg		6/6/2020 01:42
1,2,4-Trichlorobenzene	< 319	ug/Kg		6/6/2020 01:42
1,2-Dichlorobenzene	< 319	ug/Kg		6/6/2020 01:42
1,3-Dichlorobenzene	< 319	ug/Kg		6/6/2020 01:42
1,4-Dichlorobenzene	< 319	ug/Kg		6/6/2020 01:42
2,2-Oxybis (1-chloropropane)	< 319	ug/Kg		6/6/2020 01:42
2,3,4,6-Tetrachlorophenol	< 319	ug/Kg		6/6/2020 01:42
2,4,5-Trichlorophenol	< 319	ug/Kg		6/6/2020 01:42
2,4,6-Trichlorophenol	< 319	ug/Kg		6/6/2020 01:42
2,4-Dichlorophenol	< 319	ug/Kg		6/6/2020 01:42
2,4-Dimethylphenol	< 319	ug/Kg		6/6/2020 01:42
2,4-Dinitrophenol	< 1270	ug/Kg		6/6/2020 01:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-3		
Lab Sample ID:	202413-01	**Date Sampled:**	6/2/2020
Matrix:	Soil	**Date Received:**	6/3/2020

2,4-Dinitrotoluene	< 319	ug/Kg	6/6/2020 01:42
2,6-Dinitrotoluene	< 319	ug/Kg	6/6/2020 01:42
2-Chloronaphthalene	< 319	ug/Kg	6/6/2020 01:42
2-Chlorophenol	< 319	ug/Kg	6/6/2020 01:42
2-Methylnapthalene	< 319	ug/Kg	6/6/2020 01:42
2-Methylphenol	< 319	ug/Kg	6/6/2020 01:42
2-Nitroaniline	< 319	ug/Kg	6/6/2020 01:42
2-Nitrophenol	< 319	ug/Kg	6/6/2020 01:42
3&4-Methylphenol	< 319	ug/Kg	6/6/2020 01:42
3,3'-Dichlorobenzidine	< 319	ug/Kg	6/6/2020 01:42
3-Nitroaniline	< 319	ug/Kg	6/6/2020 01:42
4,6-Dinitro-2-methylphenol	< 426	ug/Kg	6/6/2020 01:42
4-Bromophenyl phenyl ether	< 319	ug/Kg	6/6/2020 01:42
4-Chloro-3-methylphenol	< 319	ug/Kg	6/6/2020 01:42
4-Chloroaniline	< 319	ug/Kg	6/6/2020 01:42
4-Chlorophenyl phenyl ether	< 319	ug/Kg	6/6/2020 01:42
4-Nitroaniline	< 319	ug/Kg	6/6/2020 01:42
4-Nitrophenol	< 319	ug/Kg	6/6/2020 01:42
Acenaphthene	< 319	ug/Kg	6/6/2020 01:42
Acenaphthylene	< 319	ug/Kg	6/6/2020 01:42
Acetophenone	< 319	ug/Kg	6/6/2020 01:42
Anthracene	< 319	ug/Kg	6/6/2020 01:42
Atrazine	< 319	ug/Kg	6/6/2020 01:42
Benzaldehyde	< 319	ug/Kg	6/6/2020 01:42
Benzo (a) anthracene	< 319	ug/Kg	6/6/2020 01:42
Benzo (a) pyrene	< 319	ug/Kg	6/6/2020 01:42
Benzo (b) fluoranthene	< 319	ug/Kg	6/6/2020 01:42
Benzo (g,h,i) perylene	< 319	ug/Kg	6/6/2020 01:42
Benzo (k) fluoranthene	< 319	ug/Kg	6/6/2020 01:42
Bis (2-chloroethoxy) methane	< 319	ug/Kg	6/6/2020 01:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-3
Lab Sample ID: 202413-01 **Date Sampled:** 6/2/2020
Matrix: Soil **Date Received:** 6/3/2020

Bis (2-chloroethyl) ether	< 319	ug/Kg	6/6/2020	01:42
Bis (2-ethylhexyl) phthalate	< 319	ug/Kg	6/6/2020	01:42
Butylbenzylphthalate	< 319	ug/Kg	6/6/2020	01:42
Caprolactam	< 319	ug/Kg	6/6/2020	01:42
Carbazole	< 319	ug/Kg	6/6/2020	01:42
Chrysene	< 319	ug/Kg	6/6/2020	01:42
Dibenz (a,h) anthracene	< 319	ug/Kg	6/6/2020	01:42
Dibenzofuran	< 319	ug/Kg	6/6/2020	01:42
Diethyl phthalate	< 319	ug/Kg	6/6/2020	01:42
Dimethyl phthalate	< 319	ug/Kg	6/6/2020	01:42
Di-n-butyl phthalate	< 319	ug/Kg	6/6/2020	01:42
Di-n-octylphthalate	< 319	ug/Kg	6/6/2020	01:42
Fluoranthene	< 319	ug/Kg	6/6/2020	01:42
Fluorene	< 319	ug/Kg	6/6/2020	01:42
Hexachlorobenzene	< 319	ug/Kg	6/6/2020	01:42
Hexachlorobutadiene	< 319	ug/Kg	6/6/2020	01:42
Hexachlorocyclopentadiene	< 1270	ug/Kg	6/6/2020	01:42
Hexachloroethane	< 319	ug/Kg	6/6/2020	01:42
Indeno (1,2,3-cd) pyrene	< 319	ug/Kg	6/6/2020	01:42
Isophorone	< 319	ug/Kg	6/6/2020	01:42
Naphthalene	< 319	ug/Kg	6/6/2020	01:42
Nitrobenzene	< 319	ug/Kg	6/6/2020	01:42
N-Nitroso-di-n-propylamine	< 319	ug/Kg	6/6/2020	01:42
N-Nitrosodiphenylamine	< 319	ug/Kg	6/6/2020	01:42
Pentachlorophenol	< 637	ug/Kg	6/6/2020	01:42
Phenanthrene	< 319	ug/Kg	6/6/2020	01:42
Phenol	< 319	ug/Kg	6/6/2020	01:42
Pyrene	< 319	ug/Kg	6/6/2020	01:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-3
Lab Sample ID: 202413-01 **Date Sampled:** 6/2/2020
Matrix: Soil **Date Received:** 6/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**83.0**	39 - 88.1		6/6/2020	01:42
2-Fluorobiphenyl	**78.2**	42.5 - 81.1		6/6/2020	01:42
2-Fluorophenol	**103**	39.8 - 77.3	*	6/6/2020	01:42
Nitrobenzene-d5	**60.3**	40.1 - 77.1		6/6/2020	01:42
Phenol-d5	**73.2**	41.7 - 76.6		6/6/2020	01:42
Terphenyl-d14	**76.4**	41.6 - 96.8		6/6/2020	01:42

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/5/2020
Data File: B46888.D

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<192	ug/Kg		6/6/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.66	ug/Kg		6/15/2020	19:49
1,1,2,2-Tetrachloroethane	< 7.66	ug/Kg		6/15/2020	19:49
1,1,2-Trichloroethane	< 7.66	ug/Kg		6/15/2020	19:49
1,1-Dichloroethane	< 7.66	ug/Kg		6/15/2020	19:49
1,1-Dichloroethene	< 7.66	ug/Kg		6/15/2020	19:49
1,2,3-Trichlorobenzene	< 19.2	ug/Kg		6/15/2020	19:49
1,2,4-Trichlorobenzene	< 19.2	ug/Kg		6/15/2020	19:49
1,2,4-Trimethylbenzene	< 7.66	ug/Kg		6/15/2020	19:49
1,2-Dibromo-3-Chloropropane	< 38.3	ug/Kg		6/15/2020	19:49
1,2-Dibromoethane	< 7.66	ug/Kg		6/15/2020	19:49
1,2-Dichlorobenzene	< 7.66	ug/Kg		6/15/2020	19:49
1,2-Dichloroethane	< 7.66	ug/Kg		6/15/2020	19:49

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-3		
Lab Sample ID:	202413-01	**Date Sampled:**	6/2/2020
Matrix:	Soil	**Date Received:**	6/3/2020

1,2-Dichloropropane	< 7.66	ug/Kg	6/15/2020 19:49
1,3,5-Trimethylbenzene	< 7.66	ug/Kg	6/15/2020 19:49
1,3-Dichlorobenzene	< 7.66	ug/Kg	6/15/2020 19:49
1,4-Dichlorobenzene	< 7.66	ug/Kg	6/15/2020 19:49
1,4-Dioxane	< 76.6	ug/Kg	6/15/2020 19:49
2-Butanone	< 38.3	ug/Kg	6/15/2020 19:49
2-Hexanone	< 19.2	ug/Kg	6/15/2020 19:49
4-Methyl-2-pentanone	< 19.2	ug/Kg	6/15/2020 19:49
Acetone	< 38.3	ug/Kg	6/15/2020 19:49
Benzene	< 7.66	ug/Kg	6/15/2020 19:49
Bromochloromethane	< 19.2	ug/Kg	6/15/2020 19:49
Bromodichloromethane	< 7.66	ug/Kg	6/15/2020 19:49
Bromoform	< 19.2	ug/Kg	6/15/2020 19:49
Bromomethane	< 7.66	ug/Kg	6/15/2020 19:49
Carbon disulfide	< 7.66	ug/Kg	6/15/2020 19:49
Carbon Tetrachloride	< 7.66	ug/Kg	6/15/2020 19:49
Chlorobenzene	< 7.66	ug/Kg	6/15/2020 19:49
Chloroethane	< 7.66	ug/Kg	6/15/2020 19:49
Chloroform	< 7.66	ug/Kg	6/15/2020 19:49
Chloromethane	< 7.66	ug/Kg	6/15/2020 19:49
cis-1,2-Dichloroethene	< 7.66	ug/Kg	6/15/2020 19:49
cis-1,3-Dichloropropene	< 7.66	ug/Kg	6/15/2020 19:49
Cyclohexane	< 38.3	ug/Kg	6/15/2020 19:49
Dibromochloromethane	< 7.66	ug/Kg	6/15/2020 19:49
Dichlorodifluoromethane	< 7.66	ug/Kg	6/15/2020 19:49
Ethylbenzene	< 7.66	ug/Kg	6/15/2020 19:49
Freon 113	< 7.66	ug/Kg	6/15/2020 19:49
Isopropylbenzene	< 7.66	ug/Kg	6/15/2020 19:49
m,p-Xylene	< 7.66	ug/Kg	6/15/2020 19:49
Methyl acetate	< 7.66	ug/Kg	6/15/2020 19:49

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-3

Lab Sample ID: 202413-01 **Date Sampled:** 6/2/2020

Matrix: Soil **Date Received:** 6/3/2020

Methyl tert-butyl Ether	< 7.66	ug/Kg	6/15/2020	19:49
Methylcyclohexane	< 7.66	ug/Kg	6/15/2020	19:49
Methylene chloride	< 19.2	ug/Kg	6/15/2020	19:49
Naphthalene	< 19.2	ug/Kg	6/15/2020	19:49
n-Butylbenzene	< 7.66	ug/Kg	6/15/2020	19:49
n-Propylbenzene	< 7.66	ug/Kg	6/15/2020	19:49
o-Xylene	< 7.66	ug/Kg	6/15/2020	19:49
p-Isopropyltoluene	< 7.66	ug/Kg	6/15/2020	19:49
sec-Butylbenzene	< 7.66	ug/Kg	6/15/2020	19:49
Styrene	< 19.2	ug/Kg	6/15/2020	19:49
tert-Butylbenzene	< 7.66	ug/Kg	6/15/2020	19:49
Tetrachloroethene	< 7.66	ug/Kg	6/15/2020	19:49
Toluene	< 7.66	ug/Kg	6/15/2020	19:49
trans-1,2-Dichloroethene	< 7.66	ug/Kg	6/15/2020	19:49
trans-1,3-Dichloropropene	< 7.66	ug/Kg	6/15/2020	19:49
Trichloroethene	< 7.66	ug/Kg	6/15/2020	19:49
Trichlorofluoromethane	< 7.66	ug/Kg	6/15/2020	19:49
Vinyl chloride	< 7.66	ug/Kg	6/15/2020	19:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	80.8 - 134		6/15/2020	19:49
4-Bromofluorobenzene	**79.8**	54.9 - 132		6/15/2020	19:49
Pentafluorobenzene	**97.1**	85.8 - 114		6/15/2020	19:49
Toluene-D8	**99.8**	81 - 117		6/15/2020	19:49

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

Data File: x70981.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.

Lab Project ID: 202413

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-3		
Lab Sample ID:	202413-01	**Date Sampled:**	6/2/2020
Matrix:	Soil	**Date Received:**	6/3/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.575	mg/Kg		6/11/2020

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 6/10/2020

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 ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	SJB Services	CLIENT:	Same	202413
ADDRESS:	5167 S. Park Avenue	ADDRESS:		
CITY:	Hamburg STATE: NY ZIP 14141	CITY:	STATE: ZIP:	Quotation #:
PHONE:	716-649-8110	PHONE:		Email: sbochenek@sjbempire.net
ATTN:	Dave Steiner	ATTN:		dsteiner@sjbempire.net

PROJECT REFERENCE

North Aud Block, Buffalo New York

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	Part 375 VOCs	Part 375 SVOCs	Part 375 Metals	Part 375 PCBs (Low Level)	Pesticides						REMARKS	PARADIGM LAB SAMPLE NUMBER
6-2-20	1200	X		B-3	So	3	X	X	X	X	X						Metals to include:	01
																	Cyanide	
																	Hexavalent Chrome	
																	Pesticide to include:	
																	Silvex	
																	Hex Chrome and Silvex	
																	sent to Alpha	

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

Stephen Bochenek 6-2-20
Sampled By — Date/Time

Relinquished By — Date/Time

Brian Zeck 6-3-20 10:00am
Received By — Date/Time

6/3/2020 16:29
Received @ Lab By — Date/Time

9°C iced 6/3/2020 16:17

Total Cost:

P.I.F.

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: SJB Services **Completed by:** Glenn Pezzulo

Lab Project ID: 202413 **Date:** 6/3/2020

Sample Condition Requirements

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

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
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	X metals
Comments	9°C iced		
Compliant Sample Quantity/Type	X		
Comments	Sample for Hex Cr, Silver sent directly to sub lab.		

L2022818

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

11148

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:		INVOICE TO:	
COMPANY:	Paradigm Environmental	COMPANY:	Same
ADDRESS:	179 Lake Avenue	ADDRESS:	
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:	
PHONE: FAX:		PHONE: FAX:	
ATTN:	Reporting	ATTN:	Accounts Payable
COMMENTS:	Please email results to reporting@paradigmenv.com		

LAB PROJECT #:

CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)

STD: 1 2 3 5 OTHER: 10 day

Date Due:

PROJECT NAME/SITE NAME: North And Block Buffalo NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Hex. Chrome	Silver									REMARKS	PARADIGM LAB SAMPLE NUMBER
6-2-20	1200	X		B-3	SO	1	X	X										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments		
Preservation:	Y ☐	N ☐
Comments		
Holding Time:	Y ☐	N ☐
Comments		
Temperature	Y ☐	N ☐
Comments Temp 3.9°C SRC 6/16/2020		

Client

Sampled By: Brian Block	Date/Time: 6-3-20	11:30
Relinquished By: Jocelyn Filey (AAL)	Date/Time: 6/3/20	11:30
Received By: Jocelyn Filey (AAL)	Date/Time: 6/3/20	11:30
Received By: [illegible]	Date/Time: 6/4/20	01:15
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

SJB Services, Inc.

For Lab Project ID

202447

Referencing

North Aud Block, Buffalo New York

Prepared

Thursday, June 18, 2020

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: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-4		
Lab Sample ID:	202447-01	**Date Sampled:**	6/3/2020
Matrix:	Soil	**Date Received:**	6/4/2020

Hexavalent Chromium

Analyte	Result	Units	Qualifier	Date Analyzed
Chrome, Hexavalent	<0.972	mg/Kg		6/10/2020

The Insoluble MS recovery for chromium, hexavalent (60%), performed on this sample, is outside the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (0%) was also outside criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 94%.

Method Reference(s): EPA 7196A
Subcontractor ELAP ID: 11148

Part 375 Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**2.67**	mg/Kg		6/9/2020 18:40
Barium	**205**	mg/Kg	DM	6/9/2020 18:40
Beryllium	< 0.275	mg/Kg		6/9/2020 18:40
Cadmium	**0.311**	mg/Kg	M	6/9/2020 18:40
Chromium	**8.06**	mg/Kg	D	6/9/2020 18:40
Copper	**19.6**	mg/Kg	D	6/9/2020 18:40
Lead	**44.2**	mg/Kg	D	6/9/2020 18:40
Manganese	**155**	mg/Kg	M	6/9/2020 18:40
Nickel	**6.97**	mg/Kg	M	6/9/2020 18:40
Selenium	< 2.20	mg/Kg		6/9/2020 18:40
Silver	< 0.550	mg/Kg		6/9/2020 18:40
Zinc	**63.0**	mg/Kg		6/9/2020 18:40

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/8/2020
Data File: 200609B

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**1.62**	mg/Kg		6/8/2020 10:01

Method Reference(s): EPA 7471B
Preparation Date: 6/5/2020
Data File: Hg200608A

Report Prepared Thursday, June 18, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-4		
Lab Sample ID:	202447-01	**Date Sampled:**	6/3/2020
Matrix:	Soil	**Date Received:**	6/4/2020

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1221	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1232	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1242	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1248	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1254	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1260	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1262	< 0.0325	mg/Kg		6/9/2020 02:42
PCB-1268	< 0.0325	mg/Kg		6/9/2020 02:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**60.1**	18.2 - 85.6		6/9/2020 02:42

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 6/8/2020

Chlorinated Pesticides

Analyte	Result	Units	Qualifier	Date Analyzed
4,4-DDD	< 3.25	ug/Kg		6/10/2020 03:39
4,4-DDE	< 3.25	ug/Kg		6/10/2020 03:39
4,4-DDT	< 3.25	ug/Kg		6/10/2020 03:39
Aldrin	< 3.25	ug/Kg		6/10/2020 03:39
alpha-BHC	< 3.25	ug/Kg		6/10/2020 03:39
beta-BHC	< 3.25	ug/Kg		6/10/2020 03:39
cis-Chlordane	< 3.25	ug/Kg		6/10/2020 03:39
delta-BHC	< 3.25	ug/Kg		6/10/2020 03:39
Dieldrin	< 3.25	ug/Kg		6/10/2020 03:39
Endosulfan I	< 3.25	ug/Kg		6/10/2020 03:39
Endosulfan II	< 3.25	ug/Kg		6/10/2020 03:39
Endosulfan Sulfate	< 3.25	ug/Kg		6/10/2020 03:39

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-4
Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Matrix: Soil **Date Received:** 6/4/2020

Endrin	< 3.25	ug/Kg		6/10/2020 03:39
Endrin Aldehyde	< 3.25	ug/Kg		6/10/2020 03:39
Endrin Ketone	< 3.25	ug/Kg		6/10/2020 03:39
gamma-BHC (Lindane)	< 3.25	ug/Kg		6/10/2020 03:39
Heptachlor	< 3.25	ug/Kg		6/10/2020 03:39
Heptachlor Epoxide	< 3.25	ug/Kg		6/10/2020 03:39
Methoxychlor	< 3.25	ug/Kg		6/10/2020 03:39
Toxaphene	< 32.5	ug/Kg		6/10/2020 03:39
trans-Chlordane	< 3.25	ug/Kg		6/10/2020 03:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**38.4**	33.3 - 107		6/10/2020 03:39
Tetrachloro-m-xylene (1)	**88.1**	28.5 - 99.8		6/10/2020 03:39

Method Reference(s): EPA 8081B
EPA 3546
Preparation Date: 6/8/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 295	ug/Kg		6/6/2020 02:11
1,2,4,5-Tetrachlorobenzene	< 295	ug/Kg		6/6/2020 02:11
1,2,4-Trichlorobenzene	< 295	ug/Kg		6/6/2020 02:11
1,2-Dichlorobenzene	< 295	ug/Kg		6/6/2020 02:11
1,3-Dichlorobenzene	< 295	ug/Kg		6/6/2020 02:11
1,4-Dichlorobenzene	< 295	ug/Kg		6/6/2020 02:11
2,2-Oxybis (1-chloropropane)	< 295	ug/Kg		6/6/2020 02:11
2,3,4,6-Tetrachlorophenol	< 295	ug/Kg		6/6/2020 02:11
2,4,5-Trichlorophenol	< 295	ug/Kg		6/6/2020 02:11
2,4,6-Trichlorophenol	< 295	ug/Kg		6/6/2020 02:11
2,4-Dichlorophenol	< 295	ug/Kg		6/6/2020 02:11
2,4-Dimethylphenol	< 295	ug/Kg		6/6/2020 02:11
2,4-Dinitrophenol	< 1180	ug/Kg		6/6/2020 02:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-4
Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Matrix: Soil **Date Received:** 6/4/2020

2,4-Dinitrotoluene	< 295	ug/Kg	6/6/2020	02:11
2,6-Dinitrotoluene	< 295	ug/Kg	6/6/2020	02:11
2-Chloronaphthalene	< 295	ug/Kg	6/6/2020	02:11
2-Chlorophenol	< 295	ug/Kg	6/6/2020	02:11
2-Methylnapthalene	< 295	ug/Kg	6/6/2020	02:11
2-Methylphenol	< 295	ug/Kg	6/6/2020	02:11
2-Nitroaniline	< 295	ug/Kg	6/6/2020	02:11
2-Nitrophenol	< 295	ug/Kg	6/6/2020	02:11
3&4-Methylphenol	< 295	ug/Kg	6/6/2020	02:11
3,3'-Dichlorobenzidine	< 295	ug/Kg	6/6/2020	02:11
3-Nitroaniline	< 295	ug/Kg	6/6/2020	02:11
4,6-Dinitro-2-methylphenol	< 395	ug/Kg	6/6/2020	02:11
4-Bromophenyl phenyl ether	< 295	ug/Kg	6/6/2020	02:11
4-Chloro-3-methylphenol	< 295	ug/Kg	6/6/2020	02:11
4-Chloroaniline	< 295	ug/Kg	6/6/2020	02:11
4-Chlorophenyl phenyl ether	< 295	ug/Kg	6/6/2020	02:11
4-Nitroaniline	< 295	ug/Kg	6/6/2020	02:11
4-Nitrophenol	< 295	ug/Kg	6/6/2020	02:11
Acenaphthene	< 295	ug/Kg	6/6/2020	02:11
Acenaphthylene	< 295	ug/Kg	6/6/2020	02:11
Acetophenone	< 295	ug/Kg	6/6/2020	02:11
Anthracene	< 295	ug/Kg	6/6/2020	02:11
Atrazine	< 295	ug/Kg	6/6/2020	02:11
Benzaldehyde	< 295	ug/Kg	6/6/2020	02:11
Benzo (a) anthracene	< 295	ug/Kg	6/6/2020	02:11
Benzo (a) pyrene	< 295	ug/Kg	6/6/2020	02:11
Benzo (b) fluoranthene	< 295	ug/Kg	6/6/2020	02:11
Benzo (g,h,i) perylene	< 295	ug/Kg	6/6/2020	02:11
Benzo (k) fluoranthene	< 295	ug/Kg	6/6/2020	02:11
Bis (2-chloroethoxy) methane	< 295	ug/Kg	6/6/2020	02:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-4
Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Matrix: Soil **Date Received:** 6/4/2020

Bis (2-chloroethyl) ether	< 295	ug/Kg	6/6/2020	02:11
Bis (2-ethylhexyl) phthalate	< 295	ug/Kg	6/6/2020	02:11
Butylbenzylphthalate	< 295	ug/Kg	6/6/2020	02:11
Caprolactam	< 295	ug/Kg	6/6/2020	02:11
Carbazole	< 295	ug/Kg	6/6/2020	02:11
Chrysene	< 295	ug/Kg	6/6/2020	02:11
Dibenz (a,h) anthracene	< 295	ug/Kg	6/6/2020	02:11
Dibenzofuran	< 295	ug/Kg	6/6/2020	02:11
Diethyl phthalate	< 295	ug/Kg	6/6/2020	02:11
Dimethyl phthalate	< 295	ug/Kg	6/6/2020	02:11
Di-n-butyl phthalate	< 295	ug/Kg	6/6/2020	02:11
Di-n-octylphthalate	< 295	ug/Kg	6/6/2020	02:11
Fluoranthene	**528**	ug/Kg	6/6/2020	02:11
Fluorene	< 295	ug/Kg	6/6/2020	02:11
Hexachlorobenzene	< 295	ug/Kg	6/6/2020	02:11
Hexachlorobutadiene	< 295	ug/Kg	6/6/2020	02:11
Hexachlorocyclopentadiene	< 1180	ug/Kg	6/6/2020	02:11
Hexachloroethane	< 295	ug/Kg	6/6/2020	02:11
Indeno (1,2,3-cd) pyrene	< 295	ug/Kg	6/6/2020	02:11
Isophorone	< 295	ug/Kg	6/6/2020	02:11
Naphthalene	< 295	ug/Kg	6/6/2020	02:11
Nitrobenzene	< 295	ug/Kg	6/6/2020	02:11
N-Nitroso-di-n-propylamine	< 295	ug/Kg	6/6/2020	02:11
N-Nitrosodiphenylamine	< 295	ug/Kg	6/6/2020	02:11
Pentachlorophenol	< 590	ug/Kg	6/6/2020	02:11
Phenanthrene	**652**	ug/Kg	6/6/2020	02:11
Phenol	< 295	ug/Kg	6/6/2020	02:11
Pyrene	**445**	ug/Kg	6/6/2020	02:11

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-4
Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Matrix: Soil **Date Received:** 6/4/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**82.8**	39 - 88.1		6/6/2020	02:11
2-Fluorobiphenyl	**92.6**	42.5 - 81.1	*	6/6/2020	02:11
2-Fluorophenol	**101**	39.8 - 77.3	*	6/6/2020	02:11
Nitrobenzene-d5	**57.9**	40.1 - 77.1		6/6/2020	02:11
Phenol-d5	**80.8**	41.7 - 76.6	*	6/6/2020	02:11
Terphenyl-d14	**75.6**	41.6 - 96.8		6/6/2020	02:11

Method Reference(s): EPA 8270D
EPA 3546
Preparation Date: 6/5/2020
Data File: B46889.D

Herbicides

Analyte	Result	Units	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<200	ug/Kg		6/6/2020

Method Reference(s): EPA 8151A
Subcontractor ELAP ID: 11148

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 7.85	ug/Kg		6/17/2020	14:48
1,1,2,2-Tetrachloroethane	< 7.85	ug/Kg		6/17/2020	14:48
1,1,2-Trichloroethane	< 7.85	ug/Kg		6/17/2020	14:48
1,1-Dichloroethane	< 7.85	ug/Kg		6/17/2020	14:48
1,1-Dichloroethene	< 7.85	ug/Kg		6/17/2020	14:48
1,2,3-Trichlorobenzene	< 19.6	ug/Kg		6/17/2020	14:48
1,2,4-Trichlorobenzene	< 19.6	ug/Kg		6/17/2020	14:48
1,2,4-Trimethylbenzene	< 7.85	ug/Kg		6/17/2020	14:48
1,2-Dibromo-3-Chloropropane	< 39.3	ug/Kg		6/17/2020	14:48
1,2-Dibromoethane	< 7.85	ug/Kg		6/17/2020	14:48
1,2-Dichlorobenzene	< 7.85	ug/Kg		6/17/2020	14:48
1,2-Dichloroethane	< 7.85	ug/Kg		6/17/2020	14:48

Report Prepared Thursday, June 18, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-4
Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Matrix: Soil **Date Received:** 6/4/2020

1,2-Dichloropropane	< 7.85	ug/Kg	6/17/2020	14:48
1,3,5-Trimethylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
1,3-Dichlorobenzene	< 7.85	ug/Kg	6/17/2020	14:48
1,4-Dichlorobenzene	< 7.85	ug/Kg	6/17/2020	14:48
1,4-Dioxane	< 78.5	ug/Kg	6/17/2020	14:48
2-Butanone	< 39.3	ug/Kg	6/17/2020	14:48
2-Hexanone	< 19.6	ug/Kg	6/17/2020	14:48
4-Methyl-2-pentanone	< 19.6	ug/Kg	6/17/2020	14:48
Acetone	< 39.3	ug/Kg	6/17/2020	14:48
Benzene	< 7.85	ug/Kg	6/17/2020	14:48
Bromochloromethane	< 19.6	ug/Kg	6/17/2020	14:48
Bromodichloromethane	< 7.85	ug/Kg	6/17/2020	14:48
Bromoform	< 19.6	ug/Kg	6/17/2020	14:48
Bromomethane	< 7.85	ug/Kg	6/17/2020	14:48
Carbon disulfide	< 7.85	ug/Kg	6/17/2020	14:48
Carbon Tetrachloride	< 7.85	ug/Kg	6/17/2020	14:48
Chlorobenzene	< 7.85	ug/Kg	6/17/2020	14:48
Chloroethane	< 7.85	ug/Kg	6/17/2020	14:48
Chloroform	< 7.85	ug/Kg	6/17/2020	14:48
Chloromethane	< 7.85	ug/Kg	6/17/2020	14:48
cis-1,2-Dichloroethene	< 7.85	ug/Kg	6/17/2020	14:48
cis-1,3-Dichloropropene	< 7.85	ug/Kg	6/17/2020	14:48
Cyclohexane	< 39.3	ug/Kg	6/17/2020	14:48
Dibromochloromethane	< 7.85	ug/Kg	6/17/2020	14:48
Dichlorodifluoromethane	< 7.85	ug/Kg	6/17/2020	14:48
Ethylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
Freon 113	< 7.85	ug/Kg	6/17/2020	14:48
Isopropylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
m,p-Xylene	< 7.85	ug/Kg	6/17/2020	14:48
Methyl acetate	< 7.85	ug/Kg	6/17/2020	14:48

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-4		
Lab Sample ID:	202447-01	**Date Sampled:**	6/3/2020
Matrix:	Soil	**Date Received:**	6/4/2020

Methyl tert-butyl Ether	< 7.85	ug/Kg	6/17/2020	14:48
Methylcyclohexane	< 7.85	ug/Kg	6/17/2020	14:48
Methylene chloride	< 19.6	ug/Kg	6/17/2020	14:48
Naphthalene	< 19.6	ug/Kg	6/17/2020	14:48
n-Butylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
n-Propylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
o-Xylene	< 7.85	ug/Kg	6/17/2020	14:48
p-Isopropyltoluene	< 7.85	ug/Kg	6/17/2020	14:48
sec-Butylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
Styrene	< 19.6	ug/Kg	6/17/2020	14:48
tert-Butylbenzene	< 7.85	ug/Kg	6/17/2020	14:48
Tetrachloroethene	< 7.85	ug/Kg	6/17/2020	14:48
Toluene	< 7.85	ug/Kg	6/17/2020	14:48
trans-1,2-Dichloroethene	< 7.85	ug/Kg	6/17/2020	14:48
trans-1,3-Dichloropropene	< 7.85	ug/Kg	6/17/2020	14:48
Trichloroethene	< 7.85	ug/Kg	6/17/2020	14:48
Trichlorofluoromethane	< 7.85	ug/Kg	6/17/2020	14:48
Vinyl chloride	< 7.85	ug/Kg	6/17/2020	14:48

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**107**	80.8 - 134		6/17/2020	14:48
4-Bromofluorobenzene	**87.3**	54.9 - 132		6/17/2020	14:48
Pentafluorobenzene	**105**	85.8 - 114		6/17/2020	14:48
Toluene-D8	**99.4**	81 - 117		6/17/2020	14:48

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

Data File: x71033.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.

Lab Project ID: 202447

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-4		
Lab Sample ID:	202447-01	**Date Sampled:**	6/3/2020
Matrix:	Soil	**Date Received:**	6/4/2020

Total Cyanide

Analyte	Result	Units	Qualifier	Date Analyzed
Cyanide, Total	< 0.530	mg/Kg		6/11/2020

Method Reference(s): EPA 9014
EPA 9010C

Preparation Date: 6/11/2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Sample Spike and Sample Duplicate

Client: SJB Services, Inc. **Lab Project ID:** 202447

Project Reference: North Aud Block, Buffalo New York

Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Sample Identifier: B-4 **Date Received:** 6/4/2020
Matrix: Soil

Part 375 Metals (ICP)

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	**2.67**	mg/Kg	143	123	84.0	75 - 125		2.85	6.60	20		6/9/2020
Barium	**205**	mg/Kg	143	168	-25.8	75 - 125	*	35.8	140	20	*	6/9/2020
Beryllium	< 0.275	mg/Kg	28.5	22.0	77.1	75 - 125		<0.291	NC	20		6/9/2020
Cadmium	**0.311**	mg/Kg	57.0	42.4	73.7	75 - 125	*	0.309	0.526	20		6/9/2020
Chromium	**8.06**	mg/Kg	143	123	80.3	75 - 125		10.7	28.1	20	*	6/9/2020
Copper	**19.6**	mg/Kg	143	141	85.0	75 - 125		26.8	30.9	20	*	6/9/2020
Lead	**44.2**	mg/Kg	143	184	98.2	75 - 125		61.7	33.2	20	*	6/9/2020
Manganese	**155**	mg/Kg	57.0	193	65.6	75 - 125	*	152	1.72	20		6/9/2020
Nickel	**6.97**	mg/Kg	285	212	72.0	75 - 125	*	7.51	7.51	20		6/9/2020
Selenium	< 2.20	mg/Kg	143	108	75.4	75 - 125		<1.16	NC	20		6/9/2020
Silver	< 0.550	mg/Kg	14.3	13.1	91.8	75 - 125		<0.581	NC	20		6/9/2020
Zinc	**63.0**	mg/Kg	143	175	78.6	75 - 125		76.1	18.9	20		6/9/2020

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.

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.

Report Prepared Thursday, June 18, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Sample Spike and Sample Duplicate

Client: SJB Services, Inc. **Lab Project ID:** 202447

Project Reference: North Aud Block, Buffalo New York

Lab Sample ID: 202447-01 **Date Sampled:** 6/3/2020
Sample Identifier: B-4 **Date Received:** 6/4/2020
Matrix: Soil

Part 375 Metals (ICP)

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed

Method Reference(s): EPA 6010C
EPA 3050B
Preparation Date: 6/8/2020
200609B
QC Batch ID: QC200608Soil

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.

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.

Report Prepared Thursday, June 18, 2020

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 ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		
CLIENT:	SJB Services	CLIENT:	Same	LAB PROJECT ID 202447
ADDRESS:	5167 S. Park Avenue	ADDRESS:		
CITY:	Hamburg STATE: NY ZIP 14141	CITY:	STATE: ZIP:	Quotation #:
PHONE:	716-649-8110	PHONE:		Email: sbochenek@sjbempire.net dsteiner@sjbempire.net
ATTN:	Dave Steiner	ATTN:		

PROJECT REFERENCE

North Aud Block, Buffalo New York

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	Part 375 VOCs	Part 375 SVOCs	Part 375 Metals	Part 375 PCBs (Low Level)	Pesticides						REMARKS	PARADIGM LAB SAMPLE NUMBER
6-3-20	1500	X		B-4	SO	3	X	X	X	X	X						Metals to include:	01
																	Cyanide	
																	Hexavalent Chrome	
																	Pesticide to include:	
																	Silvex	
																	Hex Chrome and Silvex sent to Alpha	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	X	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: Stephen Bochenek 6-3-20 — Date/Time

Relinquished By: [signature] — Date/Time

Received By: Brian [signature] 6-4-20 10:35 — Date/Time

Received @ Lab By: [signature] 6/4/2020 16:15 — Date/Time

3°C iced 6/4/2020 16:00

Total Cost:

P.I.F.

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: SJB Services **Completed by:** Glenn Pezzulo

Lab Project ID: 202447 **Date:** 6/4/2020

Sample Condition Requirements

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

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X	X 5035	
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		X metals
Comments	3°C iced		
Compliant Sample Quantity/Type	X		
Comments	Sample for Hex Cr, Silver sent directly to sub lab.		

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Serial_No:06112009:52
L2023218

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

CHAIN OF CUSTODY

11148

PARADIGM

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD	OTHER
ATTN:	Reporting	ATTN:	Accounts Payable	1 2 3 5	10 Day
COMMENTS:	Please email results to reporting@paradigmenv.com			Date Due:	

PROJECT NAME/SITE NAME: North Aud Block, Buffalo NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	Hex. Chrome	Silvex									REMARKS	PARADIGM LAB SAMPLE NUMBER
6/3/20	15:00	X		B - 4	SO	1	X	X										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Preservation:	Y ☐	N ☐
Holding Time:	Y ☐	N ☐
Temperature: Temp 5.8°C	Y ☐	N ☐

Comments:

SRC 6/18/2020

Client

Sampled By	Date/Time	
Brian Zuch	6-4-20	1300
Relinquished By	Date/Time	
Jacelyn Foley (AAL)	6/4/20	13:00
Received By	Date/Time	
Jacelyn Foley (AAL)	6/4/20	13:00
~~Received By~~ RELINQUISHED BY	Date/Time	
[illegible]	6/5/20	01:20
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

SJB Services, Inc.

For Lab Project ID

202372

Referencing

North Aud Block, Buffalo New York

Prepared

Tuesday, June 16, 2020

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202372

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202372-01	**Date Sampled:**	6/1/2020
Matrix:	Soil	**Date Received:**	6/2/2020

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		6/16/2020

Method Reference(s): EPA 1030

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1221	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1232	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1242	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1248	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1254	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1260	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1262	< 0.133	mg/Kg		6/3/2020 13:42
PCB-1268	< 0.133	mg/Kg		6/3/2020 13:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**82.7**	18.2 - 85.6		6/3/2020 13:42

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 6/3/2020

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	8.09 @ 23.8 C	S.U.		6/4/2020 14:42

Method Reference(s): EPA 9045D

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202372

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-1		
Lab Sample ID:	202372-01A	**Date Sampled:**	6/1/2020
Matrix:	TCLP Extract	**Date Received:**	6/2/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		6/5/2020 02:45
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		6/5/2020 02:45
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		6/5/2020 02:45
2,4-Dinitrotoluene	< 40.0	ug/L	130		6/5/2020 02:45
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		6/5/2020 02:45
Hexachlorobenzene	< 40.0	ug/L	130		6/5/2020 02:45
Hexachlorobutadiene	< 40.0	ug/L	500		6/5/2020 02:45
Hexachloroethane	< 40.0	ug/L	3000		6/5/2020 02:45
Nitrobenzene	< 40.0	ug/L	2000		6/5/2020 02:45
Pentachlorophenol	< 80.0	ug/L	100000		6/5/2020 02:45
Pyridine	< 40.0	ug/L	5000		6/5/2020 02:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**83.5**	61.4 - 115		6/5/2020 02:45
2-Fluorobiphenyl	**77.8**	38.4 - 101		6/5/2020 02:45
2-Fluorophenol	**71.9**	12.7 - 105		6/5/2020 02:45
Nitrobenzene-d5	**79.5**	57.3 - 100		6/5/2020 02:45
Phenol-d5	**64.7**	10 - 107		6/5/2020 02:45
Terphenyl-d14	**82.3**	58.1 - 117		6/5/2020 02:45

Method Reference(s): EPA 8270D
EPA 1311 / 3510C
Preparation Date: 6/4/2020
Data File: B46841.D

TCLP Herbicides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<0.05	mg/L	1		6/7/2020
2,4-D	<0.50	mg/L	10		6/7/2020

Report Prepared Tuesday, June 16, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202372

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-1
Lab Sample ID: 202372-01A **Date Sampled:** 6/1/2020
Matrix: TCLP Extract **Date Received:** 6/2/2020

Method Reference(s): EPA 8151A
EPA 1311
Subcontractor ELAP ID: 11148

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		6/9/2020 09:12

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 6/8/2020
Data File: Hg200609A

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	< 2.00	ug/L	30		6/8/2020 15:04
Endrin	< 1.00	ug/L	20		6/8/2020 15:04
gamma-BHC (Lindane)	< 1.00	ug/L	400		6/8/2020 15:04
Heptachlor	< 1.00	ug/L	8		6/8/2020 15:04
Heptachlor Epoxide	< 2.00	ug/L	8		6/8/2020 15:04
Methoxychlor	< 1.00	ug/L	10000		6/8/2020 15:04
Toxaphene	< 20.0	ug/L	500		6/8/2020 15:04

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**129**	14.8 - 154		6/8/2020 15:04
Tetrachloro-m-xylene (1)	**101**	32.7 - 101		6/8/2020 15:04

Method Reference(s): EPA 8081B
EPA 1311 / 3510C
Preparation Date: 6/8/2020

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		6/4/2020 18:15
Barium	**1.17**	mg/L	100		6/4/2020 18:15
Cadmium	< 0.0250	mg/L	1		6/4/2020 18:15

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202372

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-1

Lab Sample ID: 202372-01A **Date Sampled:** 6/1/2020

Matrix: TCLP Extract **Date Received:** 6/2/2020

Chromium	< 0.500	mg/L	5	6/4/2020	18:15
Lead	< 0.500	mg/L	5	6/4/2020	18:15
Selenium	< 0.200	mg/L	1	6/4/2020	18:15
Silver	< 0.500	mg/L	5	6/4/2020	18:15

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 6/4/2020
Data File: 200604B

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed	
1,1-Dichloroethene	< 20.0	ug/L	700		6/5/2020	13:44
1,2-Dichloroethane	< 20.0	ug/L	500		6/5/2020	13:44
2-Butanone	< 100	ug/L	200000		6/5/2020	13:44
Benzene	< 20.0	ug/L	500		6/5/2020	13:44
Carbon Tetrachloride	< 20.0	ug/L	500		6/5/2020	13:44
Chlorobenzene	< 20.0	ug/L	100000		6/5/2020	13:44
Chloroform	< 20.0	ug/L	6000		6/5/2020	13:44
Tetrachloroethene	< 20.0	ug/L	700		6/5/2020	13:44
Trichloroethene	< 20.0	ug/L	500		6/5/2020	13:44
Vinyl chloride	< 20.0	ug/L	200		6/5/2020	13:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	80.8 - 132		6/5/2020	13:44
4-Bromofluorobenzene	**91.3**	56.6 - 130		6/5/2020	13:44
Pentafluorobenzene	**101**	87.4 - 113		6/5/2020	13:44
Toluene-D8	**100**	82.2 - 115		6/5/2020	13:44

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: x70753.D

Report Prepared Tuesday, June 16, 2020

Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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 ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

1 of 2

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	SJB Services	CLIENT:	Same	202372
ADDRESS:	5167 S. Park Avenue	ADDRESS:		
CITY: Hamburg	STATE: NY ZIP 14141	CITY:	STATE: ZIP:	Quotation #:
PHONE:	716-649-8110	PHONE:		Email: sbochenek@sjbempire.net
ATTN:	Dave Steiner	ATTN:		dsteiner@sjbempire.net

PROJECT REFERENCE

North Aud Block, Buffalo New York

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	TCLP Volatiles	TCLP Semi-Volatiles	TCLP Metals	Ignitability	pH	PCB's	TCLP Herbicides	TCLP Pesticides			REMARKS	PARADIGM LAB SAMPLE NUMBER
B-1	1155	X		B-1	SO	3	X	X	X	X	X	X	X	X			TCLP Herb sent	01A
6-1-20																	to Alpha	
per Sampled By line																		
GP 6/2/2020																	A for TCLP extract.	
																	GP 6/2/2020	

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

Stephen Bochenek	6-1-20	Sampled By / Date/Time
[signature]		Relinquished By / Date/Time
[signature]	6-2-20 11:36	Received By / Date/Time
[signature]	6/2/2020 15:45	Received @ Lab By / Date/Time
4°C iced	6/2/2020 15:09	

Total Cost:

P.I.F.

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: SJB Services **Completed by:** Glenn Pezzulo

Lab Project ID: 202372 **Date:** 6/2/2020

Sample Condition Requirements

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

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X TCLP VOA		X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	4°C iced		
Compliant Sample Quantity/Type	X		
Comments	Sample for TCLP Herbicides sent directly to sub lab.		

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

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

L2022653 **11148**

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD / OTHER	
ATTN:	Reporting	ATTN:	Accounts Payable	☐ 1 ☐ 2 ☐ 3 ☐ 5	10 Day
COMMENTS:	Please email results to reporting@paradigmenv.com			Date Due:	

PROJECT NAME/SITE NAME: North Aud Block, Buffalo NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TCLP Herb										REMARKS	PARADIGM LAB SAMPLE NUMBER
6/1/20	11:55	X		B-1	SO	1	X											

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature: Temp 2.2°C	Y ☐	N ☐
Comments:		

SRC 6/16/2020

Client

Sampled By: Brian [illegible]	Date/Time: 6-2-20	1500
Relinquished By: [illegible] BAL	Date/Time: 6/2/20	1500
Received By: [illegible] BAL	Date/Time: 6/2/20	1500
~~Received By~~ Relinquished by: [illegible]	Date/Time: 6/3/20	00:30
Received @ Lab By: [illegible]	Date/Time:	

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

SJB Services, Inc.

For Lab Project ID

202446

Referencing

North Aud Block, Buffalo New York

Prepared

Thursday, June 18, 2020

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: 202446

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-5		
Lab Sample ID:	202446-01	**Date Sampled:**	6/3/2020
Matrix:	Soil	**Date Received:**	6/4/2020

Ignitability

Analyte	Result	Units	Qualifier	Date Analyzed
Ignitability	No Burn	mm / sec		6/17/2020

Method Reference(s): EPA 1030

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1221	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1232	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1242	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1248	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1254	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1260	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1262	< 0.119	mg/Kg		6/5/2020 21:50
PCB-1268	< 0.119	mg/Kg		6/5/2020 21:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	**60.2**	18.2 - 85.6		6/5/2020 21:50

Method Reference(s): EPA 8082A
EPA 3546

Preparation Date: 6/5/2020

pH

Analyte	Result	Units	Qualifier	Date Analyzed
pH	7.94 @ 24.0 C	S.U.		6/5/2020 15:36

Method Reference(s): EPA 9045D

Report Prepared Thursday, June 18, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202446

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-5		
Lab Sample ID:	202446-01A	**Date Sampled:**	6/3/2020
Matrix:	TCLP Extract	**Date Received:**	6/4/2020

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 40.0	ug/L	7500		6/10/2020 00:59
2,4,5-Trichlorophenol	< 40.0	ug/L	400000		6/10/2020 00:59
2,4,6-Trichlorophenol	< 40.0	ug/L	2000		6/10/2020 00:59
2,4-Dinitrotoluene	< 40.0	ug/L	130		6/10/2020 00:59
Cresols (as m,p,o-Cresol)	< 80.0	ug/L	200000		6/10/2020 00:59
Hexachlorobenzene	< 40.0	ug/L	130		6/10/2020 00:59
Hexachlorobutadiene	< 40.0	ug/L	500		6/10/2020 00:59
Hexachloroethane	< 40.0	ug/L	3000		6/10/2020 00:59
Nitrobenzene	< 40.0	ug/L	2000		6/10/2020 00:59
Pentachlorophenol	< 80.0	ug/L	100000		6/10/2020 00:59
Pyridine	< 40.0	ug/L	5000		6/10/2020 00:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**95.9**	61.4 - 115		6/10/2020 00:59
2-Fluorobiphenyl	**84.3**	38.4 - 101		6/10/2020 00:59
2-Fluorophenol	**75.5**	12.7 - 105		6/10/2020 00:59
Nitrobenzene-d5	**85.2**	57.3 - 100		6/10/2020 00:59
Phenol-d5	**69.4**	10 - 107		6/10/2020 00:59
Terphenyl-d14	**87.8**	58.1 - 117		6/10/2020 00:59

Internal standard outliers indicate probable matrix interference

Method Reference(s): EPA 8270D
EPA 1311 / 3510C

Preparation Date: 6/9/2020

Data File: B46961.D

TCLP Herbicides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
2,4,5-TP (Silvex)	<0.05	mg/L	1		6/7/2020
2,4-D	<0.50	mg/L	10		6/7/2020

Report Prepared Thursday, June 18, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202446

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier:	B-5		
Lab Sample ID:	202446-01A	**Date Sampled:**	6/3/2020
Matrix:	TCLP Extract	**Date Received:**	6/4/2020

Method Reference(s): EPA 8151A
EPA 1311
Subcontractor ELAP ID: 11148

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		6/9/2020 09:15

Method Reference(s): EPA 7470A
EPA 1311
Preparation Date: 6/8/2020
Data File: Hg200609A

TCLP Pesticides

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Chlordane	< 2.00	ug/L	30		6/8/2020 15:23
Endrin	< 1.00	ug/L	20		6/8/2020 15:23
gamma-BHC (Lindane)	< 1.00	ug/L	400		6/8/2020 15:23
Heptachlor	< 1.00	ug/L	8		6/8/2020 15:23
Heptachlor Epoxide	< 2.00	ug/L	8		6/8/2020 15:23
Methoxychlor	< 1.00	ug/L	10000		6/8/2020 15:23
Toxaphene	< 20.0	ug/L	500		6/8/2020 15:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Decachlorobiphenyl (1)	**128**	14.8 - 154		6/8/2020 15:23
Tetrachloro-m-xylene (1)	**93.5**	32.7 - 101		6/8/2020 15:23

Method Reference(s): EPA 8081B
EPA 1311 / 3510C
Preparation Date: 6/8/2020

TCLP RCRA Metals (ICP)

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Arsenic	< 0.500	mg/L	5		6/8/2020 20:56
Barium	**0.860**	mg/L	100		6/8/2020 20:56
Cadmium	< 0.0250	mg/L	1		6/8/2020 20:56

Report Prepared Thursday, June 18, 2020

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202446

Client: **SJB Services, Inc.**

Project Reference: North Aud Block, Buffalo New York

Sample Identifier: B-5

Lab Sample ID: 202446-01A **Date Sampled:** 6/3/2020

Matrix: TCLP Extract **Date Received:** 6/4/2020

Chromium	< 0.500	mg/L	5	6/8/2020	20:56
Lead	< 0.500	mg/L	5	6/8/2020	20:56
Selenium	< 0.200	mg/L	1	6/8/2020	20:56
Silver	< 0.500	mg/L	5	6/8/2020	20:56

Method Reference(s): EPA 6010C
EPA 1311 / 3005A
Preparation Date: 6/8/2020
Data File: 200608B

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed	
1,1-Dichloroethene	< 20.0	ug/L	700		6/11/2020	19:39
1,2-Dichloroethane	< 20.0	ug/L	500		6/11/2020	19:39
2-Butanone	< 100	ug/L	200000		6/11/2020	19:39
Benzene	< 20.0	ug/L	500		6/11/2020	19:39
Carbon Tetrachloride	< 20.0	ug/L	500		6/11/2020	19:39
Chlorobenzene	< 20.0	ug/L	100000		6/11/2020	19:39
Chloroform	< 20.0	ug/L	6000		6/11/2020	19:39
Tetrachloroethene	< 20.0	ug/L	700		6/11/2020	19:39
Trichloroethene	< 20.0	ug/L	500		6/11/2020	19:39
Vinyl chloride	< 20.0	ug/L	200		6/11/2020	19:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**114**	80.8 - 132		6/11/2020	19:39
4-Bromofluorobenzene	**87.9**	56.6 - 130		6/11/2020	19:39
Pentafluorobenzene	**106**	87.4 - 113		6/11/2020	19:39
Toluene-D8	**101**	82.2 - 115		6/11/2020	19:39

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: x70906.D

Analytical Report Appendix

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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

1 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC.

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		
CLIENT:	SJB Services	CLIENT:	Same	LAB PROJECT ID 202446
ADDRESS:	5167 S. Park Avenue	ADDRESS:		
CITY: Hamburg	STATE: NY ZIP 14141	CITY:	STATE: ZIP:	Quotation #:
PHONE:	716-649-8110	PHONE:		Email: sbochenek@sjbempire.net
ATTN:	Dave Steiner	ATTN:		dsteiner@sjbempire.net

PROJECT REFERENCE

North Aud Block, Buffalo New York

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	TCLP Volatiles	TCLP Semi-Volatiles	TCLP Metals	Ignitability	pH	PCB's	TCLP Herbicides	TCLP Pesticides			REMARKS	PARADIGM LAB SAMPLE NUMBER
6.3.20	1200	X		B.5	So	3	X	X	X	X	X	X	X	X			A for TCLP extract. CP 6/4/2020	01A
																	TCLP Herb	
																	sent to Alpha	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	X	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 :	☐

Stephen Bochenek 6.3.20
Sampled By — Date/Time

Relinquished By — Date/Time

Brian Zeed 6-4-20 10:35
Received By — Date/Time

JP 6/4/2020 16:13
Received @ Lab By — Date/Time

3°C iced 6/4/2020 16:00

Total Cost:

P.I.F.

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

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: SJB Services **Completed by:** Glenn Peczulo

Lab Project ID: 202446 **Date:** 6/4/2020

Sample Condition Requirements

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

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X TCLP VOA		X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	3°C iced		
Compliant Sample Quantity/Type	X		
Comments			

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

Serial_No:06102012:58

L2023210

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

CHAIN OF CUSTODY

11148

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:	
COMPANY:	Paradigm Environmental	COMPANY:	Same
ADDRESS:	179 Lake Avenue	ADDRESS:	
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:
PHONE:	FAX:	PHONE:	FAX:
ATTN:	Reporting	ATTN:	Accounts Payable
COMMENTS:	Please email results to reporting@paradigmenv.com		

LAB PROJECT #:

CLIENT PROJECT #:

TURNAROUND TIME: (WORKING DAYS)

STD: 1 2 3 5 OTHER: 10 Day

Date Due:

PROJECT NAME/SITE NAME: North Aud Block, Buffalo NY

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TCLP Herb									REMARKS	PARADIGM LAB SAMPLE NUMBER
6/3/20	12:00	X		B - 5	SO	1	X										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments		
Preservation:	Y ☐	N ☐
Comments		
Holding Time:	Y ☐	N ☐
Comments		
Temperature:	Y ☐	N ☐
Comments	Temp 5.6°C SRC 6/8/2020	

Client

Sampled By	Date/Time	
Brian Zand	6-4-20	1300
Relinquished By	**Date/Time**	
Jocelyn Foley (AAL)	6/4/20	13:00
Received By	**Date/Time**	
Jocelyn Foley (AAL)	6/4/20	13:00
~~Received By~~ RELINQUISHED BY	**Date/Time**	
[illegible]	6/5/20	0630
Received @ Lab By	**Date/Time**	

Total Cost:

P.I.F.

SIENNA
ENVIRONMENTAL TECHNOLOGIES
350 Elmwood Ave. • Buffalo, NY 14222
P 716.332.3134 F 716.332.3136

February 17, 2020

Herbert K. Guenther, AIA, NCARB, GGP
Architecture Group Leader
TY Lin International
77 Broadway Street, Suite 208
Buffalo, New York 14203

Re: Environmental Site Review
North Aud Block Project
Buffalo, New York
Sienna SET 3562

Dear Mr. Guenther:

Enclosed please find a final copy of our completed Environmental Site Review for the North Aud Block Project in Buffalo, New York.

If after reviewing this report you have any questions, or if we can be of assistance in any other way, please do not hesitate to call. Thank you for the opportunity to be of service to TY Lin International (TY Lin) and Project Team

Sincerely,
Sienna Environmental Technologies LLC

S L Drozdowski

Steven Drozdowski
Retired P.E. (Civil/Environmental)
Sr. EH+S Consultant & Dept. Manager

Environmental Site Review

FOR THE:
North Aud Block Project
Buffalo, New York

PREPARED BY:

SIENNA
ENVIRONMENTAL TECHNOLOGIES
350 Elmwood Avenue Buffalo, New York 14222
ph: 716.332.3134 www.siennaet.com

(SIENNA PROJECT SET 3562)

PREPARED FOR:

TY Lin International
77 Broadway Street, Suite 208
Buffalo, New York 14203

REPORT DATE:

February 17, 2020

Table of Contents

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1 Introduction

Sienna Environmental Technologies, LLC (Sienna) was retained by TY Lin International (TY Lin) to conduct an Environmental Site Review for the North Aud Block Site as part of the Infrastructure Design Services for the redevelopment of the site. The purpose of this review is to supplement previous environmental reviews and/or investigations previously completed for the project site for previous site investigation and/or construction and/or demolition activities for identifying and determining potential environmental conditions of concern in the project area. These environmental conditions could then be further evaluated and/or considered during the infrastructure design work or be noted for the construction phase(s) of forthcoming project (s).

The purpose of this review is that the North Aud Block has been a developed commercial area for nearly two hundred (200) years since the construction of the Erie Canal and connecting Commercial Slip and Prime Slip from the Buffalo River. With the presence of the Erie Canal, slips and adjacent Buffalo waterfront the area developed and redeveloped over many years, including the construction of the Buffalo Memorial Auditorium (Aud) in the 1930s, and its subsequent demolition in the 2000s. The commercial activities and the use of the land, including the various site excavations for the buildings and adjacent canals, and the subsequent filling of building excavations and the canals need to be evaluated as they could have resulted in the burial(s) and/or release(s) of materials of environmental concern (petroleum products, chemicals, pesticides, herbicides, PCBs, etc.) over the years.

Prior to the construction of the Aud in the 1930s environmental regulations were mostly addressed for health and nuisance reasons, such as foul-smelling abandoned canals, dumped of garbage, etc. with few environmental regulations in place. By the time of the demolition of the Aud in the 2000s environmental regulations were in place to address building demolitions and contaminated soils and groundwater encountered in site cleanups and redevelopment. However, newer environmental regulations and guidelines implemented since that time may necessitate additional consideration for environmental conditions of concern for forthcoming project(s). The potential for materials of environmental concern (waste, debris, garbage, contaminated soil, unacceptable fill, etc.) to be present in the project area, or to require specific onsite or offsite handling and/or disposal need to be evaluated.

The review is to utilize and evaluate available environmental information for indications of environmental conditions of concern in the project area, including:

a.) State environmental databases
b.) Current and historical topographic maps
c.) Current and historical aerial photographs
d.) Current and historical maps

The following sources of information were provided and and/or obtained and reviewed:

a.) Exhibit D-1 Memorial Auditorium Block Environmental Reports, including:
    a. Analytical Report Cover Page
    b. Environmental Soil Data Report for the former Buffalo Memorial Auditorium Site
    c. Supplemental Environmental Data Report for the Inner Harbor Development
b.) Exhibit D-2 Task 02 – Schematic Design South Aud Block Redevelopment
    a. Site Environmental Lab Results

In addition, a review of aerial photographs by MapQuest and by Bing Maps as well as drive-by site visits were conducted to provide visual reconnaissance to ascertain potential environmental conditions noted in the above information.

2 Background and Site Description

The North Aud Block is the remaining northern section of the previous Buffalo Memorial Auditorium demolished in the 2000s to allow for future re-development of the site. The area is bounded by Main Street on the east, Lower Terrace Street on the north, Pearl Street on the west, and Canalside (the former Erie Canal) on the south. As part of the demolition and the preparation of the site for future re-development of the site it has been excavated below grade, below the levels of the adjacent streets.

When constructed in the 1800s the Erie Canal traversed the west side of Buffalo (southeast direction) connecting to Lake Erie and the Buffalo River. At Main Street, between what is now Scott Street and Exchange Street, the Erie Canal joined the Main and Hamburg Canal. West of Main Street the Erie Canal was connected to the Buffalo River and the harbor via the Commercial Slip and Prime Slip. A 1905 map shows the canals and slips, and identifies the Buffalo River as the Buffalo Harbor (Creek). Other various project photographs, as well as, various historical topographic maps and aerial photographs show the urban commercial development of the North Aud Block, particularly over the past one hundred (100) years.

As the 1900s approached the Erie Canal and various connecting canals and slips become “filthy waters” according to many accounts and eventually, about 100 years ago, the canals and slips were filled in, and railroads, roads, and/or buildings were built atop these filled-in waterways. However, at that time, as was the practice of the time, the canals and slips were filled with whatever needed disposal, including garbage, waste, building materials, etc. In some cases, such as for the “Hamburg Drain” these abandoned waterways become parts of the City’s combined sewer system to carry storm water and sanitary sewage to the Buffalo River (and eventually after 1935 to the City’s sewage treatment system).

The Aud was constructed on the North and South Aud Blocks in the late 1930s which included a section of the filled-in Erie Canal and adjoining slips. The existing buildings in the area, were reportedly in a dilapidated state and were demolished for the construction of the Aud. Most demolition material would most likely have been disposed of off-site, however some materials and/or residual contamination may have been left or remained onsite as not likely an environmental concern at that time. Any demolition and/or contamination cleanup prior to 1970, when the USEPA and NYS Department of Environmental Conservation were formed to deal with air, water and soil contamination, would have been by the NYS Health Department, based upon the health and nuisance concerns, with limited regulations on cleanup and disposal.

The environmental regulations of the 1970 through the 1990s, including OSHA 1910.120 (Hazwoper – 1987)), NYSDEC Spill Remediation Series (Stars – 1992), and NYSDEC Technical and Administrative Guidance Memorandum Soil Cleanup Objectives and Levels (TAGM 4046 – 1994), and the 6 NYCRR Part 360 Solid Waste Management and Part 375 Environmental Remediation Programs were in place for the demolition of the Aud in the 2000s. As such, for the Exhibit D-1 and D-2, referenced above, the subsurface investigations and soil sampling and analysis completed in 2009 thorough 2014, involving LIRO Engineers, C&S Companies, Empire Geo Services, Inc. and Paradigm Environmental Services, Inc. all utilized these regulations and guidances for that site activities, with the addition later on of the NYSDEC Policy CP-51 / Soil Cleanup Guidance document, issued October 21, 2010. Site soil was excavated and remediated during work in the south and north sections of the Aud block based upon these cleanup levels and requirements. The boring logs note the presence of the fill materials found in the subsurface soils, particularly in the area of the former canal. Soil encountered exceeding cleanup levels and requirements would have apparently been remediated, however for contamination and fill materials not exceeding cleanup levels and requirements would have remained in place, or utilized onsite as needed in accordance with the regulations at that time.

The newer NYSDEC Policy CP-51 / Soil Cleanup Guidance provides the framework for soil cleanup objectives, including for gasoline contaminated soils, as well as for residential, commercial and industrial development (redevelopment) of a site with soil contamination. This policy is based upon the 6 NYCRR Part 375 Environmental Remediation Programs, effective date December 14, 2006, for environmental protection. Most of the demolition and cleanup on-site was performed according to the older standards and guidelines.

In addition, the recently revised 6 NYCRR Part 360 Solid Waste Management, effective November 4, 2017, generally applies to off-site and on-site management of fill soil materials, generally utilizing the soil cleanup objectives of the 6 NYCRR Part 375 regulations. The Part 360 regulations address the acceptable physical criteria and concentration (contamination) level for fill material use and reuse on-site and/or for disposal. In general, only soil, sand, gravel or rock, with no non-soil constituents and specified maximum concentration levels can be used as general fill. Other fill material types/uses (restricted, limited) have specific end use, physical criteria, placement and cover, and maximum concentration level requirements. Most, if not all, of the demolition and cleanup on-site onsite was performed prior to the issuance and enforcement of this updated fill soil materials regulations and guidelines.

A review of the NYSDEC Spills Database indicates that spills of environmental concern have occurred in the recent past in the vicinity of the North Aud Block. The filled in canals, slips, excavations, foundations, and subsurface utilities provide a conduit for contamination migration, especially for materials buried and/or disposed of years ago.

3 Discussion and Recommendations

The purpose of this review is to supplement previous environmental reviews and investigations previously completed for the project site for previous site investigation and/or construction and/or demolition activities for identifying and determining potential environmental conditions of concern in the project area. These environmental conditions could then be further evaluated and/or considered during the infrastructure design work or be noted for the construction phase(s) of forthcoming project (s).

Previous environmental reviews and investigations that were completed prior to the NYSDEC CP-51 /Soil Cleanup Guidance, which addresses soil contamination cleanup requirements, and the 6 NYCRR Part 360 Solid Waste Management, which addresses soil fill material requirements, may have resulted in soil remaining onsite above current cleanup levels.

The more recent updated 6 NYCRR Part 360 regulations, were not considered in the previous environmental reviews and investigations, and may have resulted in soil fill material that should have required either specific onsite handling, with respect to groundwater levels, cover depth, etc., or required offsite disposal. These newer Part 360 regulations address reuse of soil fill material onsite which would not have been utilized during the previous excavations, demolitions and/or site regrading.

Further subsurface investigations and soil sampling and analysis could be completed prior to actual site excavation for a determination of potential soil contamination and a determination of the extent of the environmental concern, as well as potential associated handling and disposal cost. However, based upon the many years of site activities, including excavations, demolition, and soil movement and placement sampling and analysis may or may not be conclusive as to contamination and/or extent.

More importantly, based upon the requirements for use and reuse of soil fill material, it is more likely that soil encountered at the site will be considered fill material and require onsite evaluation as it is excavated. Soil fill material can remain and/or be reused onsite if meeting specific requirements, but based upon the forthcoming development onsite space meeting the reuse requirements may not be available.

Therefore, during construction excavation activities it would be recommended to visually and olfactory monitor excavated soil / fill material for evidence of soil contamination and/or fill types/uses for an initial determination of sampling and analysis requirements, and ultimately disposal.


INQUIRY #: [redacted]
YEAR: 1927
= 500'
N
EDR


INQUIRY #: [redacted]
YEAR: 1938
= 500'
N
EDR


INQUIRY #: [redacted]
YEAR: 1951
= 500'
N
EDR


INQUIRY #: [redacted]
YEAR: 1959
= 500'
N
EDR


INQUIRY #: [redacted]
YEAR: 1962
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EDR


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N
EDR


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= 500'
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EDR


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EDR

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YEAR: 2006

= 500'

N

EDR


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YEAR: 2009
= 500'
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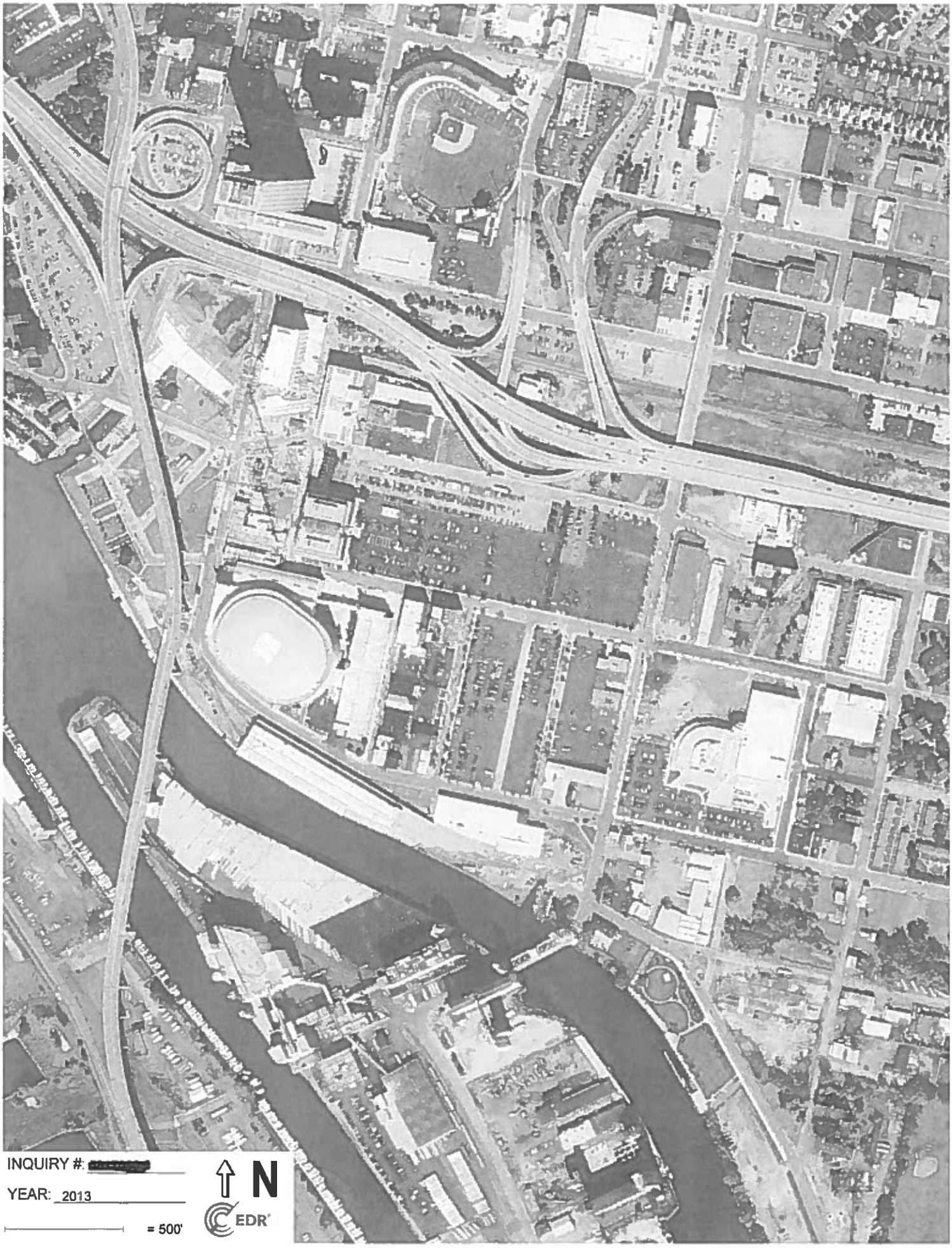
EDR



INQUIRY #: [redacted]

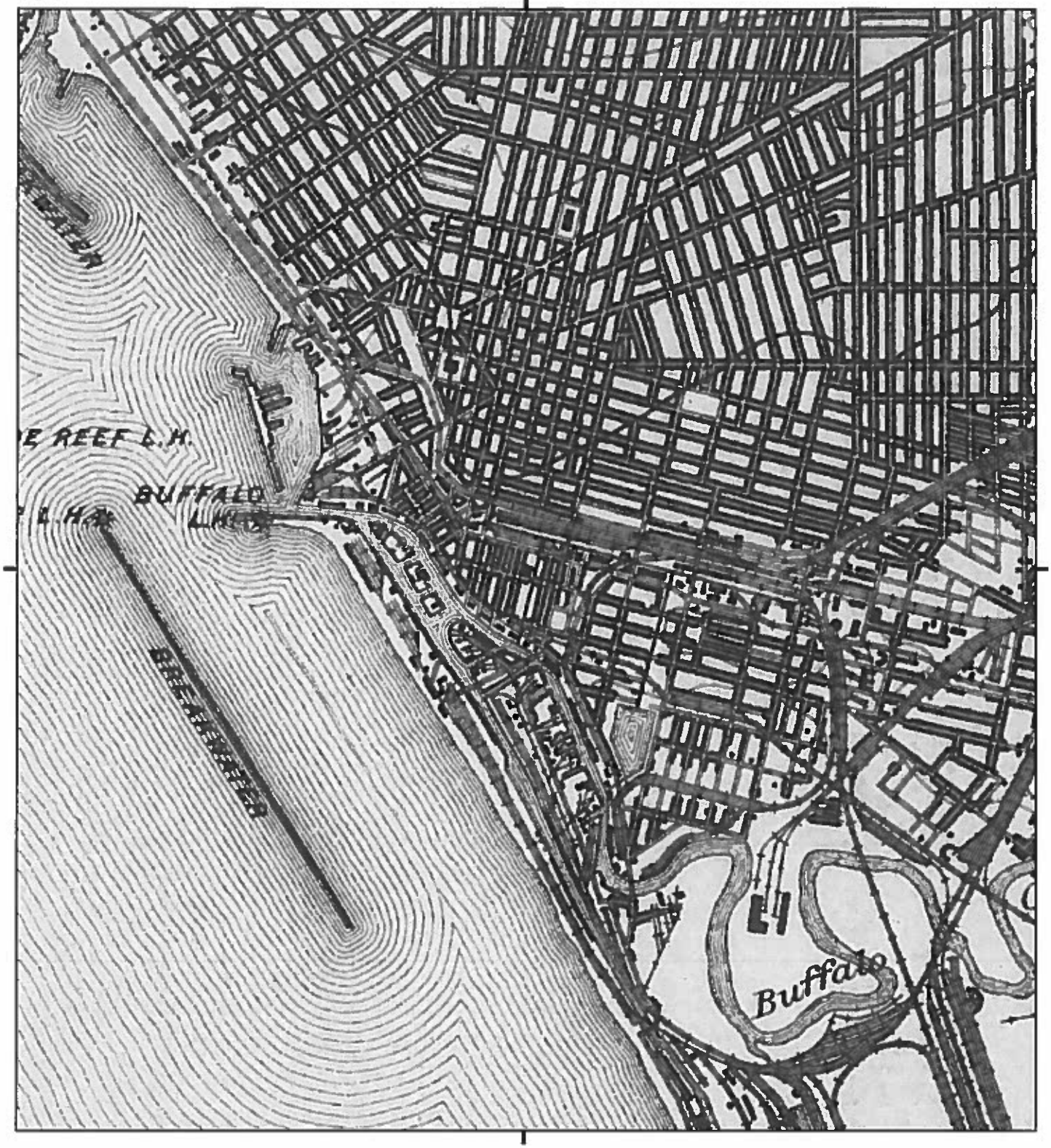
YEAR: 2013

= 500'


INQUIRY #: [redacted]
YEAR: 2017
= 500'
N
EDR

Historical Topo Map

1894



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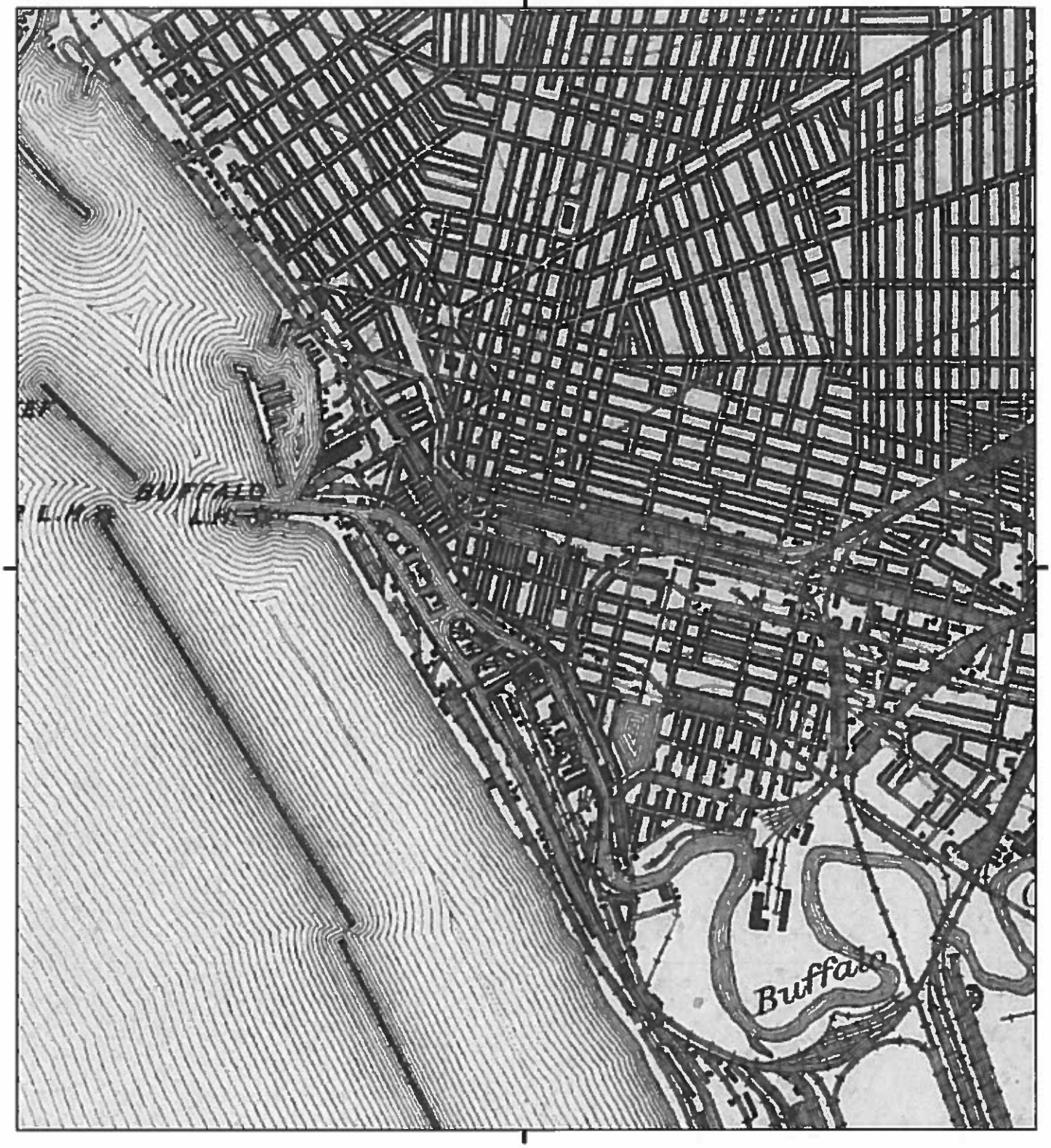
NW N NE
W E
SW S SE

TP, Buffalo, 1894, 15-minute

N

Historical Topo Map

1901



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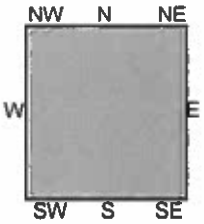
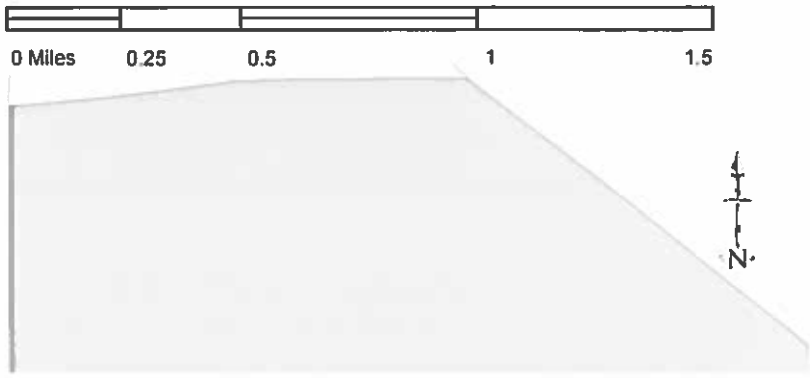


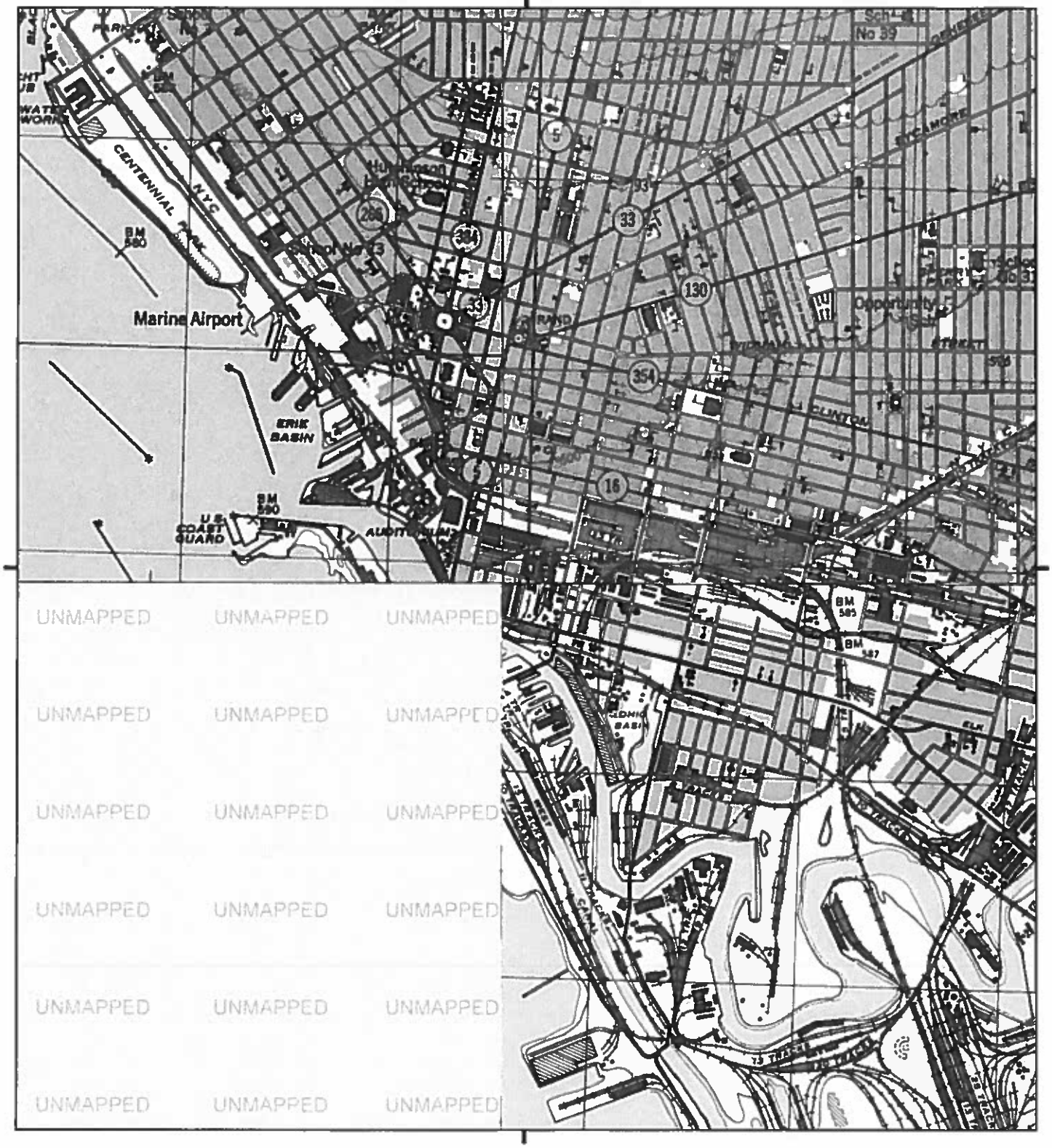
TP, Buffalo, 1901, 15-minute



EDR

Historical Topo Map

1946, 1948, 1949



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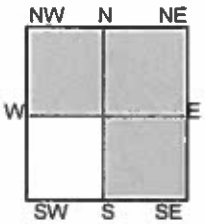
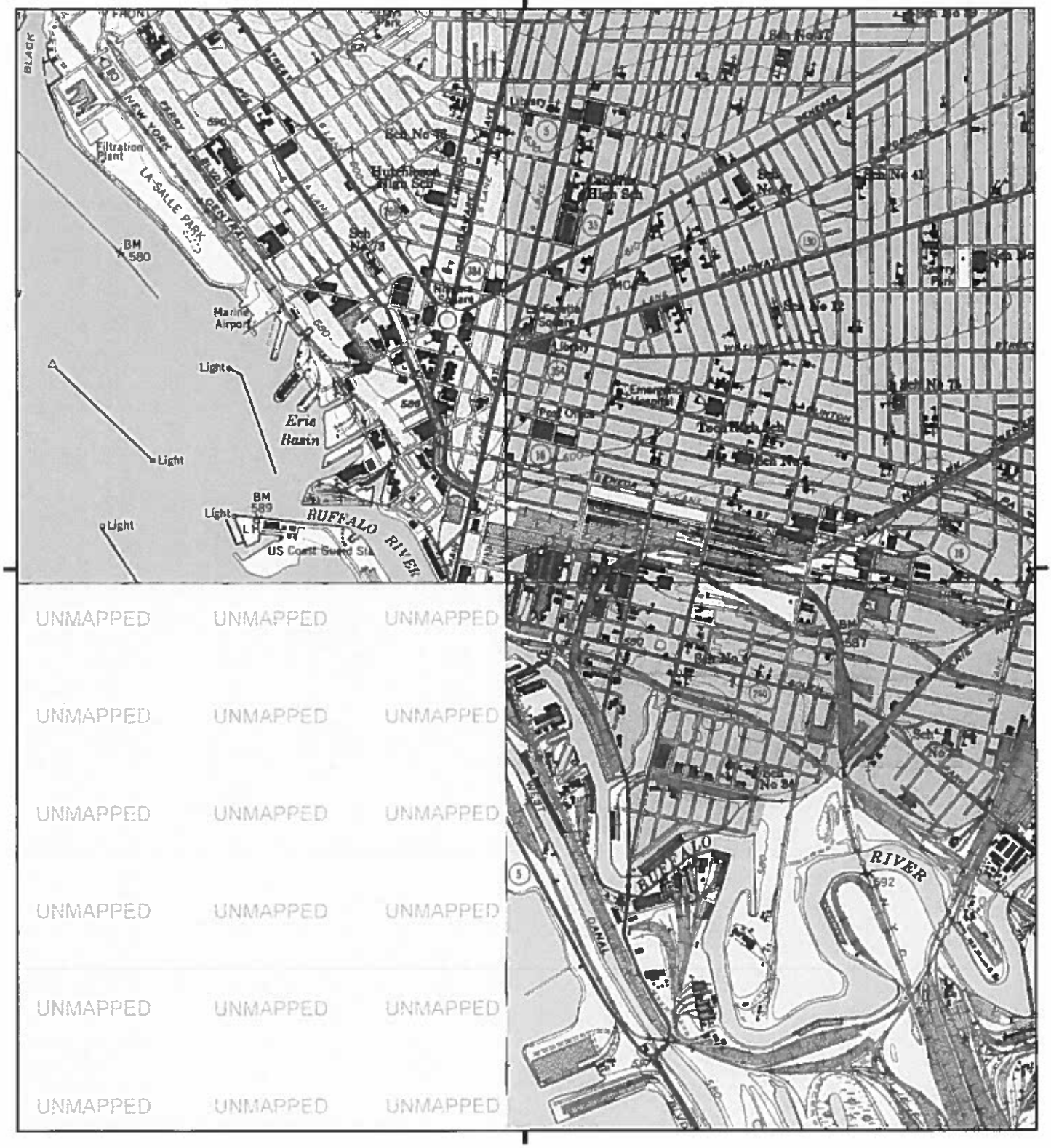
0 Miles 0.25 0.5 1 1.5



TP, BUFFALO NE, 1946, 7.5-minute
SE, BUFFALO SE, 1948, 7.5-minute
NW, BUFFALO NW, 1949, 7.5-minute

Historical Topo Map

1950



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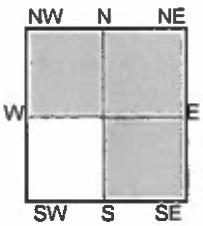


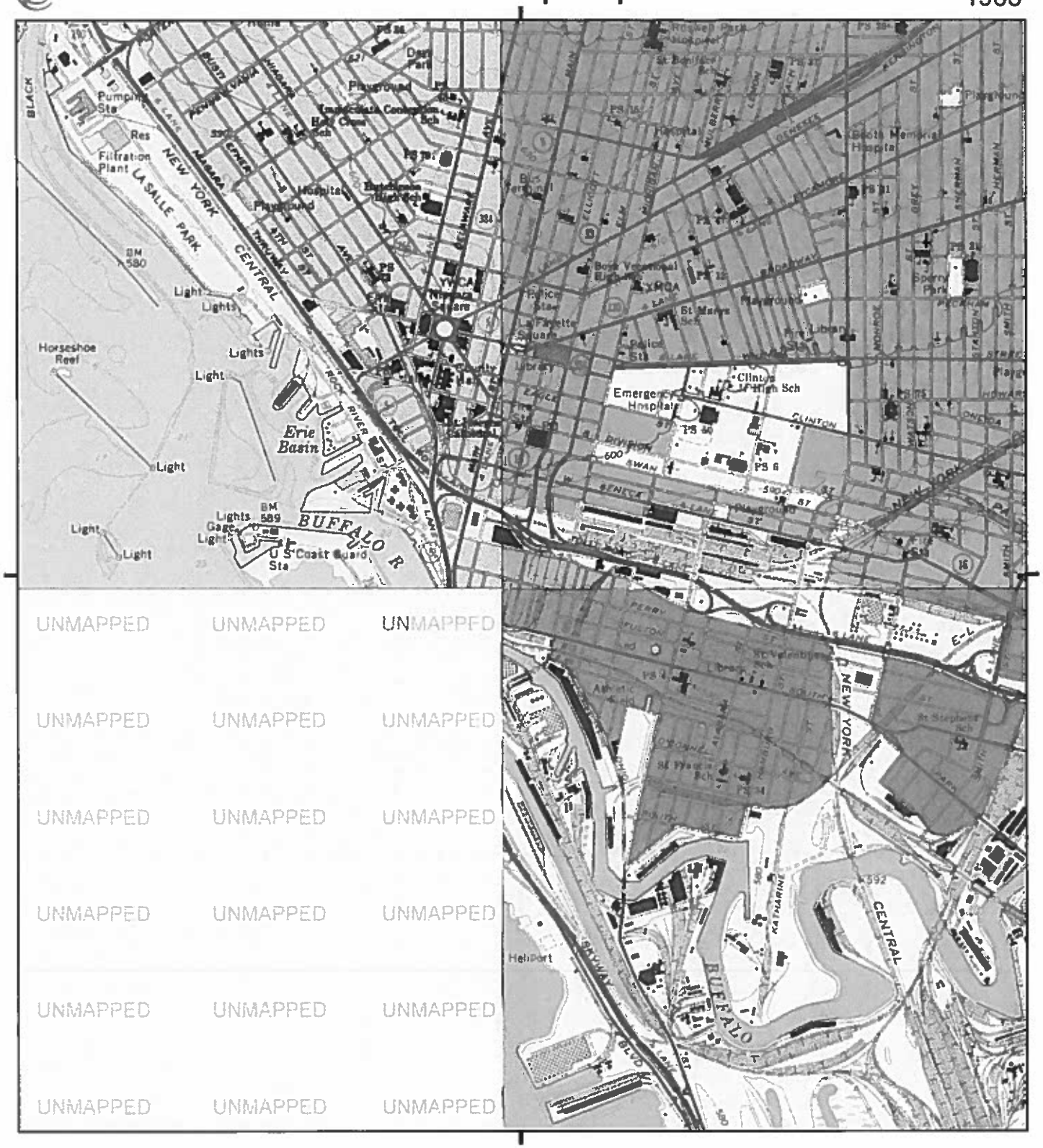
TP, Buffalo NE, 1950, 7.5-minute
SE, Buffalo SE, 1950, 7.5-minute
NW, Buffalo NW, 1950, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Historical Topo Map

1965



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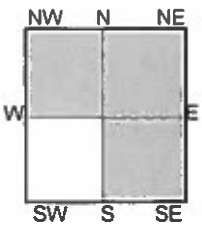

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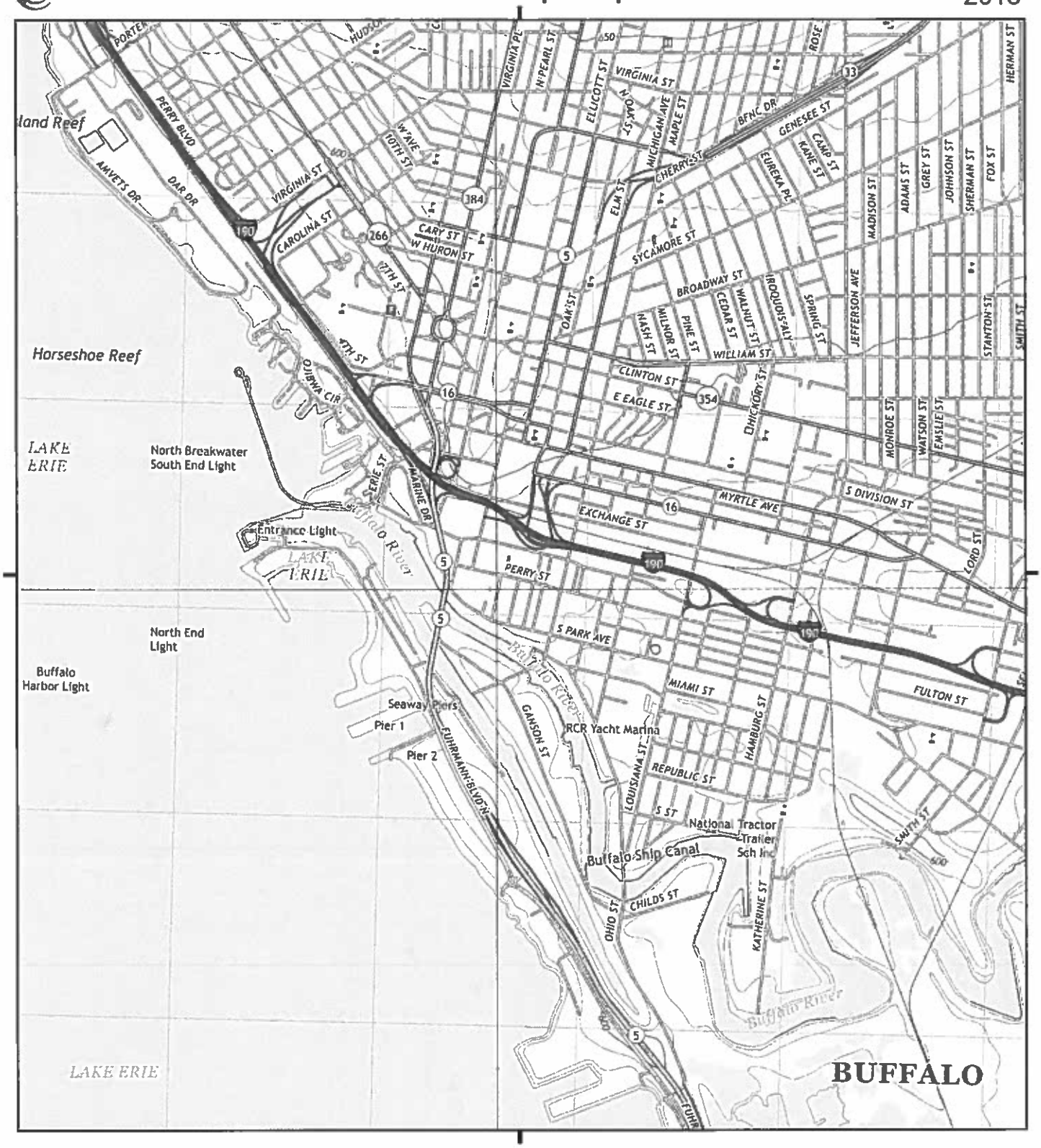
NW, Buffalo NW, 1965, 7.5-minute

EDR

Historical Topo Map

2013



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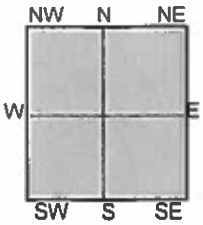


TP, Buffalo NE, 2013, 7.5-minute
SE, Buffalo SE, 2013, 7.5-minute
SW, Buffalo SE OE W, 2013, 7.5-minute
NW, Buffalo NW, 2013, 7.5-minute

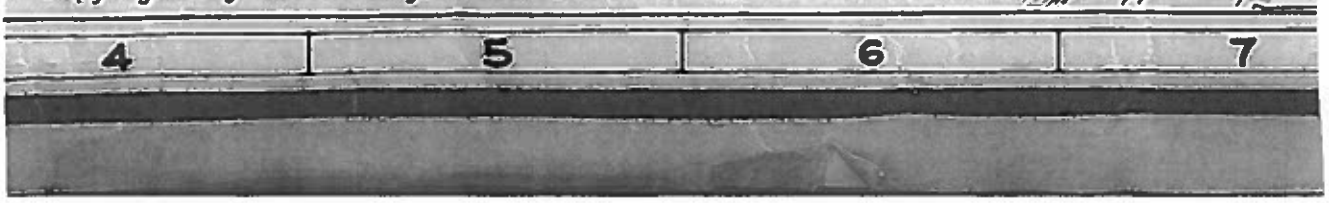
N

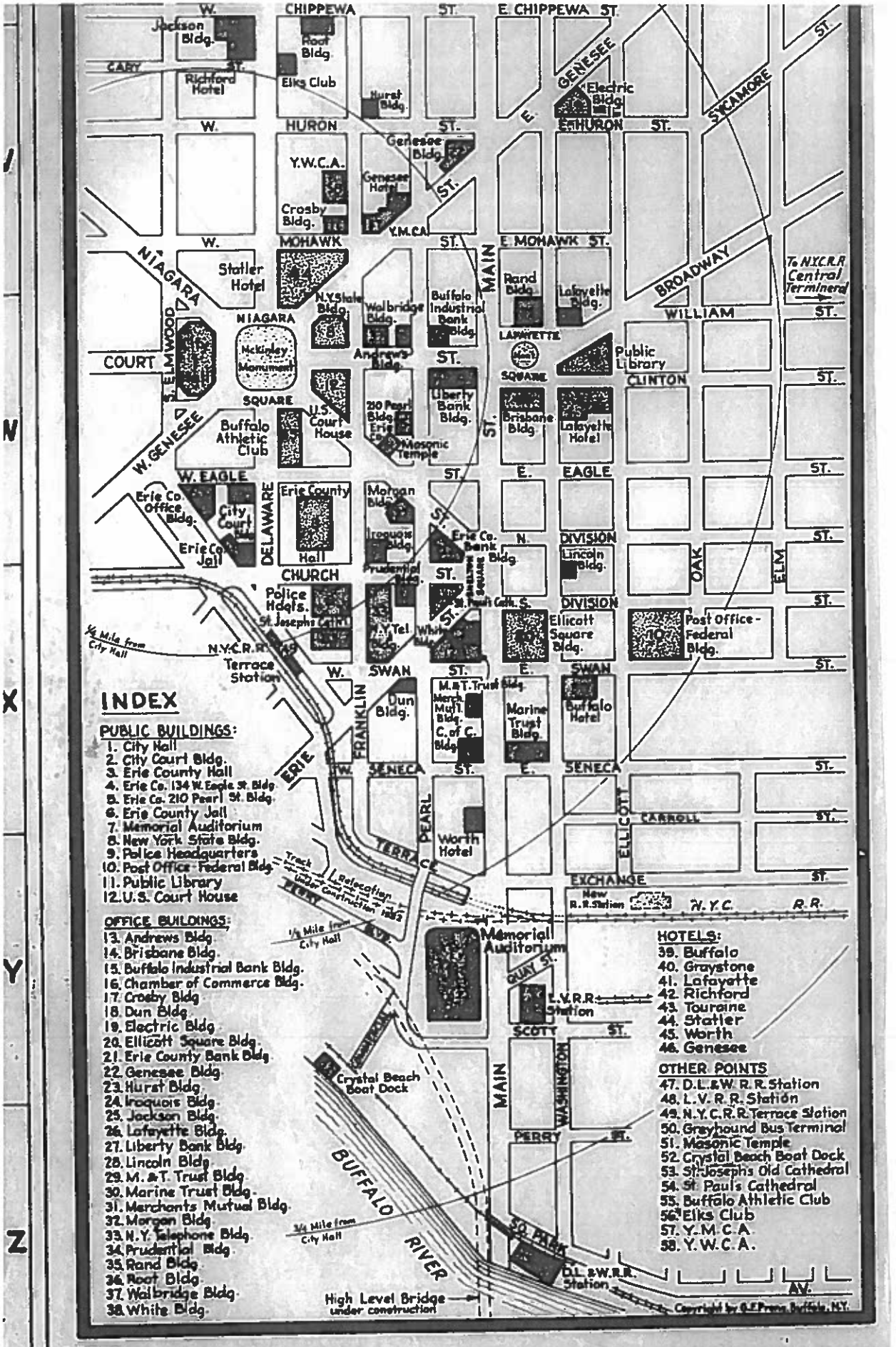
INDUSTRIAL MAP OF BUFFALO AND THE NIAGARA FRONTIER

Showing Manufacturing Concerns Employing Approximately 25 or more Persons

LEGEND

- 25 - 40 Employees
- 41 - 100
- 101 - 200
- 201 - 500
- 501 - 1000
- 1001 - 2000
- 2001 - 5000
- OVER 5000

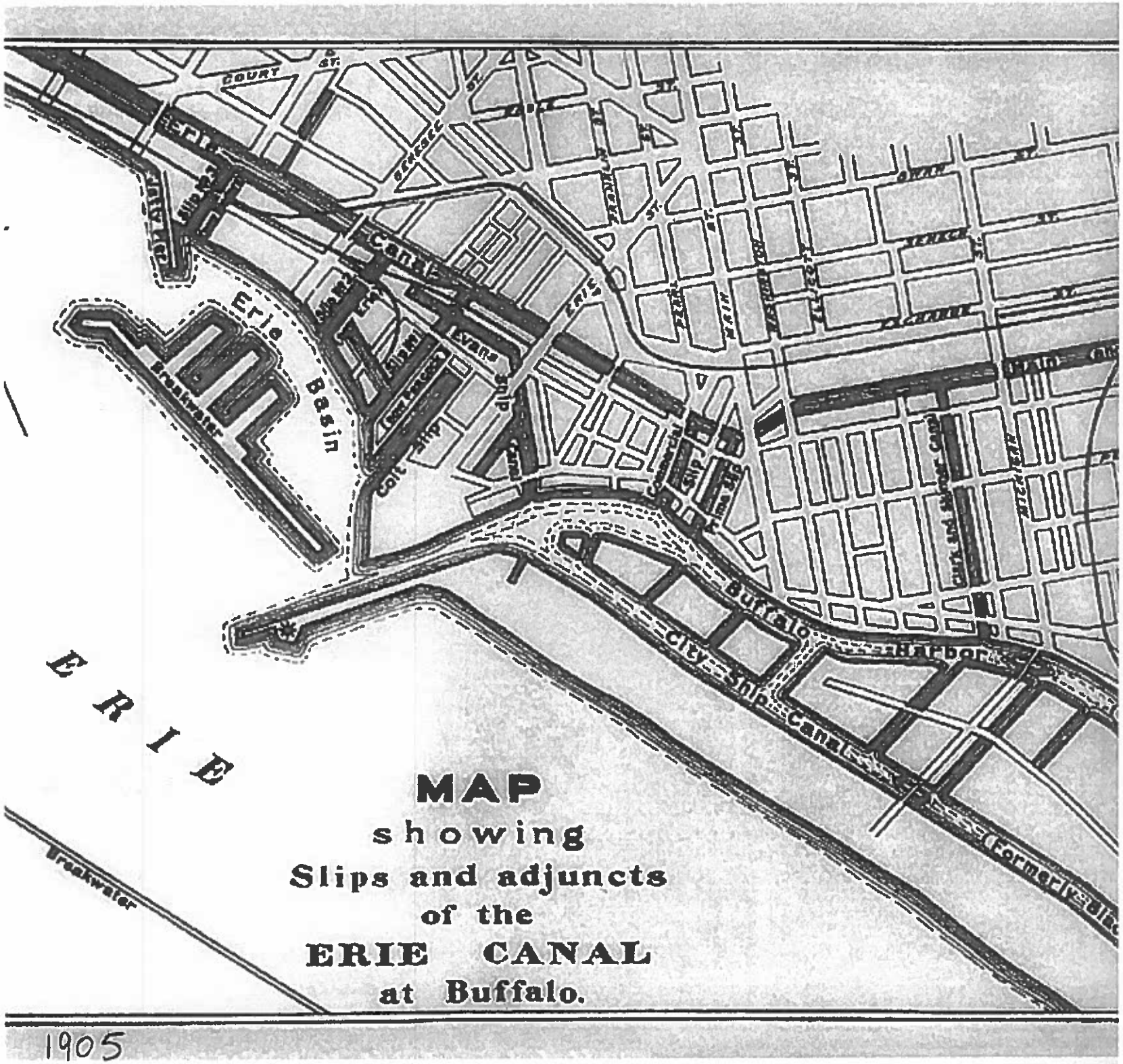



W. CHIPPEWA ST.
E. CHIPPEWA ST.
Jackson Bldg.
Root Bldg.
Richford Hotel
Elks Club
Hurst Bldg.
Electric Bldg.
GENESEE
SYCAMORE
W. HURON ST.
E. HURON ST.
Genesee Bldg.
Y.W.C.A.
Genesee Hotel
Crosby Bldg.
Y.M.C.A.
W. MOHAWK ST.
E. MOHAWK ST.
NIAGARA
Statler Hotel
N.Y. State Bldg.
Walbridge Bldg.
Buffalo Industrial Bank Bldg.
MAIN
Rand Bldg.
Lafayette Bldg.
BROADWAY
To N.Y.C.R.R. Central Terminal
WILLIAM ST.
NIAGARA SQUARE
McKinley Monument
Andrews Bldg.
LAFAYETTE SQUARE
Public Library
CLINTON ST.
COURT
S. ELMWOOD
Liberty Bank Bldg.
Brisbane Bldg.
Lafayette Hotel
U.S. Court House
210 Pearl Bldg.
Erie Co.
Masonic Temple
Buffalo Athletic Club
W. GENESEE
W. EAGLE ST.
E. EAGLE ST.
Erie Co. Office Bldg.
City Court Bldg.
Erie Co. Jail
DELAWARE
Erie County Hall
Morgan Bldg.
Iroquois Bldg.
Erie Co. Bank Bldg.
N. DIVISION ST.
Lincoln Bldg.
OAK
ELM
CHURCH ST.
Police Hdqts.
St. Joseph's Cath.
Prudential Bldg.
St. Paul's Cath. S.
DIVISION ST.
Ellicott Square Bldg.
Post Office - Federal Bldg.
1/4 Mile from City Hall
N.Y.C.R.R. Terrace Station
W. SWAN ST.
E. SWAN ST.
FRANKLIN
Dun Bldg.
M.&T. Trust Bldg.
Merch. Mut'l. Bldg.
C. of C. Bldg.
Marine Trust Bldg.
Buffalo Hotel
ERIE
W. SENECA ST.
E. SENECA ST.
PEARL
Worth Hotel
ELLICOTT
CARROLL ST.
TERRACE
Track Location under construction 1952
EXCHANGE ST.
New R.R. Station
N.Y.C. R.R.
PERRY ST.
1/2 Mile from City Hall
Memorial Auditorium
QUAY ST.
L.V.R.R. Station
SCOTT ST.
Crystal Beach Boat Dock
MAIN
WASHINGTON
PERRY ST.
BUFFALO RIVER
3/4 Mile from City Hall
SO. PARK AV.
D.L.&W.R.R. Station
High Level Bridge under construction
Copyright by G.E. Pease, Buffalo, N.Y.
INDEX
PUBLIC BUILDINGS:
1. City Hall
2. City Court Bldg.
3. Erie County Hall
4. Erie Co. 134 W. Eagle St. Bldg.
5. Erie Co. 210 Pearl St. Bldg.
6. Erie County Jail
7. Memorial Auditorium
8. New York State Bldg.
9. Police Headquarters
10. Post Office-Federal Bldg.
11. Public Library
12. U.S. Court House
OFFICE BUILDINGS:
13. Andrews Bldg.
14. Brisbane Bldg.
15. Buffalo Industrial Bank Bldg.
16. Chamber of Commerce Bldg.
17. Crosby Bldg.
18. Dun Bldg.
19. Electric Bldg.
20. Ellicott Square Bldg.
21. Erie County Bank Bldg.
22. Genesee Bldg.
23. Hurst Bldg.
24. Iroquois Bldg.
25. Jackson Bldg.
26. Lafayette Bldg.
27. Liberty Bank Bldg.
28. Lincoln Bldg.
29. M. & T. Trust Bldg.
30. Marine Trust Bldg.
31. Merchants Mutual Bldg.
32. Morgan Bldg.
33. N.Y. Telephone Bldg.
34. Prudential Bldg.
35. Rand Bldg.
36. Root Bldg.
37. Walbridge Bldg.
38. White Bldg.
HOTELS:
39. Buffalo
40. Graystone
41. Lafayette
42. Richford
43. Touraine
44. Statler
45. Worth
46. Genesee
OTHER POINTS
47. D.L.&W. R.R. Station
48. L.V. R.R. Station
49. N.Y.C.R.R. Terrace Station
50. Greyhound Bus Terminal
51. Masonic Temple
52. Crystal Beach Boat Dock
53. St. Joseph's Old Cathedral
54. St. Paul's Cathedral
55. Buffalo Athletic Club
56. Elks Club
57. Y.M.C.A.
58. Y.W.C.A.

4-1952

1 2 3


OUTER
LAKE
RIVER
BUFFALO
General Mills, Inc.
Eastern Div. 18
171-Ford Motor Co.
Buffalo Assembly Plant
Archer-Daniels-Midland Co.
Kelly Island
Lime & Transp. Co.
Natl. Milling C
Pillsbury Mills, Inc.
Best Foods, Inc.
Barcalo Mfg. Co.
Co-op Grain Exchange
Spencer Kellogg & Sons, Inc.
Holmes Machy. Co.
Am. Shipbldg. Co.
Buffalo Evening News
Buffalo Lithographing Co.
Buffalo Color Press, Inc.
Baker Jones Hausauer Inc.
Cresbury Clothes, Inc.
Vita Vim Mills
Master Metal Products, Inc.
Howard Iron Works
Fairmont Foods Co.
Deck Bros. Inc.
Bison Waste & Wiper Co.
Lake Erie Foundry Co.
Heintz & Weber Co.
Standard Milling Co.
Niagara Apparel Co.
McSeeman Co.
Arner Co.
Bflo. Envelope Co.
W.E. Mfg. Co.
Royal Mens Sportwear, Inc.
Alling & Cory
Wilson Chem. Feeders
Emergency Hospital
Farmers Feed Co.
Happiness Candy Sto
Beck Brewing Co.
A. & P. Baker
F.N. Burt Co.
Iroquois Beverage
Flo-Jewelry Case Co.
Crosby Co.
Gen. Ice Cream Co.
Rich Ice Cream Co.
Direct La
Wagner Jewelry
Kohler Electric
Bflo. Power Tool Co.
Superior Engraving
Falling Press
Columbus Hospital
Cathedral
Herr Mfg. Co.
Wilson Packing Co.
Crystal Ice Co.
Schenck
Cooper
Hasse
Buff
Ford
Chas Dresch
Pleichfeld & Burlo
Sp
Henrich Lum
Mochwurth Bros. Inc.
John E. Smith Sons Co.
Hall Lead Co.
E.M. Hager & Sons Co.
Bflo. Tents & Awnings Mfg. Co.
Meyer Equip. Co.
Bflo. Wire Works
Montgomery-Mallue, Inc.
Diamond Saw Work
City Hall
Erie Co. Hall
Erie Basin
New York State Barge Canal Terminal
U.S. Coast Guard Station
Marine Airport
Municipal Piers
Connecting Terminal Elevator
Frontier Elevator
Dakota Elevator
Pillsbury Elevator
Kellogg Elevator
Marine Elevator "A"
Concrete Central Elevator
Lake & Rail Elevator
Dellwood Elevator
Superior Elevator
Mich. Limestone & Chem. Co.
Master Builders Co.
Concrete Co.
Grain & Milling Co.
Int'l Commerce Co.
Pratt Food
Allied M
Natl. A
Allie & Dy
Hanson Portland Cement Co.
Pierce & Stevens, Inc.
Rigidized Metals Corp.
Yard
2 Miles
U.S. Gov't Breakwater
Mile
MARYLAND
VIRGINIA
CAROLINA
GEORGIA
COURT
CHURCH
W. GENESEE
EAGLE
ERIE
PERRY
MICHIGAN
FULTON
BROADWAY
WILLIAM
CLINTON
SENECA
SWAN
EXCHANGE
FURHMANN
BLVD.
SOUTH
ST. CLAIR
ERIE
KATHARINE
HAMBURG
ALABAMA
REPUBLIC
OHIO
CHICAGO
GANSON ST.
BELT
D.L.&W.
N.Y.C.
VAN RENSSELAER
CHIPPEWA
HURON
MOHAWK
ELLICOTT
MAIN
WASHINGTON
PEARL
CEDAR
PRATT
SPRING
N. DIVISION
S. DIVISION
Dark



"Map showing Slips and adjuncts of the Erie Canal at Buffalo" -- from: History of the Canal System of the State of New York ... / by Noble E. Whitford (Albany : Brandow Publishing Co., 1906) -- vol. 1, opposite p. 588.

CP-51 / Soil Cleanup Guidance

New York State Department of Environmental Conservation

DEC Policy

Issuing Authority: Alexander B. Grannis, Commissioner	
Date Issued: October 21, 2010	**Latest Date Revised:**

I. Summary

This policy provides the framework and procedures for the selection of soil cleanup levels appropriate for each of the remedial programs in the New York State Department of Environmental Conservation (DEC) Division of Environmental Remediation (DER). This policy applies to the Inactive Hazardous Waste Disposal Site Remedial Program, known as the State Superfund Program (SSF); Brownfield Cleanup Program (BCP); Voluntary Cleanup Program (VCP); Environmental Restoration Program (ERP); Spill Response Program - Navigation Law (NL) section 176 (SRP); and the Resource Conservation and Recovery Act (RCRA) Corrective Action Program. It replaces *Technical and Administrative Guidance Memorandum (TAGM) 4046: Determination of Soil Cleanup Objectives and Cleanup Levels* (January 24, 1994); the *Petroleum Site Inactivation and Closure Memorandum* (February 23, 1998); and Sections III and IV of *Spill Technology and Remediation Series (STARS) #1* (August 1992).

This document is used in conjunction with the applicable statutes, regulations and guidance. Site-specific soil cleanup levels, determined in accordance with this guidance, are only applied after:

- the site, or area of concern, is fully investigated to determine the nature and extent of contamination;
- all sources of contamination are addressed consistent with the hierarchy provided in 6 NYCRR 375-1.8(c) or consistent with the RCRA Corrective Action Program (as appropriate);
- groundwater, if contaminated, has been evaluated for appropriate remedial actions consistent with 6 NYCRR 375-1.8(d) or consistent with the RCRA Corrective Action Program (as appropriate); and
- impacts on adjacent residential properties, surface water, aquatic ecological resources are evaluated, as well as indoor air, soil vapor, vapor intrusion and other appropriate media.

II. Policy

It is DEC's policy, consistent with applicable statutes and regulations, that all remedies will be protective of public health and the environment. DEC's preference is that remedial programs, including the selection of soil cleanup levels, be designed such that the performance standard results in the implementation of a permanent remedy resulting in no future land use restrictions. However, some of

DEC's remedial programs are predicated on future site use. Further, it is not always feasible to return to a condition where no restrictions are required.

The procedures set forth herein are intended for the use and guidance of both DEC and remedial parties to provide a uniform and consistent process for the determination of soil cleanup levels. This guidance is not intended to create any substantive or procedural rights, enforceable by any party in administrative or judicial litigation with DEC. DEC reserves the right to act at variance with these procedures to address site-specific circumstances and to change the procedures in this guidance at any time.

Please note that this guidance focuses only on soil cleanup levels. All remedies must be fully protective of public health and the environment and must prevent further off-site migration to the extent feasible, with special emphasis on preventing or minimizing migration onto adjacent residential properties. A remedial party is required to evaluate and investigate, if necessary, all environmental media including soil, groundwater, surface water, sediments, soil vapor, ambient air, and biota. [See 6 NYCRR 375-1.8(a)(6) or RCRA Corrective Action Program (as appropriate)]. This investigation will determine if any of the referenced media are, or may be, impacted by site contamination. Applicable guidance should be consulted for media other than soil.

Nothing contained in this guidance, in itself, forms the basis for changes to previously selected remedies. However, a change in the site remedy may be considered consistent with *DER-2: Making Changes to Selected Remedies* (April 1, 2008). [See Section VI, Related References.] To the extent that a change to a selected remedy at a site in one of DER's remedial programs is necessary as provided in DER-2, as applicable, the Soil Cleanup Objectives (SCOs) may be considered in the evaluation of appropriate changes to the selected remedy. For sites in other programs, applicable regulations and guidance must be used.

III. Purpose and Background

DEC has a number of different remedial programs that were developed over time based on separate and distinct authorities. These programs use different procedures to determine the extent of soil cleanup necessary to satisfy the remedial program goals. The purpose of this document is to set forth how soil cleanup levels are selected for the different programs.

Legislation establishing New York State's Brownfield Cleanup Program (Article 27, Title 14 of the Environmental Conservation Law [ECL]) required DEC, in consultation with the New York State Department of Health (NYSDOH), to develop an approach for the remediation of contamination at brownfield sites. The resulting regulation includes seven sets of SCOs. Four sets provide for the protection of public health for different land uses (residential, restricted residential, commercial, and industrial); two sets provide for the protection of other resources (groundwater and ecological resources); and one set includes SCOs for protection of public health and the environment for all uses (unrestricted use).

With the promulgation of the SCOs, it is necessary to discuss how the SCOs, and soil cleanup levels generally, are arrived at for a specific site. Some key definitions in understanding how cleanup levels for soil are arrived at follow.

Feasible, which means suitable to site conditions, capable of being successfully carried out with available technology, implementable and cost effective [see 6 NYCRR 375-1.2(s)].

Presumptive remedy, which means a technology or technique where experience has shown the remedy to be a proven solution for specific types of sites and/or contaminant classes [See *DER-15: Presumptive/Proven Remedial Technologies* February 27, 2007. Refer to Section VI, Related References.]

Soil cleanup level, which means the concentration of a given contaminant for a specific site that must be achieved under a remedial program for soil. Depending on the regulatory program, a soil cleanup level may be based on the regulation [6 NYCRR 375-6.8(a) or (b)], modified from the regulatory value based on site-specific differences, or based on other information, including background levels or feasibility. Soil cleanup levels may include:

- SCOs promulgated at 6 NYCRR 375-6;
- Supplemental Soil Cleanup Objectives (SSCOs);
- a "totals" approach for a family of contaminants known as Polycyclic Aromatic Hydrocarbons (PAHs);
- Presumptive remedy for Polychlorinated Biphenyls (PCBs); and
- Nuisance Condition.

Soil Cleanup Objective (SCO), which means the chemical concentrations for soil cleanup of individual chemicals contained in 6 NYCRR 375-6.8(a) or (b). The SCOs were developed using the process outlined in the Technical Support Document (TSD). The SCOs and the SSCOs defined below are applicable statewide and do not account for many site-specific considerations which could potentially result in higher levels. Soil concentrations that are higher than the SCOs and SSCOs are not necessarily a health or environmental concern. When an SCO (or SSCO) is exceeded, the degree of public health or environmental concern depends on several factors, including the magnitude of the exceedance, the accuracy of the exposure estimates, other sources of exposure to the contaminant, and the strength and quality of the available toxicological information on the contaminant.

Supplemental Soil Cleanup Objective (SSCO), which means a) an existing soil cleanup level for a contaminant which had been included in former TAGM 4046 and was not included in 6 NYCRR 375-6; b) has been developed using the same process used for development of the SCOs; and c) new cleanup levels for soil developed by the remedial party following the approach detailed in Appendix E of the TSD. The TSD provides information relative to the development of cleanup objectives for soil that are not set forth in 6 NYCRR 375-6. Cleanup objectives that have been established at the direction of DEC or the election of remedial parties are included in Table 1.

Technical Support Document (TSD), which refers to the document dated December 2006 detailing the development of the SCOs that were promulgated in 6 NYCRR 375-6. It provides the technical background and provides a detailed discussion of the considerations for development of the SCOs for the different land uses and exposure pathways. The TSD is available on DEC's website [see Section VI, Related References].

The purpose of this guidance is NOT to focus on media other than soil. Accordingly, the remedial program may require remedial activities to address media other than soil (e.g., groundwater, surface

water, sediment, and vapor). Applicable guidance should be consulted for media other than soil. This guidance is to be used in conjunction with the applicable statutes, regulations and guidance. Site-specific soil cleanup levels, determined in accordance with this guidance, are only applied after:

- the site, or area of concern, is fully investigated to determine the nature and extent of contamination;
- all sources of contamination are addressed consistent with the hierarchy provided in 6 NYCRR 375-1.8(c) or consistent with the RCRA Corrective Action Program (as appropriate);
- groundwater, if contaminated, has been evaluated for appropriate remedial actions consistent with 6 NYCRR 375-1.8(d) or consistent with the RCRA Corrective Action Program (as appropriate); and
- an evaluation of impacts on adjacent residential properties, surface water, aquatic ecological resources, as well as indoor air, soil vapor, vapor intrusion and other appropriate media.

IV. Responsibility

The responsibility for maintaining and updating this policy lies with DER. DEC staff are responsible for implementing this policy, with input (as applicable) from NYSDOH.

V. Procedures

A. General Approaches to the Selection of Soil Cleanup Levels

The determination of soil cleanup levels for a site is dependent on:

1. The regulatory program pursuant to which the site is being addressed;
2. Whether the groundwater beneath or down gradient of the site is, or may become contaminated with site-related contaminants;
3. Whether ecological resources constitute an important component of the environment at or adjacent to a site, and which are, or may be, impacted by site-related contaminants; and
4. Other impacted environmental media such as surface water, sediment, and soil vapor.

After fully evaluating the nature and extent of soil contamination associated with a site, the soil cleanup levels will be based on one, or a combination of, the following four approaches.

Approach 1: **Utilize the Unrestricted Use Soil Cleanup Objectives** [see 6 NYCRR Table 375-6.8(a)]. Under this approach, the soil cleanup levels will be established consistent with the SCOs set forth in 6 NYCRR Table 375-6.8(a). For contaminants of concern which are not included in the rule, DEC may direct development of a soil cleanup level which is protective of public health and the environment without restrictions following the procedure outlined in Appendix E of the TSD. Under this approach, the unrestricted SCOs are applied throughout the soil matrix to the top of bedrock (including the saturated zone).

Approach 2: **Utilize the Restricted Use Soil Cleanup Objectives** [see 6 NYCRR Table 375-6.8(b)]. Under this approach, soil cleanup levels will be established consistent with the SCOs set forth in 6 NYCRR Table 375-6.8(b) selecting the lowest SCO in the categories described in A

through C below. Generally, after source removal, the soil cleanup levels do not need to be achieved to more than 15 feet below ground surface or to the top of bedrock, whichever is shallower.

A. Select the applicable land use category for the protection of public health (residential, restricted residential, commercial or industrial);

B. Determine if the SCOs for the protection of groundwater are applicable (see Section V.D); and

C. Determine if the SCOs for the protection of ecological resources are applicable (see Section V.C).

Approach 3: **Limited Site-Specific Modifications to Soil Cleanup Objectives.** This approach allows for consideration of site-specific information to modify the SCOs promulgated in 6 NYCRR Tables 375-6.8 (a) and (b) following the approach detailed in Appendix E of the TSD. The equations and basic methodology specified for calculating the 6 NYCRR 375-6.8 (a) and (b) values may not be modified under this approach. However, in instances where site-specific parameters were used in the calculation of the SCOs, site data different from the assumptions used to calculate the SCOs may be used to modify the soil cleanup levels for a specific site. These instances are very limited and occur only in certain pathways that are listed below.

- Protection of groundwater pathway
- Particulate inhalation pathway
- Volatile inhalation pathway
- Protection of ecological resources pathway

It should be noted that even if site-specific data modifies these pathways, it may not result in modifying the SCOs because the lowest value from all applicable pathways is used to determine each SCO. The inhalation pathway is very seldom the controlling pathway in the determination of the protection of public health. The specific parameters that can be modified are identified in Appendix E of the TSD (e.g., inhalation dispersion terms, fraction of organic carbon in soil, etc.).

The remedial party should consider the cost of collecting the data necessary to support a request to modify the SCOs with the potential for deriving a higher SCO that provides an appropriate level of protection. The remedial party may be required to submit additional data to support the use of modified SCOs. Once DEC approves one or more modified SCOs, they are applied in the manner described under Approach 2.

Approach 4: **Site-Specific Soil Cleanup Objectives.** Under this approach, the remedial party may propose site-specific cleanup levels or approaches for soil which are protective of public health and the environment based on other information. This approach sets forth a flexible framework to develop soil cleanup levels by allowing the remedial party to conduct a more detailed evaluation of site information in an effort to calculate protective soil cleanup levels or approaches unique to a site. Under this approach, the remedial party may propose a remedy that does not include specific soil cleanup levels (e.g., excavate the top 6 feet in an area extending 75 feet in all directions from boring B12); modify the input parameters used in the SCO calculations; use site data to improve or confirm predictions of exposures to receptors to contaminants of concern; analyze site-specific risks using

risk assessments; use toxicological information available from alternate sources; or consider site background and historic fill. Data supporting these site-specific adjustments or use of alternate methodologies must also be provided to DEC for review and approval to ensure that the resulting soil cleanup levels are protective.

The Approach 4 framework leaves DEC with discretion to determine whether a different approach is appropriate for the site and, if a different approach is to be used, the proper method of implementation. The remedial party should consider the cost of collecting the data necessary to develop site-specific soil cleanup levels (or approaches) with the potential for deriving a soil cleanup level which is higher than a particular SCO and which provides an appropriate level of protection. The remedial party may also be required to submit additional data to support the use of methodologies in the calculation of site-specific soil cleanup levels or to support the proposed approach.

B. Application of Soil Cleanup Levels for the Specific Remedial Programs: Soil cleanup levels are determined on a site-specific basis depending on the program under which the site is being remediated. In some cases (e.g., BCP Track 1 or Track 2), the soil cleanup levels are the SCOs taken directly from 6 NYCRR 375-6. In other cases, soil cleanup levels may be derived from the Part 375 SCOs but modified based on other information. In yet other cases, the soil cleanup levels may have no relationship or connection to the SCOs, but rather be developed in accordance with DEC-approved methodologies or approaches.

1. <u>Inactive Hazardous Waste Disposal Site Remedial Program (State Superfund Program)</u>: The goal of the remedial program for a specific site is to restore that site to pre-disposal conditions, to the extent feasible. The unrestricted use SCOs are considered to be representative of pre-disposal conditions unless an impact to ecological resources has been identified (see 6 NYCRR 375-2.8(b)(2)). However, it must be recognized that achievement of this goal may not be feasible in every case. At a minimum, all remedies must be protective of public health and the environment. The following procedure is used to determine the most feasible remedy.

(a) The remedial party shall evaluate, and if feasible, implement a cleanup utilizing Approach 1 (application of unrestricted SCOs).

(b) Where DEC determines that achieving unrestricted SCOs is not feasible as documented in a feasibility study, the remedial party may evaluate alternatives to remediate the site to the greatest extent feasible (see *DER-10: Technical Guidance for Site Investigation and Remediation*, Chapter 4.3). [See Section VI, Related References.] In this event, the remedial party may propose soil cleanup levels in accordance with any of the general approaches. However, when considering restricted use soil cleanup levels, the remedial party should apply the least restrictive use category feasible. For purposes of this discussion, residential use is the least restrictive use and industrial use is the most restrictive category. This process starts with consideration of residential use, followed by restricted residential use, commercial use, and then industrial use. The evaluation proceeds through the different land uses until a feasible remedy is found. This evaluation is not bound to the SCOs in regulation or SSCOs set forth in this guidance but may result in a site-specific soil cleanup level that is between the SCOs or soil cleanup level for two different land uses (e.g., above the restricted residential SCO and below the commercial SCO).

2. <u>Brownfield Cleanup Program</u> The remedy shall be fully protective of public health and the environment, including, but not limited to, groundwater according to its classification pursuant to ECL 17-0301, drinking water, surface water, air (including indoor air), sensitive populations (including children), and ecological resources (including fish and wildlife). Soil cleanup levels corresponding to the cleanup track under which the site is being remediated are required to be met. The four cleanup tracks are:

<u>Track 1</u>: Cleanups pursuant to this track must achieve unrestricted use of the site. This track requires that the remedial party implement a cleanup utilizing Approach 1. Institutional and engineering controls are allowed only for periods of less than five years (defined as short-term controls) except in the limited instance where a volunteer has conducted remedial activities resulting in a bulk reduction in groundwater contamination to asymptotic levels.

<u>Track 2</u> : Cleanups pursuant to this track may consider the current, intended, or reasonably anticipated future use in determining the appropriate cleanup levels for soil. This track requires that the remedial party implement a cleanup that achieves the SCOs in the tables in 6 NYCRR 375-6.7(b) for the top 15 feet of soil (or bedrock if less than 15 feet). This track follows approach 2. Institutional and engineering controls are allowed for soil (for the top 15 feet of soil or bedrock if less than 15 feet) for less than five years (defined as short-term controls). Institutional and engineering controls which limit site use and the use of onsite groundwater can be used without regard to duration. Track 2 cleanups at restricted residential, commercial or industrial use sites require site management plans to ensure that material removed from the site (post remedial action) is managed appropriately and to ensure that any buffer zone protecting adjacent residential use sites or ecological resources is maintained.

<u>Track 3</u>: Cleanups pursuant to this track may consider the current, intended, or reasonably anticipated use in determining the appropriate cleanup levels for soil. This track requires that the remedial party implement a cleanup utilizing Approach 3 for those SCOs which the remedial party seeks to modify an established SCO. Institutional and engineering controls are allowed for soil (for the top 15 feet of soil or bedrock if less than 15 feet) for less than 5 years (defined as short-term controls). Institutional and engineering controls which limit site use and the use of on-site groundwater can be used without regard to duration. Track 3 cleanups at restricted residential, commercial or industrial use sites require site management plans to ensure that material removed from the site (post remedial action)is managed appropriately and to ensure that any buffer zone protecting adjacent residential use sites or ecological resources is maintained.

<u>Track 4</u>: Cleanups pursuant to this track may consider the current, intended, or reasonably anticipated use in determining the appropriate cleanup levels for soil. This track allows for the development of site-specific soil cleanup levels below the cover system in accordance with Approach 4. Track 4 remedies must address all sources as a component of the remedy. Short- and long-term institutional and engineering controls are allowed to achieve protection of public health and the environment. The remedy under Track 4 must provide a cover system over exposed residual soil contamination. Soils which are not otherwise covered by structures such as buildings, sidewalks or pavement (i.e., exposed surface soils) must be covered with soil that complies with the use-based SCOs in 6 NYCRR Table 375-6.8(b) levels for the top one foot (non-residential uses) or top two feet (restricted residential use).

3. <u>Environmental Restoration Program</u>: The goal of the program for a specific site is to select a remedy that is protective of public health and the environment, including, but not limited to, groundwater according to its classification pursuant to ECL 17-0301, drinking water, surface water and air (including indoor air), sensitive populations (including children) and ecological resources (including fish and wildlife). At a minimum, the remedy selected shall eliminate or mitigate all significant threats to public health and to the environment presented by contaminants disposed at the site through the proper application of scientific and engineering principles. Soil cleanup levels may be developed in accordance with Approaches 1 – 4 without restriction.

4. <u>Voluntary Cleanup Program</u>: The goal of the program for a specific site is to select a remedy that is protective of public health and the environment for the contemplated use. The soil cleanup levels may be developed in accordance with Approaches 1 – 4 without restriction.

5. <u>Petroleum Spill Response Program</u>: The goal of the Petroleum Spill Response Program is to achieve pre-spill conditions [6 NYCRR 611.6(a)(4)]. Remedial activities under this program shall be undertaken relative to the petroleum contamination that was released along with any co-mingled contamination from other sources. The remedial party shall achieve, to the extent feasible, the unrestricted SCOs for petroleum-related contaminants listed in 6 NYCRR Table 375-6.8(a). For petroleum contaminants not included in 6 NYCRR Table 375-6.8(a) (discussed in Section E below), the remedial party shall apply, to the extent feasible, the soil cleanup levels provided in Table 1. For ease of implementation, two lists of petroleum contaminants (Gasoline and Fuel Oil, Tables 2 and 3) are attached. The tables combine the applicable petroleum-related SCOs from 6 NYCRR 375-6.8(a) and the applicable petroleum related SSCOs from Table 1. Where DEC determines that it is not feasible to achieve the soil cleanup levels as set forth in this paragraph, the remedial party may propose soil cleanup levels in accordance with any of the general approaches. However, when considering restricted use soil cleanup levels, the remedial party should apply the least restrictive use category feasible.

For purposes of this discussion, residential use is the least restrictive use, and industrial use is the most restrictive category. This process starts with consideration of residential use, followed by restricted residential use, commercial use, and then industrial use. The evaluation proceeds through the different land uses until a feasible remedy is found. If the protection of groundwater or ecological SCOs apply, the lower of the applicable protection of the public health SCO or the applicable protection of groundwater or ecological SCO should be achieved to the extent feasible. This evaluation is not bound to the SCOs in regulation or the SSCOs set forth in this guidance but may result in a site-specific soil cleanup level that is between the SCOs or soil cleanup level for two different land uses (e.g., above the restricted residential SCO and below the commercial SCO).

6. <u>RCRA Corrective Action Program</u>: The RCRA program was promulgated to regulate facilities that actively manage hazardous waste. DER administers the RCRA Corrective Action Program, with a goal of achieving soil cleanup levels at Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) that eliminate risks to public health and the environment (i.e., clean the site to unrestricted use) or control said risks (i.e., clean the site or unit(s) to the lowest possible soil cleanup objective, regardless of site use), to the extent feasible. This goal takes into account that certain units at the facility may be permitted to manage hazardous waste under New York State's Hazardous Waste Management (HWM) regulations (6 NYCRR Part 373). The requirements of active HWM facilities, as well as the site's history, will be considered when soil cleanup levels are determined. Selected remedies must be protective of public health and the environment. Soil cleanup levels will be selected using the following procedure.

(a) The remedial party shall evaluate, and if feasible, implement a cleanup utilizing Approach 1. Under this approach, the unrestricted SCOs apply to the entire soil matrix to the top of bedrock. For contaminants not listed in 6 NYCRR 375-6, a new or existing SSCO may be used.

(b) If DEC determines that achieving unrestricted SCOs is not feasible, the remedial party may evaluate other alternatives to remediate the site. In this event, the remedial party may propose soil cleanup levels in accordance with any of the general approaches. However, when considering restricted use soil cleanup levels, the remedial party shall apply the use category which is both feasible and least restricted. For purposes of this discussion, residential use is the least restricted category and industrial use is the most restricted category. A soil cleanup level between two different land uses (e.g., residential and restricted residential) may be determined to be feasible, and if selected, must be achieved.

Any soil cleanup levels specified in regulation (i.e., 6 NYCRR 373-2.6(b)-(k) for "regulated units" as defined in 6 NYCRR 373-2.6 (a)(1)(ii)) or in a DEC enforceable document (Part 373 permits, Consent Orders, etc.) shall take precedence over the soil cleanup levels which could be established through use of this document.

C. Determination of Whether Ecological Resources SCOs Apply to a Site: SCOs developed to protect ecological resources (ESCOs) are incorporated in the Unrestricted Use SCO in 6 NYCRR Table 375-6.8(a) and are included as a separate category in 6 NYCRR Table 375-6.8(b). For contaminants of concern which do not have a calculated ESCO in regulation, DEC may direct the remedial party to develop a soil cleanup level which is protective of ecological resources where appropriate, based on the process outlined in Appendix E of the TSD.

The presence of ecological resources and any impact to those resources will be assessed during the remedial investigation. For sites where there is the potential for an ecological resource impact to be present, or where it is likely to be present, an assessment of fish and wildlife resource impacts will be performed. For sites in DER's SSF, BCP, VCP and ERP, the assessment will be performed in accordance with DEC's guidance, *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites*, October, 1994, as described in DER-10, Section 3.10. For sites in the RCRA Corrective Action Program, the assessment will be performed using the above referenced fish and wildlife impact analysis document as guidance, and by consulting with appropriate personnel in DEC's Division of Fish, Wildlife and Marine Resources.

Soil cleanup levels which are protective of ecological resources must be considered and applied, as appropriate, for the upland soils (not sediment) at sites where DEC determines, based on the foregoing analysis, that:

- ecological resources are present, or will be present, under the reasonably anticipated future use of the site, and such resources constitute an important component of the environment at, or adjacent to, the site;

- an impact or threat of impact to the ecological resource has been identified; and

- contaminant concentrations in soil exceed the ESCOs as set forth in 6 NYCRR 375-6.8(b) or the Protection of Ecological Resources SSCOs contained in this document.

Sites or portions thereof that will be covered by buildings, structures or pavement are not subject to the ESCOs. Further, ecological resources do not include pets, livestock, agricultural or horticultural crops, or landscaping in developed areas. (See 6 NYCRR 375-6.6 for more detail.)

D. Determination of Whether Protection of Groundwater SCOs Apply: SCOs developed to protect groundwater are incorporated in the Unrestricted Use SCOs in 6 NYCRR Table 375-6.8(a) and are included as a separate category in 6 NYCRR Table 375-6.8(b). For contaminants of concern which do not have a protection of groundwater SCO, DEC may direct the remedial party to develop a soil cleanup level which is protective of groundwater using the process in Appendix E of the TSD.

1. Except as provided for in (2) below, the protection of groundwater SCOs will be applicable where:

   (i) contamination has been identified in on-site soil by the remedial investigation; and
   (ii) groundwater standards are, or are threatened to be, contravened by the presence of soil contamination at concentrations above the protection of groundwater SCOs.

2. DEC may provide an exception to the applicability of the protection of groundwater SCOs, as set forth in 6 NYCRR 375-6.5(a)(1), when (i), (ii), and (iii) exist and either (iv) or (v) also apply, as described below.

   (i) The groundwater standard contravention is the result of an on-site source which is addressed by the remedial program.
   (ii) An environmental easement or other institutional control will be put in place which provides for a groundwater use restriction.
   (iii) DEC determines that contaminated groundwater at the site:
      (a) is not migrating, nor is likely to migrate, off-site; or
      (b) is migrating, or is likely to migrate, off-site; however, the remedy includes active groundwater management to address off-site migration.
   (iv) DEC determines the groundwater quality will improve over time.
   (v) The groundwater contamination migrating from the site is the result of an off-site source of contamination, and site contaminants are not contributing consequential amounts to the groundwater contamination.

3. In determining whether to provide the exemption set forth in subparagraph 2 above, DEC will consider:

   (i) all of the remedy selection criteria at 6 NYCRR 375-1.8(h) or in the RCRA Corrective Action program;
   (ii) the amount of time that the groundwater will need to be actively managed for the protection of public health and the environment; and
   (iii) the potential impact that groundwater contamination may have on media not specifically addressed by the SCOs (e.g., vapor intrusion, protection of surface water, and protection of aquatic ecological resources).

E. Supplemental Soil Cleanup Objectives: SSCOs are either existing cleanup levels in Table 1 or are new soil cleanup levels developed by the remedial party as part of its remedial program. These SSCOs are in addition to the SCOs that are included in Part 375.

Existing SSCOs: The Table 1 list of SSCOs includes contaminants from former TAGM 4046 that were not included in 6 NYCRR 375-6.8 and soil cleanup levels developed using the process detailed in Appendix E of the TSD but not promulgated. For those contaminants which were part of the former TAGM 4046, soil cleanup levels exist for the protection of public health (based on ingestion) and for the protection of groundwater. In some cases, to be determined on a site-by-site basis, evaluation of other factors is likely needed for the protection of public health, especially when the use of a site includes residential use.

These other factors include other exposure pathways (e.g., homegrown vegetable ingestion, inhalation and dermal contact), potential non-site exposures to the contaminant and current toxicological data on the contaminant. In these instances, DEC (in consultation with NYSDOH) will determine if the additional factors have been adequately addressed. The SSCOs identified in Table 1 (subject to the limitation described above) may be used as if they were included in Part 375. A remedial party is not required to use the SSCOs set forth in Table 1. In lieu of applying an SSCO, the remedial party may elect to develop a soil cleanup level (using the process described in Appendix E of the TSD and discussed below.) Table 1 also includes SSCOs that were developed for some pathways using the same process detailed in the TSD. A remedial party may elect to use those SSCOs directly or confirm that the calculated value for that pathway is correct.

New SSCOs: The remedial party may elect to, or DEC may direct a remedial party to, develop a contaminant-specific SCO for any contaminant not included in 6 NYCRR Tables 375-6.8(a) or (b). Generally, DEC will request that an SCO be developed only where the contaminant is a predominant contaminant of concern (COC) at the site and is not otherwise being addressed to DEC's satisfaction as part of the proposed remedy. This could happen, for example, when a remedial party is seeking a Track 1 cleanup and non-SCO/SSCO contaminants are present and may not be satisfactorily addressed by the remedial activities addressing the SCOs or SSCOs. Guidance on the process for developing new SCOs is provided in Appendix E of the TSD. DEC will include all newly developed soil cleanup levels, developed and approved pursuant to this paragraph in a revised Table 1. The developed SSCO must:

1. be developed utilizing the same methodologies that were used by DEC to develop SCOs that are set forth in Part 375; and

2. apply the maximum acceptable soil concentrations (caps), as set forth in section 9.3 of the TSD.

F. Use of SCOs and SSCOs as a Screening Tool: The SCOs and SSCOs may be used to identify areas of soil contamination and to determine the extent of soil contamination. As noted in Section V.K, consideration of other media is required to determine if remedial action is needed.

1. At sites or areas of concern where contaminant concentrations are equal to or below the unrestricted SCOs in 6 NYCRR Table 375-6.8(a), no action or study is warranted because of soil contamination.

2. The exceedance of one or more applicable SCOs or SSCOs, (which is the lower of protection of public health, protection of groundwater, or protection of ecological resources soil cleanup objectives as described in Section III below), alone does not trigger the need for remedial action, define "unacceptable" levels of contaminants in soil, or indicates that a site qualifies for any DEC remedial program (e.g., BCP, SSF). As noted in the definition of SCO above, SCOs and SSCOs are applicable statewide and do not account for many site-specific considerations which could potentially result in higher levels. Therefore, soil concentrations that are higher than the applicable SCOs or SSCOs are not necessarily health or environmental concerns.

3. When an applicable SCO or SSCO is exceeded, the degree of public health or environmental concern depends on several factors, including:

    - magnitude of the exceedance;
    - accuracy of the exposure estimates;
    - other sources of exposure to the contaminant; and
    - strength and quality of the available toxicological information on the contaminant.

G. Soil Cleanup Levels for Nuisance Conditions: Experience has shown that contaminants in soil that meets the DEC-approved soil cleanup levels can exhibit a distinct odor or other type of nuisance (e.g., staining). This is true even though the contaminants will not leach from the soil (e.g., certain soils with more insoluble substances at higher concentrations). When DEC determines that soil remaining after the remedial action will result in the continuation of a nuisance (e.g., odors, staining, etc), DEC will require that additional remedial measures be evaluated, and may require additional remedial actions be taken to address the nuisance condition.

H. Subsurface Soil Cleanup for Total Polycyclic Aromatic Hydrocarbons: For non-residential use sites (i.e., commercial or industrial use sites) where the ESCOs are not applicable, DEC may approve a remedial program which achieves a soil cleanup level of 500 parts per million (ppm) for total PAHs for all subsurface soil. The 500 ppm soil cleanup level is in lieu of achieving all of the PAH-specific SCOs in 6 NYCRR 375-6. For purposes of this provision, subsurface soil shall mean the soil beneath permanent structures, pavement, or similar cover systems; or at least one foot of soil cover (which must meet the applicable SCOs). Institutional controls (e.g., an environmental easement) along with a site management plan will be required when this soil cleanup level is employed at a site. This cleanup level is determined to be feasible and protective based on DEC's experience in its various remedial programs. This approach has existed in TAGM 4046 since it was first issued in 1992.

I. Soil Cleanup for PCBs: DEC may approve a remedial program which achieves a soil cleanup level for PCBs as set forth herein:

1. **For Non-BCP sites:** An acceptable presumptive remedy for soil where neither the unrestricted SCOs nor the ESCOs are applied in the remedial program may include a soil cleanup level for PCBs of 1 ppm in the surface soils and 10 ppm in subsurface soils.

2. **For BCP sites:** An acceptable presumptive remedy for soil may include a soil cleanup level for PCBs of 1 ppm (the applicable SCO) in the surface soils and 10 ppm in subsurface in limited circumstances as follows:

- cleanup track is Track 4;
- site use will be restricted residential, commercial or industrial; and
- ESCOs do not apply.

3. **At industrial use sites,** a level of 25 ppm for PCBs provided that access is limited and individual occupancy is restricted to less than an average of 6.7 hours per week.

For purposes of this provision, subsurface soil shall mean:

- soil beneath permanent structures, pavement, or similar cover systems;
- soil beneath 1 foot of soil cover for commercial and industrial uses; or
- soil beneath 2 feet of soil cover for residential and restricted residential uses.

Institutional controls (i.e., an environmental easement), along with a site management plan, will be required when this soil cleanup level is employed at a site. As with all presumptive remedies, just because a remedy is presumptive does not mean that it will work at every site. For example, this presumptive remedy for PCBs in soil is not applicable at most landfills. This cleanup level is determined to be feasible and protective based on DEC's experience in its various remedial programs. Further, this approach has existed in TAGM 4046 since it was first issued in 1992.

J. Sampling and Compliance with Soil Cleanup Levels: The number of samples to determine if the SCOs have been achieved should be sufficient to be representative of the area being sampled. See attached Table 4 for suggested sampling frequency and subdivision 5.4(e) of DER-10 for details. This frequency can be used for confirmatory samples or for backfill. It is DEC's goal that all confirmatory samples demonstrate that the remedy has achieved the DEC-approved soil cleanup levels. However, recognizing the heterogeneity of contaminated sites and the uncertainty of sampling and analysis, DEC project manager has limited discretion to determine that remediation is complete where some discrete samples do not meet the soil cleanup levels established for a site. See DER-10 for more information regarding the determination that remediation is complete.

K. Other Considerations: All remedies must be fully protective of public health and the environment and prevent off-site migration to the extent feasible with special emphasis for the prevention or minimization of migration onto adjacent residential properties or into ecological resources. A remedial party is required to investigate all environmental media including soil, groundwater, surface water, sediments, soil vapor, indoor air, and biota. (See 6 NYCRR 375-1.8(a)(6) or RCRA Corrective Action Program). This investigation will determine if any of the referenced media are, or may be, impacted by site contamination. However, the SCOs do not directly address these other media. DEC may require remedial actions to address such media and impacts, including but not limited to the application of lower soil cleanup levels or buffer zones where it determines, based on the investigation, that any of these media are, or may be, impacted by site contamination.

VI. Related References:

- Environmental Conservation Law, Article 27 Titles 3, 5, 9, 13 and 14.

- Article 12 of the Navigation Law, Section 178.

- 6 NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.
- 6 NYCRR Subparts 373-1, 373-2 and 373-3, Requirements for Hazardous Waste Management Facilities. September 6, 2006.
- 6 NYCRR Part 611, Environmental Priorities and Procedures in Petroleum Cleanup and Removal. November 5, 1984 (amended).
- Development of Soil Cleanup Objectives: Technical Support Document. New York State Department of Environmental Conservation. December 14, 2006.
- Supplemental Guidance to RAGS: Calculating the Concentration Term. United States Environmental Protection Agency. Publication 9285.7-081. May 1992.
- New York State Guidelines for Urban Erosion and Sediment Control. 1997.
- Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites. New York State Department of Environmental Conservation. October 1994.
- Program Policy DER-2, *Making Changes to Selected Remedies*. New York State Department of Environmental Conservation. April 1, 2008.
- Program Policy DER-10, *Technical Guidance for Site Investigation and Remediation*. New York State Department of Environmental Conservation. May 3, 2010.
- Program Policy DER-15, *Presumptive/Proven Remedial Technologies*. New York State Department of Environmental Conservation. February 27, 2007.

TABLES

1 - Supplemental Soil Cleanup Objectives
2 - Soil Cleanup Levels for Gasoline Contaminated Soils
3 - Soil Cleanup Levels for Fuel Oil Contaminated Soils
4 - Recommended Number of Soil Samples for Soil Imported to or Exported From a Site

Table 1

Supplemental Soil Cleanup Objectives
(ppm)

Contaminant	CAS Number	Residential	Restricted Residential	Commercial	Industrial	Protection of Ecological Resources	Protection of Ground-water
METALS							
Aluminum	7429-90-5					10,000 [a,b]	
Antimony	7440–36-0					12[c]	
Boron	7440-42-8					0.5	
Calcium	7440-70-2					10,000 [a,b]	
Cobalt	7440-48-4	30				20	
Iron	7439-89-6	2,000					
Lithium	7439-93-2					2	
Molybdenum	7439-98-7					2	
Technetium	7440-26-8					0.2	
Thallium	7440-28-0					5 [c]	
Tin	7440-31-5					50	
Uranium	7440-61-1					5	
Vanadium	7440-62-2	100 [a]				39[b]	
PESTICIDES							
Biphenyl	92-52-4					60	
Chlordecone (Kepone)	143-50-0					0.06	
Dibenzofuran	132-64-9						6.2
2,4-D (2,4-Dichloro-phenoxyacetic acid)	94-75-7	100 [a]					0.5
Furan	110-00-9					600	
Gamma Chlordane	5103-74-2	0.54					14
Heptachlor Epoxide	1024-57-3	0.077					0.02
Methoxychlor	72-43-5	100 [a]				1.2	900

Contaminant	CAS Number	Residential	Restricted Residential	Commercial	Industrial	Protection of Ecological Resources	Protection of Ground-water
Parathion	56-38-2	100 [a]					1.2
2,4,5-T	93-76-5	100 [a]					1.9
2,3,7,8-TCDD	1746-01-6					0.000001	
2,3,7,8-TCDF	51207-31-9					0.000001	
SEMIVOLATILE ORGANIC COMPOUNDS							
Aniline	62-53-3	48	100[a]	500[a]	1000[a]		0.33[b]
Bis(2-ethylhexyl) phthalate	117-81-7	50				239	435
Benzoic Acid	65-85-0	100[a]					2.7
Butylbenzyl-phthalate	85-68-7	100 [a]					122
4-Chloroaniline	106-47-8	100 [a]					0.22
Chloroethane	75-00-3						1.9
2-Chlorophenol	95-57-8	100 [a]				0.8	
3-Chloroaniline	108-42-9					20	
3-Chlorophenol	108-43-0					7	
Di-n-butyl-phthalate	84-74-2	100 [a]				0.014	8.1
2,4-Dichlorophenol	120-83-2	100 [a]				20	0.40
3,4-Dichlorophenol	95-77-2					20	
Diethylphthalate	84-66-2	100 [a]				100	7.1
Di-*n*-hexyl-phthalate	84-75-3					0.91	
2,4-Dinitrophenol	51-28-5	100 [a]				20	0.2
Dimethylphthlate	131-11-3	100 [a]				200	27
Di-n-octylphthlate	117-84-0	100 [a]					120
1,2,3,6,7,8-HCDF	57117-44-9					0.00021	
Hexachloro-benzene	118-74-1	0.41					1.4
2,6-Dinitrotoluene	606-20-2	1.03					1.0
Isophorone	78-59-1	100 [a]					4.4

Contaminant	CAS Number	Residential	Restricted Residential	Commercial	Industrial	Protection of Ecological Resources	Protection of Ground-water
4-methyl-2-pentanone	108-10-1						1.0
2-methyl-naphthalene	91-57-6	0.41					36.4
2-Nitroaniline	88-74-4						0.4
3-Nitroaniline	99-09-2						0.5
Nitrobenzene	98-95-3	3.7	15	69	140	40	0.17[b]
2-Nitrophenol	88-75-5					7	0.3
4-Nitrophenol	100-02-7					7	0.1
Pentachloroaniline	527-20-8					100	
2,3,5,6-Tetrachloroaniline	3481-20-7					20	
2,3,4,5-Tetrachlorophenol	4901-51-3					20	
2,4,5-Trichloroaniline	636-30-6					20	
2,4,5-Trichlorophenol	95-95-4	100 [a]				4	0.1
2,4,6-Trichlorophenol	88-06-2					10	
VOLATILE ORGANIC COMPOUNDS							
2-Butanone	78-93-3	100 [a]					0.3
Carbon Disulfide	75-15-0	100 [a]					2.7
Chloroacetamide	79-07-2					2	
Dibromochloro-methane	124-48-1					10	
2,4-Dichloro aniline	554-00-7					100	
3,4-Dichloroaniline	95-76-1					20	
1,2-Dichloropropane	78-87-5					700	
1,3-Dichloropropane	142-28-9						0.3
2,6-Dinitrotoluene	606-20-2	1.03					0.17[b]
Ethylacetate	141-78-6					48	

Contaminant	CAS Number	Residential	Restricted Residential	Commercial	Industrial	Protection of Ecological Resources	Protection of Ground-water
4-methyl-2-pentanone	108-10-1						1.0
113 Freon (1,1,2- TFE)	76-13-1	100 [a]					6
isopropylbenzene	98-82-8	100 [a]					2.3
p-isopropyltoluene	99-87-6						10
Hexachlorocyclo-pentadiene	77-47-4					10	
Methanol	67-56-1					6.5	
N-nitrosodiphenyl-amine	86-30-6					20	
Pentachloro-benzene	608-93-5					20	
Pentachloronitro-benzene	82-68-8					10	
Styrene	100-42-5					300	
1,2,3,4-Tetrachlorobenzene	634-66-2					10	
1,1,2,2-Tetrachloroethane	79-34-5	35					0.6
1,1,2,2-Tetrachloroethylene	127-18-4					2	
1,2,3-Trichlorobenzene	87-61-6					20	
1,2,4-Trichlorobenzene	120-82-1					20	3.4
1,2,3-Trichloropropane	96-18-4	80					0.34

[a] SCOs for organic contaminants (volatile organic compounds, semivolatile organic compounds, and pesticides) are capped at 100 ppm for residential use, 500 ppm for commercial use, 1000 ppm for industrial use. SCOs for metals are capped at 10,000 ppm.

[b] Based on rural background study

[c] SCO limited by contract required quantitation limit.

Table 2

Soil Cleanup Levels for Gasoline Contaminated Soils

Contaminant	CAS Registry Number	Soil Cleanup Level (ppm)
Benzene	71-43-2	0.06
n-Butylbenzene	104-51-8	12.0
sec-Butylbenzene	135-98-8	11.0
Ethylbenzene	100-41-4	1.0
Isopropylbenzene	98-82-8	2.3
p-Isopropyltoluene	99-87-6	10.0
Methyl-Tert-Butyl-Ether	1634-04-4	0.93
Naphthalene	91-20-3	12.0
n-Propylbenzene	103-65-1	3.9
Tert-Butylbenzene	98-06-6	5.9
Toluene	108-88-3	0.7
1,2,4-Trimethylbenzene	95-63-6	3.6
1,3,5-Trimethylbenzene	108-67-8	8.4
Xylene (Mixed)	1330-20-7	0.26

Table 3

Soil Cleanup Levels for Fuel Oil Contaminated Soil

Contaminant	CAS Registry Number	Soil Cleanup Level (ppm)
Acenaphthene	83-32-9	20
Acenaphthylene	208-96-8	100
Anthracene	120-12-7	100
Benz(a)Anthracene	56-55-3	1.0
Dibenzo(a,h)Anthracene	53-70-3	0.33
Benzene	71-43-2	0.06
n-Butylbenzene	104-51-8	12.0
sec-Butylbenzene	135-98-8	11.0
Tert-Butylbenzene	98-06-6	5.9
Chrysene	218-01-9	1.0
Ethylbenzene	100-41-4	1.0
Fluoranthene	206-44-0	100
Benzo(b)Fluoranthene	205-99-2	1.0
Benzo(k)Fluoranthene	207-08-9	0.8
Fluorene	86-73-7	30
Isopropylbenzene	98-82-8	2.3
p-Isopropyltoluene	99-87-6	10.0
Naphthalene	91-20-3	12.0
n-Propylbenzene	103-65-1	3.9
Benzo(g,h,i)Perylene	191-24-2	100
Phenanthrene	85-01-8	100
Pyrene	129-00-0	100
Benzo(a)Pyrene	50-32-8	1.0
Indeno(1,2,3-cd)Pyrene	193-39-5	0.5
1,2,4-Trimethylbenzene	95-63-6	3.6
1,3,5-Trimethylbenzene	108-67-8	8.4
Toluene	108-88-3	0.7
Xylene (Mixed)	1330-20-7	0.26

Table 4

Recommended Number of Soil Samples for Soil Imported To or Exported From a Site

Contaminant	VOCs[a]	SVOCs, Inorganics & PCBs/Pesticides	
Soil Quantity (cubic yards)	**Discrete Samples**	**Composite**	**Discrete Samples/Composite**
0-50	1	1	Each composite sample for analysis is created from 3-5 discrete samples from representative locations in the fill.
50-100	2	1	
100-200	3	1	
200-300	4	1	
300-400	4	2	
400-500	5	2	
500-800	6	2	
800-1000	7	2	
➢ 1000	Add an additional 2 VOC and 1 composite for each additional 1000 Cubic yards or consult with DER.[b]		

[a] VOC samples cannot be composited. Discrete samples must be taken to maximize the representativeness of the results.

[b] For example, a 3,000 cubic yard soil pile to be sampled and analyzed for VOCs would require 11 discrete representative samples. The same pile to be sampled for SVOCs would require 4 composite samples with each composite sample consisting of 3-5 discrete samples.

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Environmental Remediation Databases

Spill Incidents Database Search

(Includes spill data from Jan 1, 1978 through 02/25/2020)

This database contains records of chemical and petroleum spill incidents.

Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). Each spill record includes:

- Administrative information (DEC region and unique seven-digit spill number)
- Spill date/time
- Location
- Spill description, including spill source and cause, material(s) spilled, and resources affected
- Region close date (cleanup activity finished and all paperwork completed)

Environmental Site Remediation Database Search

(Jan 1, 1978 through present, updated nightly)

This database contains records of the sites which have been remediated or are being managed under one of DER's remedial programs (i.e. , State Superfund, Brownfield Cleanp, etc.). All sites listed on the "Registry of Inactive Hazardous Waste Disposal Sites in New York State" are include in this database. The Database also includes the "Registry of Institutional and Engineering Controls in New York State".

Each site record includes:

- Administrative information, including site name, classification, and unique site code
- Location
- Site owner(s)
- Institutional and Engineering Controls
- Description of each site
- Wastes known or thought to be disposed at the site
- Assessment of environmental and health problems

Bulk Storage Database Search

(Updated Nightly)

There are two ways to search the database: By Bulk Storage Program Site Number or by other search criteria. Entering a site number will provide the record for one facility. Entering other search criteria will provide a list of BSP Facilities that meet the criteria, with partial information about each and links to additional information for each facility.

Each site record includes:

- Location
- Facility information, including site number, site type, site name, county, city, site address
- Owner and Mail contact information where allowable by FOIL
- Tank Information, including tank number, tank location, tank status, tank capacity, material and equipment details where allowable by FOIL

Other Links of Interest

Environmental Site Remediation
Spill Response and Remediation Program
Environmental Spills Frequently Asked Questions - background information on spills and DEC's spill cleanup and prevention programs
Glossary of Spill Response Terms
Glossary of Environmental Site Remediation Terms
Priority Classification - Definitions of the site classification codes used in the inactive hazardous waste disposal records
Environmental Remediation FTP Data Site - Downloadable files of the public bulk storage, remediation, and spills data (Updated daily)
New York Open Data Website - The New York State Open Data Project

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Environmental Site Remediation Database Search Results

Record Count: 9 Rows: 1 to 9

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	Site Code	Site Name	Program	Site Class	County	City/town	Address
1	C915260	Former Mobil Service Station 99-MST	BCP	C	Erie	Buffalo	979 Main Street
2	C915262	125 Main Street Site	BCP	C	Erie	Buffalo	125 Main Street
3	C915270	Webster Block	BCP	C	Erie	Buffalo	75 Main Street
4	C915306	Main and East Balcom Street Site	BCP	C	Erie	Buffalo	1661 Main Street
5	C915318	Main and Hertel	BCP	A	Erie	Buffalo	2929-2939 Main Street
6	C915341	1155 Main Street	BCP	C	Erie	Buffalo	1155 Main Street
7	C915347	130 Main Street	BCP	A	Erie	Buffalo	130 Main Street
8	915278	1542 Main Street	HW	P	Erie	Buffalo	1542 Main Street
9	V00168	Main-LaSalle Revitalization Project	VCP	N	Erie	Buffalo	Main-LaSalle Street

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Bulk Storage Database SearchResults

Record Count: 56 Rows: 1 to 50

Export XLS | Export CSV | Export KML | First 50 | Previous 50 | Next 50 | Last 50

Site Number	Site Type	Facility Name	County	Locality	Site Address	ZipCode	Facility Status	Expiration Date
9-000117	CBS	HENKEL CORP	ERIE	BUFFALO	710 OHIO STREET	14203	INACTIVE	06/15/2011
9-000343	CBS	ERIE COMMUNITY COLLEGE AQUATIC CENTER	ERIE	BUFFALO	21 OAK STREET	14203	UNREGULATED/CLOSED	08/19/1997
9-000384	CBS	GELINMAC STORAGE CORP.	ERIE	BUFFALO	60 CHILD STREET	14203	UNREGULATED/CLOSED	10/24/2000
9-008648	PBS	BUFFALO ENVELOPE CO	ERIE	Buffalo	270 MICHIGAN AVE	14203	UNREGULATED/CLOSED	07/01/1991
9-008893	PBS	FREEZER QUEEN FOODS INC	ERIE	Buffalo	975 FUHRMANN BLVD	14203	UNREGULATED/CLOSED	09/02/2001
9-014621	PBS	GEORGE W BURNETT INC	ERIE	Buffalo	191 GANSON ST	14203	UNREGULATED/CLOSED	09/02/2001
9-026867	PBS	U S POSTAL SERVICE ELLICOTT	ERIE	Buffalo	701 WASHINGTON STREET	14203	UNREGULATED/CLOSED	09/19/2001
9-027758	PBS	PINTO EQUIPMENT RENTAL INC	ERIE	Buffalo	51 PERRY STREET	14203	UNREGULATED/CLOSED	09/19/1996
9-037826	PBS	INTERNATIONAL MULTIFOODS CORP	ERIE	Buffalo	120 CHILDS ST	14203	UNREGULATED/CLOSED	10/17/1991
9-040460	PBS	ERIE COMMUNITY COLLEGE	ERIE	Buffalo	121 ELLICOTT ST	14203	UNREGULATED/CLOSED	12/18/1996
9-079588	PBS	CONCRETE DELIVERY CO INC	ERIE	Buffalo	751 FUHRMANN BLVD	14203	UNREGULATED/CLOSED	03/24/1992
9-088935	PBS	CONVENIENCE STORE	ERIE	Buffalo	51 BROADWAY	14203	ACTIVE	04/02/2021
9-125156	PBS	BUFFALO EVENING NEWS	ERIE	Buffalo	125 SCOTT ST	14203	UNREGULATED/CLOSED	07/20/1997
9-125164	PBS	GREYHOUND LINES, INC #150249/ NFTA MTC	ERIE	Buffalo	181 ELLICOTT STREET	14203	ACTIVE	07/20/2022
9-220450	PBS	TRICO PRODUCTS CORPORATION #1	ERIE	Buffalo	817 WASHINGTON ST	14203	UNREGULATED/CLOSED	07/20/1992
9-221732	PBS	GENERAL MILLS OPERATIONS, INC	ERIE	Buffalo	54 SOUTH MICHIGAN AVENUE	14203	ACTIVE	10/29/2021

9-382760	PBS	G A KAYSER & SONS INC	ERIE	Buffalo	327 ELM ST	14203	UNREGULATED/CLOSED	08/17/1997
9-386081	PBS	GENESEE BREWING CO. MALTING DIV	ERIE	Buffalo	100 CHILDS ST	14203	UNREGULATED/CLOSED	08/17/1997
9-386758	PBS	ELM STREET GARAGE	ERIE	Buffalo	161 ELM ST	14203	UNREGULATED/CLOSED	07/20/2007
9-387495	PBS	NYS OFFICE OF GENERAL SERVICES	ERIE	Buffalo	125 MAIN ST	14203	UNREGULATED/CLOSED	10/06/1992
9-387746	PBS	GEN WM J DONOVAN STATE OFFICE BLDG	ERIE	Buffalo	125 MAIN ST	14203	UNREGULATED/CLOSED	08/17/2007
9-415324	PBS	CARPE DIEM	ERIE	Buffalo	389 MAIN ST	14203	INACTIVE	10/06/2007
9-418463	PBS	VERIZON NEW YORK INC. (NY65765)	ERIE	Buffalo	345 ELLICOTT STREET	14203	UNREGULATED/CLOSED	08/26/2012
9-421227	PBS	GEORGE W. BURNETT INC.	ERIE	Buffalo	145 GANSON STREET	14203	ACTIVE	09/15/2020
9-427209	PBS	ENGINE HOUSE #1	ERIE	Buffalo	132 ellicott st	14203	UNREGULATED/CLOSED	12/14/1992
9-427659	PBS	BUFFALO ELECTRIC BUILDING	ERIE	Buffalo	535 WASHINGTON ST	14203	UNREGULATED/CLOSED	12/14/2007
9-436895	PBS	HURONELL CORP.	ERIE	Buffalo	371-381 ELLICOTT ST.	14203	UNREGULATED/CLOSED	06/28/1998
9-437085	PBS	ADVANCED METALS RECYCLING	ERIE	Buffalo	776 OHIO STREET	14203	UNREGULATED/CLOSED	06/28/1993
9-437093	PBS	COWPER SIEGFRIED CO., INC.	ERIE	Buffalo	201 GANSON ST.	14203	UNREGULATED/CLOSED	06/28/1993
9-441317	PBS	NYSDOT - BUFFALO SUB RES	ERIE	Buffalo	425 OAK STREET	14203	ACTIVE	06/28/2023
9-451320	PBS	BUFFALO GENERAL HOSPITAL	ERIE	Buffalo	100 HIGH ST	14203	ACTIVE	07/28/2023
9-491470	PBS	U.S. COAST GUARD STATION BUFFALO	ERIE	Buffalo	1 fuhrmann blvd	14203	ACTIVE	05/25/2024
9-493228	PBS	PORT OF BUFFALO	ERIE	Buffalo	901 FUHRMANN BOULEVARD	14203	UNREGULATED/CLOSED	11/03/2021
9-495905	PBS	M & T CENTER	ERIE	BUFFALO	1 FOUNTAIN PLAZA	14203	ACTIVE	08/18/2024
9-500658	PBS	BUFFALO RIVER IMPROVEMENT CORP	ERIE	BUFFALO	1016 FUHRMAN BLVD	14203	UNREGULATED/CLOSED	02/09/2000
9-501727	PBS	ELLICOTT SQUARE BUILDING	ERIE	Buffalo	295 MAIN STREET	14203	ACTIVE	04/23/2025
9-600043	PBS	MICHIGAN SENECA GROUP INC.	ERIE	Buffalo	270 MICHIGAN STREET	14203	UNREGULATED/CLOSED	09/13/2011
9-600100	PBS		ERIE	Buffalo	901 fuhrmann blvd	14203	UNREGULATED/CLOSED	09/15/1997

		TOPS LAKESIDE DISTRIBUTION CENTER						
9-600173	PBS	HOLCIM (US) INC.	ERIE	Buffalo	1751 FUHRMANN BLVD.	14203	ACTIVE	08/26/2020
9-600606	PBS	GERDAU BUFFALO METALLICS RAW MATERIALS	ERIE	Buffalo	776 OHIO STREET	14203	ACTIVE	02/27/2023
9-600825	PBS	FERGUSON ELECTRIC CONSTRUCTION CO INC	ERIE	BUFFALO	303 ELLICOTT ST	14203	UNREGULATED/CLOSED	03/15/2021
9-600841	PBS	SIEGFRIED CONSTRUCTION CO INS	ERIE	BUFFALO	FRANKLIN ST	14203	UNREGULATED/CLOSED	03/15/2021
9-600937	PBS	HSBC ATRIUM	ERIE	Buffalo	95 WASHINGTON STREET	14203	ACTIVE	10/03/2021
9-600948	PBS	CITY OF BUFFALO TANK	ERIE	BUFFALO	CARLTON ST	14203	UNREGULATED/CLOSED	03/01/2012
9-600968	PBS	ERIE COUNTY PUBLIC SAFETY CAMPUS	ERIE	Buffalo	45 ELM STREET	14203	ACTIVE	07/26/2022
9-601008	PBS	MR. TIRE 686	ERIE	BUFFALO	120 BROADWAY	14203	UNREGULATED/CLOSED	01/22/2018
9-601052	PBS	NYSDOT	ERIE	Buffalo	100 SENECA STREET	14203	ACTIVE	08/27/2023
9-601082	PBS	ONTARIO SPECIALITY CONTRACTING, INC.	ERIE	BUFFALO	333 GANSON STREET	14203	UNREGULATED/CLOSED	04/03/2014
9-601232	PBS	PROPERTY	ERIE	BUFFALO	174 HIGH ST	14203	UNREGULATED/CLOSED	12/07/2015
9-601336	PBS	ENGINE 1	ERIE	Buffalo	132 ELLICOTT ST.	14203	ACTIVE	10/22/2022

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Bulk Storage Database SearchResults

Record Count: 56 Rows: 51 to 56

Export XLS | Export CSV | Export KML | First 50 | Previous 50 | Next 50 | Last 50

Site Number	Site Type	Facility Name	County	Locality	Site Address	ZipCode	Facility Status	Expiration Date
9-601420	PBS	VACANT LOT	ERIE	BUFFALO	5 MIAMI ST	14203	UNREGULATED/CLOSED	10/16/2019
9-601658	PBS	FORMER AM&A'S	ERIE	BUFFALO	377 MAIN ST.	14203	UNREGISTERED	
9-601659	PBS	FORMER AM&A'S	ERIE	BUFFALO	377 MAIN ST	14203	UNREGISTERED	
9-601661	PBS	NFTA OPERATION CONTROL CENTER	ERIE	Buffalo	93 OAK STREET	14203	ACTIVE	11/01/2021
9-601759	PBS	CONVENTUS BUILDING	ERIE	Buffalo	1001 MAIN STREET	14203	ACTIVE	10/31/2022
9-601804	PBS	SUNY AT BUFFALO JSMBS	ERIE	Buffalo	955 MAIN ST.	14203	ACTIVE	02/08/2023

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Return To Results

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 13 Rows: 1 to 13

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	8402440	12/11/1984	240 SCOTT STREET	Erie	BUFFALO	240 SCOTT STREET
2.	8701457	05/21/1987	GLACIER TRUCKING	Erie	BUFFALO	206 SCOTT STREET
3.	8705029	09/16/1987	NEW ENGLAND MOTOR FREIGHT	Erie	BUFFALO	SCOTT AND CHICAGO STREETS
4.	9106915	09/27/1991	BUFFALO EVENING NEWS	Erie	BUFFALO	SCOTT & WASHINGTON STREET
5.	9608315	10/03/1996	BUFFALO INNER HARBOR	Erie	BUFFALO	MAIN SCOTT STREETS
6.	9608548	10/08/1996	TANK IN CITY STREET	Erie	BUFFALO	MAIN BETWEEN PERRY-SCOTT
7.	9706626	09/03/1997	BUFFALO NEWS TANK	Erie	BUFFALO	SCOTT AND WASHINGTON
8.	0075011	04/10/2000	NFTA BUS	Erie	BUFFALO	WASHINGTON, SCOTT, MAIN S
9.	0075529	12/12/2000	WEBSTER BLOCK	Erie	BUFFALO	MAIN PERRY WASHING SCOTT
10.	0700150	04/05/2007	POLE#237	Erie	BUFFALO	240 SCOTTS STREET
11.	1302102	05/30/2013	HYDRAULIC SPILL	Erie	BUFFALO	SCOTT ST
12.	1403250	06/25/2014	IN STREET	Erie	BUFFALO	1 NEWS PLAZA @ SCOTT ST.
13.	1503227	06/23/2015	TRANSFORMER VAULT 35-95	Erie	BUFFALO	SCOTT ST & WASHINGTON ST

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 207 Rows: 1 to 50

Export XLS | Export CSV | First 50 | Previous 50 | Next 50 | Last 50

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
1.	8602203	07/02/1986	NATIONAL FINISHING CORP.	Erie	BUFFALO	2929 MAIN ST.
2.	8706241	01/23/1987	SUNY AT BUFFALO	Erie	BUFFALO	MAIN STREET
3.	8606621	01/27/1987	NY TELEPHONE	Erie	BUFFALO	2743 MAIN STREET
4.	8607168	02/24/1987	A.R.G. TRUCKING CO.	Erie	BUFFALO	MAIN AND NORTH ST.
5.	8607447	03/09/1987	SUNOCO SERVICE STATION	Erie	BUFFALO	2516 MAIN STREET
6.	8702468	06/23/1987	SOUTHLAND CORP. 7-ELEVEN	Erie	BUFFALO	MAIN STREET AT WINDERMERE
7.	8703093	07/17/1987	DONAVAN BUILDING	Erie	BUFFALO	125 MAIN STREET
8.	8703360	07/24/1987	DIAL CLEANER	Erie	BUFFALO	2496 MAIN STREET
9.	8705066	09/16/1987	SISTER'S HOSPITAL	Erie	BUFFALO	2157 MAIN STREET
10.	8708684	01/12/1988	MOBIL	Erie	BUFFALO	MAIN & KENMORE
11.	8708903	01/19/1988	FOREST LAWN CEMETARY	Erie	BUFFALO	1994 MAIN STREET
12.	8709725	02/17/1988	PETROLEUM SALES & SERVICE	Erie	BUFFALO	2603 MAIN STREET
13.	8803675	07/27/1988	FLYNN'S BAR AND GRILL	Erie	BUFFALO	815 MAIN STREET
14.	8803956	08/04/1988	ARG TRUCKING	Erie	BUFFALO	1038 MAIN STREET
15.	8805107	09/13/1988	NYSDOT DONOVAN BLDG.	Erie	BUFFALO	125 MAIN STREET
16.	8806781	11/14/1988	PHYSICANS IMAGING	Erie	BUFFALO	979 MAIN STREET
17.	8807218	12/01/1988	SCHMIDTS AUTOBODY & GLASS	Erie	BUFFALO	740 MAIN STREET
18.	8807560	12/14/1988	M J GRASS SCREW MACHINE	Erie	BUFFALO	1233 MAIN STREET
19.	8808014	01/05/1989	NIRELLI'S GULF STATION	Erie	BUFFALO	1038 MAIN & NORTH
20.	8900482	04/15/1989	NAVAL PARK	Erie	BUFFALO	MAIN STREET
21.	8901121	05/04/1989	DONAVAN OFFICE BLDG	Erie	BUFFALO	MAIN STREET

22.	8903195	06/26/1989	OIL FROM BURNT OUT BLDG	Erie	BUFFALO	3160 MAIN STREET
23.	8904258	07/29/1989	BAD GASOLINE	Erie	BUFFALO	MAIN STREET
24.	8907967	11/10/1989	CITY OF BUFFALO	Erie	BUFFALO	MAIN AND CARLTON STREETS
25.	8908322	11/20/1989	MAIN - SUMMER CORPORATION	Erie	BUFFALO	MAIN & SUMMER STREETS
26.	8909295	12/22/1989	MARINE MIDLAND BANK	Erie	BUFFALO	200 MAIN STREET
27.	8911108	02/22/1990	WENDY,S	Erie	BUFFALO	MAIN AND NORTH STREETS
28.	9004455	07/23/1990	MEINEKE MUFFLER	Erie	BUFFALO	MAIN & FILMORE
29.	9004852	08/01/1990	NYS UNIVERSITY AT BUFFALO	Erie	BUFFALO	3435 MAIN STREET
30.	9100320	04/08/1991	G&E MANAGEMENT	Erie	BUFFALO	1233 MAIN ST
31.	9105057	08/10/1991	PERKINS RESTAURANT	Erie	BUFFALO	4445 MAIN STREET
32.	9106228	09/05/1991	AMERICANA	Erie	BUFFALO	MAIN STREET
33.	9106713	09/21/1991	GARY LOWD PROPERTY	Erie	BUFFALO	1298 MAIN STREET
34.	9110007	12/13/1991	GOODYEAR REPAIR	Erie	BUFFALO	MAIN STREET
35.	9201458	05/05/1992	KEY TECH FINISHING	Erie	BUFFALO	2929 MAIN STREET
36.	9203981	07/07/1992	KEY-TECH FINISHING	Erie	BUFFALO	2929 MAIN STREET
37.	9204066	07/08/1992	TRI-MAIN INC	Erie	BUFFALO	2495 MAIN STREET
38.	9204557	07/20/1992	DELTASONIC	Erie	BUFFALO	1264 MAIN STREET
39.	9205780	08/18/1992	SISTERS HOSPITAL	Erie	BUFFALO	2157 MAIN STREET
40.	9207319	09/18/1992	MOBIL OIL 08-HA1	Erie	BUFFALO	3514 MAIN ST & KENMORE AV
41.	9208505	10/21/1992	TANKS 3080 MAIN STREET	Erie	BUFFALO	3080 MAIN STREET
42.	9208506	10/21/1992	MARK SCOFILL	Erie	BUFFALO	3080 MAIN STREET
43.	9208731	10/28/1992	SISTERS HOSPITAL	Erie	BUFFALO	2157 MAIN STREET
44.	9210346	12/03/1992	DELAWARE NORTH, INC.	Erie	BUFFALO	438 MAIN STREET
45.	9211094	12/23/1992	7-ELEVEN STORE #22491	Erie	BUFFALO	3488 MAIN STREET
46.	9213701	03/12/1993	ENGINE #16 1416 MAIN	Erie	BUFFALO	1416 MAIN ST. AT UTICA
47.	9300772	04/14/1993	VICTOR'S MOTORS	Erie	BUFFALO	MAIN STREET
48.	9303066	06/04/1993	KURK FUEL OIL CO.	Erie	BUFFALO	125 MAIN STREET
49.	9303063	06/07/1993	PATTERSON & STEPHENS	Erie	BUFFALO	MAIN & COURT STREETS
50.	9306837	09/03/1993	NCB GREETING UST	Erie	BUFFALO	1700 MAIN STREET

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 207 Rows: 51 to 100

Export XLS | Export CSV | First 50 | Previous 50 | Next 50 | Last 50

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
51.	9307528	09/21/1993	UB 3435 MAIN STREET	Erie	BUFFALO	3435 MAIN STREET
52.	9307616	09/22/1993	NYSOGS - DONOVAN BUILDING	Erie	BUFFALO	125 MAIN STREET
53.	9308036	09/30/1993	NFTA MAIN AND MICHIGAN	Erie	BUFFALO	MAIN & MICHIGAN
54.	9311422	12/22/1993	ROADWAY TRUCKING	Erie	BUFFALO	1404 MAIN STREET
55.	9311640	12/30/1993	CUMBERLAND FARMS/GULF	Erie	BUFFALO	1038 MAIN STREET
56.	9314017	02/23/1994	PRECISION TUNE	Erie	BUFFALO	3043 MAIN STREET
57.	9315020	03/23/1994	FOAM IN CREEK	Erie	BUFFALO	GERMAIN STREET
58.	9401346	04/27/1994	SAND'S AUTO GLASS	Erie	BUFFALO	1608 MAIN STREET
59.	9406282	08/08/1994	NIAGARA MOHAWK TRANSFORME	Erie	BUFFALO	1031 MAIN STREET
60.	9406640	08/16/1994	NIAGARA MOHAWK 1752R	Erie	BUFFALO	MAIN AT LAYFAYETTE
61.	9409377	10/13/1994	STRENG OLDSMOBILE	Erie	BUFFALO	2365 MAIN STREET
62.	9500234	04/03/1995	OIL AT HIGH STREET	Erie	BUFFALO	999 MAIN AND 24 HIGH
63.	9501367	05/01/1995	BASIL FORD	Erie	BUFFALO	3484 MAIN STREET
64.	9505378	07/31/1995	ASBESTOS DUMPING	Erie	BUFFALO	2885 MAIN STREET
65.	9506028	08/16/1995	LEASEWAY TRANSPORT	Erie	BUFFALO	2421 EAST MAIN STREET
66.	9506395	08/23/1995	OIL ON GERMAIN STREET	Erie	BUFFALO	145 GERMAIN STREET
67.	9506765	09/01/1995	ST. JOSEPH UNIV. PARISH	Erie	BUFFALO	3269 MAIN STREET
68.	9508300	10/05/1995	BUFFALO GENERAL HOSPITAL	Erie	BUFFALO	999 MAIN STREET

69.	9514250	02/06/1996	FORMER BASIL FORD	Erie	BUFFALO	MAIN & WINDEMERE AVENUE
70.	9514248	02/07/1996	BASIL FORD	Erie	BUFFALO	MAIN STREET AT WINDEMERE
71.	9603069	06/04/1996	SAINT VINCENT DEPAUL	Erie	BUFFALO	1298 MAIN ST AT BRYANT
72.	9605338	07/25/1996	OIL CHANGING IN STREET	Erie	BUFFALO	MAIN ST AND WEST DELAVAN
73.	9605608	07/31/1996	TRUCK ACCIDENT SPILL	Erie	BUFFALO	I290 UNDER MAIN ST BRIDGE
74.	9607732	09/19/1996	MOBIL OIL 08-D5Y	Erie	BUFFALO	MAIN STREET AT WINSPEAR
75.	9608221	10/02/1996	CANISTERS - NAVAL PARK	Erie	BUFFALO	MAIN STREET
76.	9608315	10/03/1996	BUFFALO INNER HARBOR	Erie	BUFFALO	MAIN SCOTT STREETS
77.	9608548	10/08/1996	TANK IN CITY STREET	Erie	BUFFALO	MAIN BETWEEN PERRY-SCOTT
78.	9608662	10/10/1996	SISTERS HOSPITAL	Erie	BUFFALO	2157 MAIN STREET
79.	9613078	02/04/1997	CUMBERLAND FARMS	Erie	BUFFALO	1038 MAIN STREET
80.	9702110	05/19/1997	AMERICAN HOUSEHOLD WAREHO	Erie	BUFFALO	1665 MAIN STREET
81.	9703107	06/11/1997	AUTO ZONE	Erie	BUFFALO	1608 MAIN STREET
82.	9704113	07/03/1997	NFTA	Erie	BUFFALO	MAIN AND MICHIGAN STREETS
83.	9704655	07/15/1997	NFTA BUS	Erie	BUFFALO	MAIN STREET NEAR PARKSIDE
84.	9705897	08/15/1997	NIAGARAMO/BRYANT STRATON	Erie	BUFFALO	1028 MAIN STREET
85.	9707872	10/03/1997	MID CITY OFFICE EQUIPMENT	Erie	BUFFALO	1220 MAIN STREET
86.	9712030	01/28/1998	VALUE MUFFLER/BENDERSON	Erie	BUFFALO	MAIN AND FILLMORE
87.	9712856	02/18/1998	U-HAUL	Erie	BUFFALO	1748 MAIN STREET
88.	9712987	02/20/1998	SHEA'S PERFORMING ARTS	Erie	BUFFALO	646 MAIN STREET
89.	9714553	03/31/1998	NFTA - COLD SPRING GARAGE	Erie	BUFFALO	MAIN & MICHIGAN
90.	9802175	05/18/1998	DUMPING AT NAVAL PARK	Erie	BUFFALO	MAIN STREET

91.	9802598	05/29/1998	VEHICLE AT DONOVAN BLDG	Erie	BUFFALO	125 MAIN STREET
92.	9802624	05/29/1998	DEPENDABLE CAB	Erie	BUFFALO	757 MAIN STREET
93.	9805091	07/23/1998	BENDERSON DEVELOPEMENT	Erie	BUFFALO	MAIN AT FILLMORE
94.	9806277	08/20/1998	TANKS AT BRAUN CADILLAC	Erie	BUFFALO	2421 MAIN STREET
95.	9808822	10/15/1998	TRUCK AT WILLIAMS GOLD	Erie	BUFFALO	2978 MAIN STREET
96.	9875162	11/02/1998	NFTA	Erie	BUFFALO	MAIN AND MICHIGAN
97.	9875355	01/21/1999	DONOVAN STATE BUILDING	Erie	BUFFALO	125 MAIN STREET
98.	9875366	01/28/1999	FRONTIER BUSINESS SOLUTIO	Erie	BUFFALO	2311 MAIN STREET
99.	9875420	02/24/1999	NFTA BUS GARAGE	Erie	BUFFALO	MAIN & MICHIGAN
100.	9875496	03/30/1999	BRAUN CADILLAC (FORMER)	Erie	BUFFALO	2421 MAIN STREET

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NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 207 Rows: 101 to 150

Export XLS | Export CSV | First 50 | Previous 50 | Next 50 | Last 50

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
101.	9975115	05/12/1999	DEMOLISHED BUILDING	Erie	BUFFALO	MAIN AND EAST TUPPER
102.	9975173	06/07/1999	RADIOACTIVE CONTAINERS	Erie	BUFFALO	HUMBOLDT AND MAIN STREET
103.	9902593	06/07/1999	RADIOACTIVE CONTAINERS	Erie	BUFFALO	HUMBOLDT AND MAIN STREET
104.	9975238	06/23/1999	FORMER AUTO REPAIR SHOP	Erie	BUFFALO	1458 MAIN STREET
105.	9975260	07/02/1999	SCHWEBEL BREAD TRUCK	Erie	BUFFALO	AMHERST AND MAIN STREETS
106.	9975403	09/10/1999	STRENG OLDSMOBILE	Erie	BUFFALO	2365 MAIN STREET
107.	9906970	09/11/1999	DELTA SONIC	Erie	BUFFALO	1264 MAIN STREET
108.	9975524	11/17/1999	BUFFALO SPEEDOMETER	Erie	BUFFALO	1487 MAIN STREET
109.	9975698	03/03/2000	AMERICAN HOUSEHOLD STORAG	Erie	BUFFALO	1665 MAIN STREET
110.	9975718	03/15/2000	EMPIRE LOAN & PAWN	Erie	BUFFALO	1570 MAIN STREET
111.	0075011	04/10/2000	NFTA BUS	Erie	BUFFALO	WASHINGTON, SCOTT, MAIN S
112.	0075145	06/02/2000	BUFFALO FIRE HOUSE #34	Erie	BUFFALO	MAIN STREET & MERCER AVE
113.	0075177	06/20/2000	SUNY AT BUFFALO CAMPUS	Erie	BUFFALO	3435 MAIN STREET
114.	0005996	08/19/2000	AUTO AT MOBIL STATION	Erie	BUFFALO	3198 MAIN STREET
115.	0075377	09/19/2000	CAB DRIVERS WANTED	Erie	BUFFALO	1440-1444 MAIN STREET
116.	0007497	09/26/2000	NYSDOT PROJECT/TANK	Erie	BUFFALO	MAIN ST & HUMBOLDT PKWY
117.	0075518	12/07/2000	C-N-N AUTOMOTIVE	Erie	BUFFALO	1593 MAIN STREET
118.	0075529	12/12/2000	WEBSTER BLOCK	Erie	BUFFALO	MAIN PERRY WASHING SCOTT
119.	0075537	12/22/2000		Erie	BUFFALO	1593 MAIN ST

			CNN AUTOMOTIVE SRV			
120.	0175129	06/04/2001	MOPED REPAIR SHOP	Erie	BUFFALO	753 MAIN STREET
121.	0102449	06/04/2001	CONSTRUCTION SITE	Erie	BUFFALO	655 MAIN ST
122.	0175135	06/07/2001	ST. AUGUSTINE CENTER	Erie	BUFFALO	1437 MAIN ST
123.	0175137	06/08/2001	PROPANE	Erie	BUFFALO	3060 MAIN STREET
124.	0175280	08/23/2001	CAO DART	Erie	BUFFALO	1237 MAIN STREET
125.	0175310	09/13/2001	OFFICE BUILDING	Erie	BUFFALO	600 MAIN ST./AT CHIPPEWA
126.	0107616	10/25/2001	BUFFALO NEWS	Erie	BUFFALO	218 MAIN ST
127.	0275117	06/03/2002	IFO MAIN OPTICAL	Erie	BUFFALO	MAIN & WINSPEAR
128.	0275347	09/30/2002	TUFF KOTE - I190	Erie	BUFFALO	I190 OVER MAIN ST
129.	0275422	11/25/2002	ELLICOTT SQUARE BLDG	Erie	BUFFALO	295 MAIN STREET
130.	0211793	02/28/2003	BURGER BUILDING	Erie	BUFFALO	500 MAIN STREET
131.	0375429	12/18/2003	MCKAY HEATING PLANT	Erie	BUFFALO	3545 MAIN ST.
132.	0375474	02/17/2004	BUFFALO MUNICIPAL HOUSING	Erie	BUFFALO	167 W. HUMBOLDT @ MAIN
133.	0402215	05/28/2004	FORMER AM&A'S BUILDING	Erie	BUFFALO	377 MAIN ST
134.	0480102	10/18/2004	DRUMS	Erie	BUFFALO	1420 MAIN STREET
135.	0485213	11/23/2004	ELBER'S LANDSCAPING	Erie	BUFFALO	2918 MAIN STREET
136.	0485256	12/01/2004	ROW	Erie	BUFFALO	MAIN AND KENMORE
137.	0485354	12/22/2004	FORMER SARA BETH BUILDING	Erie	BUFFALO	1219-1233 MAIN STREET
138.	0485478	01/26/2005	FORMER SARABETH BLDG	Erie	BUFFALO	1219-1233 MAIN AND
139.	0500859	04/20/2005	AGASSIZ HOLDINGS INC	Erie	BUFFALO	1235 - 1245 MAIN STREET
140.	0501616	05/10/2005	NIMO VAULT	Erie	BUFFALO	MAIN STREET
141.	0551382	12/13/2005	EXXONMOBIL	Erie	BUFFALO	3198 MAIN STREET
142.	0600379	04/11/2006	ARTSPACE	Erie	BUFFALO	1219-1233 MAIN STREET
143.	0650660	07/20/2006	UB - SOUTH CAMPUS	Erie	BUFFALO	MAIN
144.	0608232	10/18/2006	NFTA PARKING LOT	Erie	BUFFALO	MAIN/ LASALLE AVE
145.	0608250	10/18/2006	BUFFALO CEMENT COMPANY	Erie	BUFFALO	MAIN STREET POLE # 242
146.	0750052	04/11/2007		Erie	BUFFALO	1410-1412 MAIN ST

147.	0711200	01/23/2008	FORMER RESTAURANT BIOMEDICAL EDUCATIONAL BU	Erie	BUFFALO 3435 MAIN STREET
148.	0711768	02/07/2008	POLE #2317R	Erie	BUFFALO 2317 MAIN ST.
149.	0802415	06/02/2008	FORMER COMMERCIAL PROPERT	Erie	BUFFALO 1655 MAIN ST
150.	0806072	08/28/2008	DONOVAN STATE OFFICE BLDG	Erie	BUFFALO 125 MAIN ST.

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 207 Rows: 151 to 200

Export XLS | Export CSV | First 50 | Previous 50 | Next 50 | Last 50

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
151.	0809396	11/19/2008	TANK ROOM	Erie	BUFFALO	1264 MAIN ST
152.	0812894	02/27/2009	MEMORIAL AUD	Erie	BUFFALO	MAIN STREET
153.	0813644	03/18/2009	AJ WRIGHT	Erie	BUFFALO	3500 MAIN ST
154.	0814038	03/27/2009	VACANT PARCEL	Erie	BUFFALO	1618 THROUGH 1636 MAIN STREET
155.	0902806	06/09/2009	AD-ART PROCESS CO (PRINTING)	Erie	BUFFALO	1501 MAIN ST
156.	0902966	06/12/2009	MEMORIAL AUDITORIUM	Erie	BUFFALO	MAIN ST
157.	0910964	01/11/2010	COMMERCIAL BUILDING	Erie	BUFFALO	2915 MAIN ST
158.	0913360	03/18/2010	KIMBALL TOWER - UNIV OF BUFFALO SOUTH CAMPUS	Erie	BUFFALO	3435 MAIN ST
159.	1000449	04/12/2010	ROADSIDE	Erie	BUFFALO	MAIN AND WEST WINDSPEAR
160.	1006671	09/20/2010	PRIVATE BUSINESS	Erie	BUFFALO	3982 MAIN STREET
161.	1007254	10/06/2010	IN STREET & PARKING LOT	Erie	BUFFALO	MAIN ST. @ CHIPPIWA
162.	1008285	11/08/2010	NATIONAL GRID UNDER GROUND VAULT	Erie	BUFFALO	COURT STREET AND MAIN
163.	1009861	12/15/2010	VAULT 610	Erie	BUFFALO	MAIN ST & SWAN ST
164.	1100462	04/13/2011	TRANSFORMER 178 @ DELEWARE PARK	Erie	BUFFALO	MAIN WALKING LOOP
165.	1100485	04/14/2011	UNIVERSITY AT BUFFALO- SHERMAN HALL- BASEMENT	Erie	BUFFALO	3435 MAIN ST
166.	1104757	07/26/2011	MAIN ST & BAILEY ST	Erie	BUFFALO	MAIN ST
167.	1201014	05/01/2012	INTERSECTION - VAULT # 23-11	Erie	BUFFALO	MAIN AND SENECA
168.	1204017	07/24/2012	FORMER GAS STATION	Erie	BUFFALO	2516 MAIN ST
169.	1207292	10/24/2012	WEBSTER BLOCK	Erie	BUFFALO	

						75 MAIN ST AT WASHINGTON
170.	1207951	10/31/2012	UNIVERSITY OF BUFFALO	Erie	BUFFALO	3435 MAIN STREET
171.	1214962	01/25/2013	SOIL SAMPLE	Erie	BUFFALO	1516 MAIN ST
172.	1311100	02/25/2014	PARKING LOT	Erie	BUFFALO	1021 MAIN STREET
173.	1311101	02/25/2014	PARKING LOT	Erie	BUFFALO	1031 MAIN STREET
174.	1311297	03/04/2014	FUELING BAY	Erie	BUFFALO	MAIN ST AND MICHIGAN
175.	1312146	03/28/2014	INTERSECTION	Erie	BUFFALO	MAIN ST/LASALLE ST
176.	1402872	06/17/2014	ROAD SIDE	Erie	BUFFALO	1440 MAIN STREET
177.	1403743	07/08/2014	HARBOR CENTER PARKING GARAGE	Erie	BUFFALO	75 MAIN ST
178.	1404247	07/19/2014	TRUCK	Erie	BUFFALO	SWAN STREET /MAIN AND WASHINGTON
179.	1407257	10/11/2014	DELTA SONIC CAR WASH	Erie	BUFFALO	1264 MAIN STREET
180.	1407916	10/31/2014	CANALSIDE	Erie	BUFFALO	130 MAIN ST
181.	1407917	10/31/2014	WITH IN A PIPE CASE	Erie	BUFFALO	130 MAIN STREET
182.	1408808	11/28/2014	COMMERCIAL BUILDINGS	Erie	BUFFALO	1269 THRU 1285 MAIN ST
183.	1410926	02/16/2015	PIKE CO	Erie	BUFFALO	130 MAIN ST
184.	1411342	03/03/2015	STREET	Erie	BUFFALO	3101 MAIN ST
185.	1500185	04/07/2015	BUSINESS/	Erie	BUFFALO	1661 MAIN STREET
186.	1500429	04/14/2015	VAULT #10-82	Erie	BUFFALO	MAIN STREET AND SENECA STREET
187.	1501687	05/14/2015	TRIMAIN CENTER - ELEVATOR SHAFT	Erie	BUFFALO	2495 MAIN ST
188.	1601035	05/01/2016	WALGREENS PARKING LOT	Erie	BUFFALO	3488 MAIN STREET
189.	1601746	05/20/2016	UNDERGROUND	Erie	BUFFALO	377 MAIN STREET
190.	1605165	08/19/2016	U-HAUL CENTER	Erie	BUFFALO	1748 MAIN ST
191.	1700630	04/20/2017	POLE TOP 1420R	Erie	BUFFALO	1430 MAIN ST
192.	1700808	04/26/2017	MAIN ST USED TIRES	Erie	BUFFALO	1699 MAIN ST
193.	1704127	07/26/2017	BUFFALO COLLEGE	Erie	BUFFALO	3435 MAIN ST AT MAIN CIRCLE AND HAYES RD
194.	1704513	08/05/2017	COMMERCIAL	Erie	BUFFALO	888 MAIN ST
195.	1707510	11/04/2017	FRONT YARD	Erie	BUFFALO	1264 MAIN ST
196.	1707723	11/12/2017	FRANKS CONVENIENT MOBIL GAS STATION	Erie	BUFFALO	3198 MAIN ST
197.	1707788	11/14/2017	LAND AND SEWER	Erie	BUFFALO	3198 MAIN ST

198.	1710266	02/13/2018	PAVEMENT	Erie	BUFFALO 22 GERMAIN ST
199.	1802722	06/08/2018	ON SITE	Erie	BUFFALO 1091 MAIN ST
200.	1804769	07/31/2018	TANK PULL	Erie	BUFFALO 3149 MAIN STREET

Refine This Search

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Spill Incidents Database Search Results

Record Count: 207 Rows: 158 to 207

Export XLS | Export CSV | First 50 | Previous 50 | Next 50 | Last 50

	Spill Number	Date Spill Reported	Spill Name	County	City/Town	Address
158.	0913360	03/18/2010	KIMBALL TOWER - UNIV OF BUFFALO SOUTH CAMPUS	Erie	BUFFALO	3435 MAIN ST
159.	1000449	04/12/2010	ROADSIDE	Erie	BUFFALO	MAIN AND WEST WINDSPEAR
160.	1006671	09/20/2010	PRIVATE BUSINESS	Erie	BUFFALO	3982 MAIN STREET
161.	1007254	10/06/2010	IN STREET & PARKING LOT	Erie	BUFFALO	MAIN ST. @ CHIPPIWA
162.	1008285	11/08/2010	NATIONAL GRID UNDER GROUND VAULT	Erie	BUFFALO	COURT STREET AND MAIN
163.	1009861	12/15/2010	VAULT 610	Erie	BUFFALO	MAIN ST & SWAN ST
164.	1100462	04/13/2011	TRANSFORMER 178 @ DELEWARE PARK	Erie	BUFFALO	MAIN WALKING LOOP
165.	1100485	04/14/2011	UNIVERSITY AT BUFFALO- SHERMAN HALL- BASEMENT	Erie	BUFFALO	3435 MAIN ST
166.	1104757	07/26/2011	MAIN ST & BAILEY ST	Erie	BUFFALO	MAIN ST
167.	1201014	05/01/2012	INTERSECTION - VAULT # 23-11	Erie	BUFFALO	MAIN AND SENECA
168.	1204017	07/24/2012	FORMER GAS STATION	Erie	BUFFALO	2516 MAIN ST
169.	1207292	10/24/2012	WEBSTER BLOCK	Erie	BUFFALO	75 MAIN ST AT WASHINGTON
170.	1207951	10/31/2012	UNIVERSITY OF BUFFALO	Erie	BUFFALO	3435 MAIN STREET
171.	1214962	01/25/2013	SOIL SAMPLE	Erie	BUFFALO	1516 MAIN ST
172.	1311100	02/25/2014	PARKING LOT	Erie	BUFFALO	1021 MAIN STREET
173.	1311101	02/25/2014	PARKING LOT	Erie	BUFFALO	1031 MAIN STREET
174.	1311297	03/04/2014	FUELING BAY	Erie	BUFFALO	MAIN ST AND MICHIGAN
175.	1312146	03/28/2014	INTERSECTION	Erie	BUFFALO	MAIN ST/LASALLE ST
176.	1402872	06/17/2014	ROAD SIDE	Erie	BUFFALO	1440 MAIN STREET

177.	1403743	07/08/2014	HARBOR CENTER PARKING GARAGE	Erie	BUFFALO	75 MAIN ST
178.	1404247	07/19/2014	TRUCK	Erie	BUFFALO	SWAN STREET /MAIN AND WASHINGTON
179.	1407257	10/11/2014	DELTA SONIC CAR WASH	Erie	BUFFALO	1264 MAIN STREET
180.	1407916	10/31/2014	CANALSIDE	Erie	BUFFALO	130 MAIN ST
181.	1407917	10/31/2014	WITH IN A PIPE CASE	Erie	BUFFALO	130 MAIN STREET
182.	1408808	11/28/2014	COMMERCIAL BUILDINGS	Erie	BUFFALO	1269 THRU 1285 MAIN ST
183.	1410926	02/16/2015	PIKE CO	Erie	BUFFALO	130 MAIN ST
184.	1411342	03/03/2015	STREET	Erie	BUFFALO	3101 MAIN ST
185.	1500185	04/07/2015	BUSINESS/	Erie	BUFFALO	1661 MAIN STREET
186.	1500429	04/14/2015	VAULT #10-82	Erie	BUFFALO	MAIN STREET AND SENECA STREET
187.	1501687	05/14/2015	TRIMAIN CENTER - ELEVATOR SHAFT	Erie	BUFFALO	2495 MAIN ST
188.	1601035	05/01/2016	WALGREENS PARKING LOT	Erie	BUFFALO	3488 MAIN STREET
189.	1601746	05/20/2016	UNDERGROUND	Erie	BUFFALO	377 MAIN STREET
190.	1605165	08/19/2016	U-HAUL CENTER	Erie	BUFFALO	1748 MAIN ST
191.	1700630	04/20/2017	POLE TOP 1420R	Erie	BUFFALO	1430 MAIN ST
192.	1700808	04/26/2017	MAIN ST USED TIRES	Erie	BUFFALO	1699 MAIN ST
193.	1704127	07/26/2017	BUFFALO COLLEGE	Erie	BUFFALO	3435 MAIN ST AT MAIN CIRCLE AND HAYES RD
194.	1704513	08/05/2017	COMMERCIAL	Erie	BUFFALO	888 MAIN ST
195.	1707510	11/04/2017	FRONT YARD	Erie	BUFFALO	1264 MAIN ST
196.	1707723	11/12/2017	FRANKS CONVENIENT MOBIL GAS STATION	Erie	BUFFALO	3198 MAIN ST
197.	1707788	11/14/2017	LAND AND SEWER	Erie	BUFFALO	3198 MAIN ST
198.	1710266	02/13/2018	PAVEMENT	Erie	BUFFALO	22 GERMAIN ST
199.	1802722	06/08/2018	ON SITE	Erie	BUFFALO	1091 MAIN ST
200.	1804769	07/31/2018	TANK PULL	Erie	BUFFALO	3149 MAIN STREET
201.	1808921	11/23/2018	GAS STATION	Erie	BUFFALO	1582 MAIN ST
202.	1901415	05/09/2019	UB SOUTH CAMPUS	Erie	BUFFALO	MAIN ST
203.	1903691	07/11/2019	FRONTIER RAILYARD	Erie	BUFFALO	205 REMAIN ST
204.	1904215	07/23/2019	RESIDENTIAL PROPERTY	Erie	BUFFALO	143 GERMAIN STREET
205.	1905307	08/20/2019	COMMERCIAL	Erie	BUFFALO	3171 MAIN ST
206.	1906492	09/25/2019	CONCRETE	Erie	BUFFALO	6 MAIN ST
207.	1908342	11/19/2019	COMMERCIAL	Erie	BUFFALO	3198 MAIN ST

NEW YORK
STATE OF
OPPORTUNITY

Department of
Environmental
Conservation

Revised Part 360 Series
Solid Waste Management Facility Regulations

NYSAR^3 28th Annual Recycling Conference
Otesaga Resort Hotel, Cooperstown, NY
November 9, 2017

David Vitale
Division of Materials Management
NYSDEC

Background

- First major revision in nearly 25 years
- The Part 360 series rulemaking process formally began in February 2016
- Conducted extensive public outreach that included two public comment periods, five public hearings, and more than 25 workshops and technical meetings with stakeholders
- Reviewed and provided responses to thousands of comments.
- The Regulations were published in the State Register and ENB and posted on DEC website on 9/20/17
- **Regulations became effective on 11/4/17**

Section 360.13

Special Requirements for Pre-Determined Beneficial Use of Fill Material

360.13(c) – Exemption of On-Site Reuse of Fill Material

- Materials excavated at a site can be used anywhere on the site in areas of similar **physical** characteristics
- If contaminated material will be used on a site with public access, minimum of 1 foot of clean soil cover must be placed
- Not applicable to Part 375 program sites

360.13(d) – Testing requirements for Fill Material

- All fill material generated in NYC unless:
  - The quantity is less than 10 cubic yards from one site, **and**
  - Does not contain historical evidence of impacts from contamination

- Any fill material outside of NYC that:
  - Exhibits visual or historical evidence of contamination
  - Originates from a site subject to industrial land use
  - If signs of contamination are discovered during excavation

360.13(f) – Acceptable Fill Material Uses

Fill Material Type	Fill Material End Use	Physical Criteria	Maximum Concentration Levels
General Fill	Any setting where the fill material meets the engineering criteria, for use, except: 1. Undeveloped land; and 2. Agricultural crop land.	Only soil, sand, gravel or rock; no non-soil constituents.	Lower of Protection of Public Health-Residential Land Use and Protection of Groundwater in Table 375-6.8(b) of this Title.

360.13(f) – Acceptable Fill Material Uses

Fill Material Type	Fill Material End Use	Physical Criteria	Maximum Concentration Levels
Restricted-Use Fill	For embankments or subgrade in transportation corridors, or on sites where in-situ materials exceed Restricted-Use Fill or Limited-Use Fill criteria. Must be placed above the seasonal high water table.	Up to 40 percent by volume inert, non-putrescible non-soil constituents.	General Fill criteria except that up to 3 mg/kg total benzo (a)pyrene (BAP) equivalent. No detectable asbestos.

360.13(f) – Acceptable Fill Material Uses

Fill Material Type	Fill Material End Use	Physical Criteria	Maximum Concentration Levels
Limited-Use Fill	Under foundations and pavements above the seasonal high water table	No volume limit for inert, non-putrescible non-soil constituents.	General Fill criteria, except up to Protection of Public Health-Commercial SCOs for metals; up to 3 mg/kg benzo(a)pyrene equivalent is allowed. No detectable asbestos.

Department of Environmental Conservation

Division of Environmental Remediation

6 NYCRR PART 375

Environmental Remediation Programs

Subparts 375-1 to 375- 4 & 375-6

Effective December 14, 2006

New York State Department of Environmental Conservation

TABLE OF CONTENTS

6 NYCRR Part 375
Environmental Remediation Programs

(Statutory Authority: Environmental Conservation Law (ECL) article 1, section 0101; ECL article 27, titles 13 and 14; ECL article 52, title 3; ECL article 56, title 5; ECL article 71, title 36; ECL article 3, section 0301; chapter 1, laws of 2003; chapter 577, laws of 2004 and State Finance Law article 6, section 97-b)

Effective December 14, 2006

Subpart 375-1
General Remedial Program Requirements

375-1.1 Purpose; applicability; construction; abbreviations; and severability.

(a) The purpose of this Part is to provide for the orderly and efficient administration of ECL article 27, titles 13 and 14; ECL article 52, title 3; ECL article 56, title 5; ECL article 71, title 36; ECL article 3, section 0301 and SFL article 6, section 97-b. The requirements set forth in this Part apply to any order, agreement, stipulation or State assistance contract entered into by the Department after the effective date of this Part and all work plans, reports, certificates, and other remedial program documents approved, accepted, or issued by the Department on or after the effective date of this Part.

(b) This Part applies to the following:

(1) The development and implementation of remedial programs for inactive hazardous waste disposal sites, specifically under subpart 375-2, including, but not limited to, sites listed in the Registry which are either on the national priorities list (NPL) or are being addressed by the department of defense or the department of energy.

(2) The development and implementation of remedial programs for brownfield sites, specifically under subpart 375-3.

(3) The development and implementation of remedial programs for environmental restoration sites, specifically under subpart 375-4.

(4) The soil cleanup objectives for remedial programs, specifically under subpart 375-6.

(c) This Part is intended to promote the public good consistent with the policy of this State set out at ECL 1-0101 and accordingly this Part shall be construed so as to achieve that objective. As used herein, the

singular includes the plural. Any reference herein to a particular provision of any State statute or regulation shall be deemed a reference to such provision as it may hereafter be amended or redesignated.

(d) This subpart sets forth the general requirements that are common to the implementation of remedial programs under subparts 375-2, 375-3 and 375-4. Specific requirements which apply in addition to these general requirements are set forth in subparts 375-2, 375-3 and 375-4. If there is a conflict, this subpart is superceded by any inconsistent provision of subparts 375-2, 375-3 and 375-4.

(e) Abbreviations:

(1) Statutes:

(i) "CERCLA" means the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, 42 USC section 9601, *et seq.*;

(ii) "CPLR" means the Civil Practice Law and Rules;

(iii) "ECL" means the Environmental Conservation Law;

(iv) "EL" means the Executive Law;

(v) "GML" means the General Municipal Law;

(vi) "GOL" means the General Obligations Law;

(vii) "NL" means the Navigation Law;

(viii) "NPCL" means the Not-for-Profit Corporation Law;

(ix) "PHL" means the Public Health Law;

(x) "RPL" means the Real Property Law;

(xi) "SFL" means the State Finance Law;

(xii) "SARA" means the Superfund Amendments and Reauthorization Act of 1986, PL 99-499 Stat 1613, *et seq.*;

(xiii) "USC" or "USCA" means United States Code.

(2) Regulations:

(i) "6 NYCRR" means title 6 of the Official Compilation of New York Codes, Rules and Regulations;

(ii) "10 NYCRR" means title 10 of the Official Compilation of New York Codes, Rules and Regulations;

(iii) "19 NYCRR" means title 19 of the Official Compilation of New York Codes, Rules and Regulations.

(f) If any provision of this Part or its application to any particular person or circumstance is held invalid, the remainder of this Part and its application to other persons and circumstances shall not be affected thereby.

(g) The following documents have been incorporated by reference and filed with the Department of State. The documents are also available for inspection and copying at the Department of Environmental Conservation office at 625 Broadway, Albany, New York, 12233-7010:

(1) Standards E1527-05 (2005) and E1527-97 (1997), published by ASTM International, Post Office Box C700, West Conshohocken, Pennsylvania, 19428-2959; and

(2) The National Contingency Plan (NCP), Title 40 of the Code of Federal Regulations (CFR) Part 300, which is available from the United States Environmental Protection Agency (EPA) on its website at http://www.epa.gov.

375-1.2 Definitions.

The definitions set forth in ECL 27-1301; ECL 27-1405; and ECL 56-0502, some of which are clarified in this section, and the additional definitions set forth in this section, shall apply to these regulations. Certain definitions which apply only to the individual programs are set forth in subparts 375-2, 375-3, 375-4 and 375-6 of this Part respectively.