



Strong Advocates, Effective Solutions, Integrated Implementation

October 2, 2018

Dr. Fadi Dagher
D&S Capital Real Estate II, LLC
50 Lakefront Boulevard, Suite 103
Buffalo, New York 14202

**Re: Phase II Environmental Investigation
1155 Main Street (Site)
Buffalo, New York**

Dear Dr. Dagher:

TurnKey Environmental Restoration, LLC (TurnKey) has prepared this letter to summarize the results of the Phase II Environmental Investigation (Phase II) activities at the above referenced Site owned by D&S Capital Real Estate II, LLC (D&S) located at the corner of Main Street and Dodge Street, Buffalo, New York (Site; see Figures 1 and 2). The primary purpose of the Phase II was to evaluate potential environmental impacts at the Site associated with historic uses. A previous Phase I Environmental Site Assessment¹ completed at the 1159 Main Street portion of the Site (further discussed below) identified historic site usage as a gasoline filling station with underground tanks and auto repair.

The secondary purpose was to evaluate whether the Site may be eligible for admission to the New York Brownfield Cleanup Program (BCP) if environmental impacts were identified. We understand that the planned redevelopment includes a 5-story mixed use building with student housing and minor commercial space on the first floor.

D&S Capital Real Estate II, LLC applied to combine the three (3) parcels addressed 1159 Main Street, 11 Dodge Street, and 19 Dodge Street parcels into a single separate legal tax parcel that is addressed 1155 Main Street. The City of Buffalo Department of Assessment & Taxation issued a Pre-Approval for Combination of Parcel on September 25, 2018 which has also received Planning Board approval. The combined parcel will appear on the City of Buffalo's preliminary tax roll on December 1, 2018.

¹ "Phase I Environmental Site Assessment, Sleep Inn, 1159 Main Street, Buffalo, New York". Prepared for Sleep Inn by Empire Geo-Services Inc. January 2014.

Soil/Fill Sampling

The Phase II investigation activities consisted of 14 direct-push soil borings (SBs), 18 test pits (TPs) and three (3) surface soil (SS) samples. The locations are shown on attached Figure 2.

The direct-push SBs were advanced using a track mounted drill rig (Geoprobe® 6600DT) equipped with a 1.5-inch diameter macrocore sampler 4-feet in length. The 4-foot sample cores were retrieved from the boring locations to allow for field characterization of the subsurface soil/fill and to collect of soil/fill samples by TurnKey's geologist. The SBs were advanced to depths ranging from 12 to 16 to feet below ground surface (fbgs). Borings were advanced into native soils. Macrocore sample recovery was poor during the soil borings as less than 50% recovery was noted at most of the sample intervals.

The TPs were completed using a track-mounted mini-excavator (Kubota KX040). The TPs were approximately 2 to 4 feet wide, 6 to 12 feet long and ranged in depth from 4 to 8.5 feet below ground surface (fbgs). Excavated soil/fill was brought to the ground surface for field characterization of the subsurface soil/fill and to collect of soil/fill samples by TurnKey's geologist. Soil/fill generated during the test pits were placed on the ground adjacent to the test pit location and used to backfill the excavations back to ground surface.

Three (3) SS samples were collected by TurnKey with a 3-inch diameter stainless steel barrel auger. The hand auger was advance to 2 to 3 inches below the vegetative cover at the sampling locations.

TurnKey personnel made visual and olfactory observations and scanned soil/fill samples retrieved from the investigation locations for total volatile organic vapors with a photoionization detector (PID) that is capable of detecting the presence of contaminants that emit volatile organic compounds (VOCs) such as petroleum products and solvents.

PID measurements were not detected above background (i.e., 0 ppm) at the SBs or TPs except for SB-5, 8 to 12 fbgs which exhibited a field screening result of 3 parts per million (ppm).

Sample Analysis

Table 1 is a summary of the soil/fill samples submitted along with the analysis completed. The soil/fill samples were placed in pre-cleaned laboratory provided sample jars, cooled to 4°C in the field, and transported under chain-of-custody to the laboratory for analysis by Alpha Analytical, Inc. in Westbrough, Massachusetts. Analysis included VOCs via EPA Method 8260, semi-volatile organic compounds (SVOCs) via EPA Method 8270 and metals via EPA Method 6010C/7471B.

TurnKey collected one (1) groundwater sample from a 1-inch diameter temporary microwell (TMW-1) that was installed within SB-9 to a depth of about 12 fbgs. The sample was

analyzed for VOCs via EPA Method 8260. The temporary microwell was removed after the groundwater sample was collected with a polyethylene bailer.

Subsurface Conditions

The subsurface conditions encountered at the Site below the various surface covers (i.e., vegetation, topsoil, asphalt, crushed concrete) consisted of fill material overlying native soil. Table 2 is a summary of the subsurface conditions encountered at the investigation locations. The fill materials encountered varied from brown to dark brown to black sands containing man-made constituents (brick, cinders, glass, concrete, plaster, metal, wire, plastic, etc.) to brown reworked native soil (sand) containing man-made constituents. In general, fill material is present across most of the Site and varies in thickness from 1.5 fbgs to 8 fbgs, with the exception of one (1) location, TP-5, in the northwest portion of the Site. No fill material was encountered at this location.

Groundwater was not encountered during the Phase II, with the exception of SB-9. Saturated conditions were encountered from 8 to 11 fbgs below the fill material present and above the underlying clay and may represent a perched condition.

Soil/Fill Analytical Results

The results of the analytical samples collected and analyzed as part of the Phase II investigation are summarized on Table 3. The laboratory analytical reports are attached.

Based on your planned redevelopment, the applicable soil cleanup objectives (SCOs) would be 6NYCRR Part 375 Restricted-Residential Use Soil Cleanup Objectives (RRSCOs); exceedances of RRSCOs, as well as Commercial SCOs (CSCOs) and Industrial SCOs (ISCOs), were noted during this investigation.

Volatile Organic Compounds

VOCs were detected in three (3) of the four (4) samples analyzed for VOCs during the Phase II. Acetone was detected below its Unrestricted Use Soil Cleanup Objective (USCO) and methylcyclohexane does not have a SCO.

Semi-Volatile Organic Compounds

SVOCs were detected at or above their respective Part 375 RRSCOs (i.e., the applicable SCOs for the intended Site reuse) at six (6) investigation locations, SB-4, SB-10, TP-4, TP-14, and TP-18. The exceedances were identified in the soil/fill material at these locations. These sample locations are shown in red on Figure 2.

- Benzo(a)anthracene exceeded its RRSCO at three (3) locations (SB-4, TP-4, SS-3) and ISCO at one (1) location, TP-18.
- Benzo(a)pyrene exceeded its CSCO at three (3) locations (SB-4, TP-4, SS-3) and ISCO at one (1) location, TP-18.

- Benzo(b)fluoranthene exceeded its RRSCO at five (5) locations (SB-4, SB-10, TP-4, TP-14, and SS-3) and ISCO at one (1) location, TP-18.
- Benzo(k)fluoranthene exceeded its RRSCO at one (1) location, TP-18.
- Chrysene exceeded its RRSCO at one (1) location, TP-18.
- Dibenzo(a,h)anthracene exceeded its ISCO at one (1) location, TP-18.
- Indeno(1,2,3-cd)pyrene exceeded its RRSCO at three (3) locations (TP-4, TP-14, and SS-3) and its ISCO at one (1) location, TP-18.

Metal Analytes

Metal analytes were detected above their respective RRSCOs at four (4) investigation locations, TP-4, TP-15, TP-16, and TP-18.

- Barium exceeded its CSCO at one (1) location, TP-15.
- Chromium exceeded its RRSCO at one (1) location, TP-15.
- Lead exceeded its CSCO at three (3) locations (TP-15, TP-16, and TP-18).
- Nickel exceeded its CSCO at one (1) location, TP-4.

Polychlorinated Biphenyls (PCBs)

PCBs were not detected above method detection limits in the two (2) samples analyzed for PCBs during the Phase II.

Groundwater Analytical Results

One groundwater sample was collected for VOC analysis from TMW-1 installed at SB-9. The results of the sample indicate benzene and acetone were detected above method detection limits but below their respective groundwater standards. Groundwater was not identified at other investigation location and may represent a perched groundwater condition at that location.

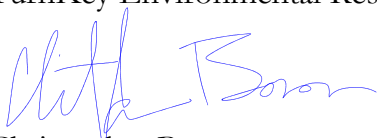
Conclusions

Environmental impacts have been identified at the Site and may be attributed historic Site usage. SVOCs and metals were detected at concentrations above their respective RRSCOs, which are applicable for the intended reuse of the Site. The detected concentrations exceeding the applicable SCOs were detected in the fill material present at the Site. Fill material is present across most of the Site and varies in depth up to 8 fbs. The fill material and any other contaminated material generated during the redevelopment project will require management as contaminated soil.

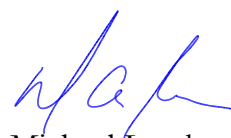
Based on the existing data, which includes SVOC- and metals-contaminated soil/fill at numerous sample locations Site-wide above applicable RRSCOs, as well as CSCOs/ISCOs, the Site is a candidate for the BCP. The Site meets the definition of a BCP site per the current BCP law which states a “brownfield site or site shall mean any real property where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria, or guidance adopted by the department that are applicable based on the reasonably anticipated use of the property, in accordance with applicable regulations.”

Please contact us if you have any questions or require additional information.

Sincerely,
TurnKey Environmental Restoration, LLC



Christopher Boron
Sr. Project Manager



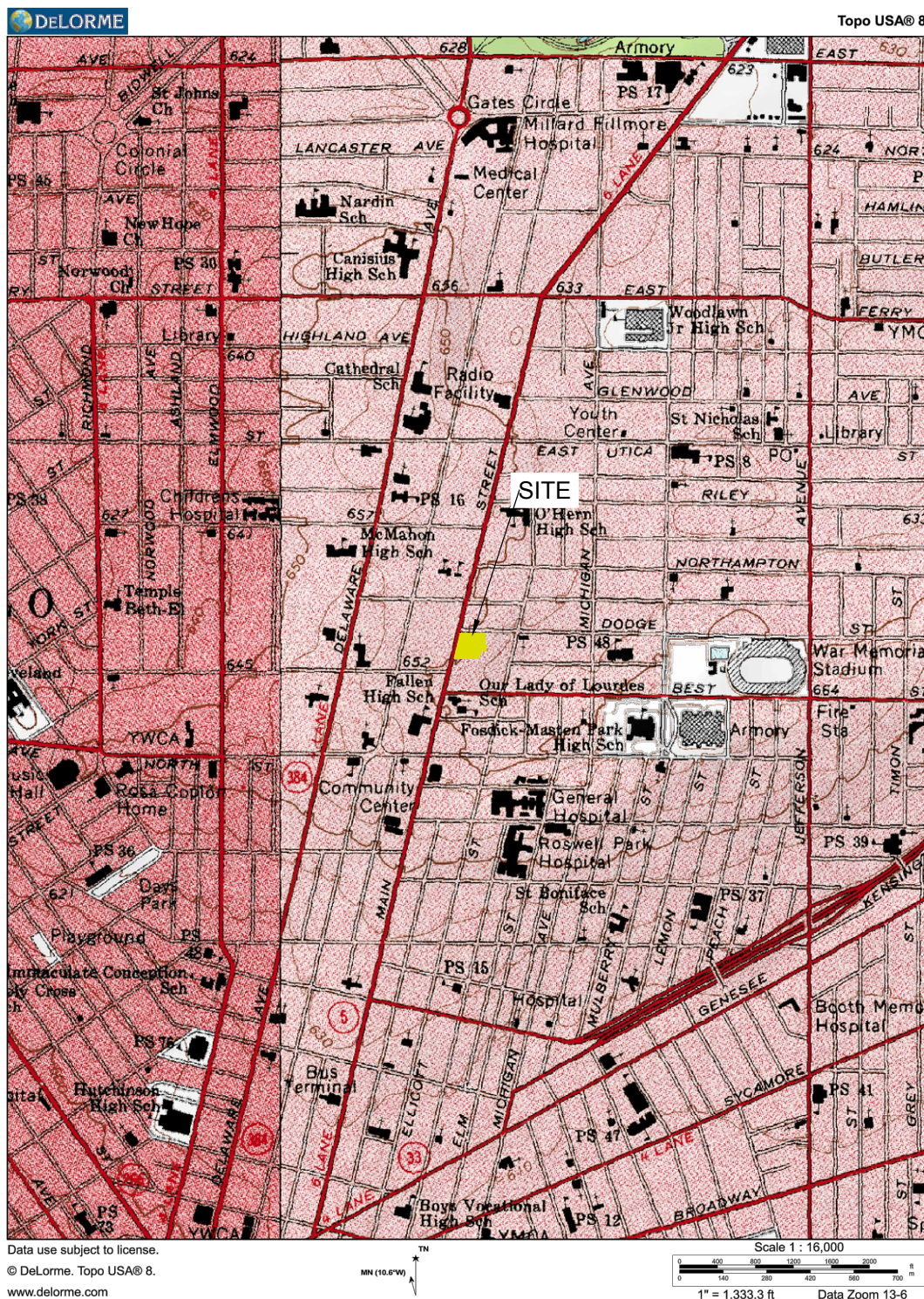
Michael Lesakowski
Principal

Attachments: Figure 1 – Site Location & Vicinity Map
 Figure 2 – Site Plan
 Table 1 – Summary of Phase II Sampling and Analysis Program
 Table 2 – Summary of Subsurface Field Observations
 Table 3 – Summary of Soil/Fill Sample Analytical Results
 Analytical Data Packages

File: 0371-018-001

FIGURES

FIGURE 1



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SITE LOCATION AND VICINITY MAP

ENVIRONMENTAL SITE INVESTIGATION
11 & 19 DODGE STREET AND 1159 MAIN STREET SITE

BUFFALO, NEW YORK

PREPARED FOR

CEDARLAND DEVELOPMENT GROUP

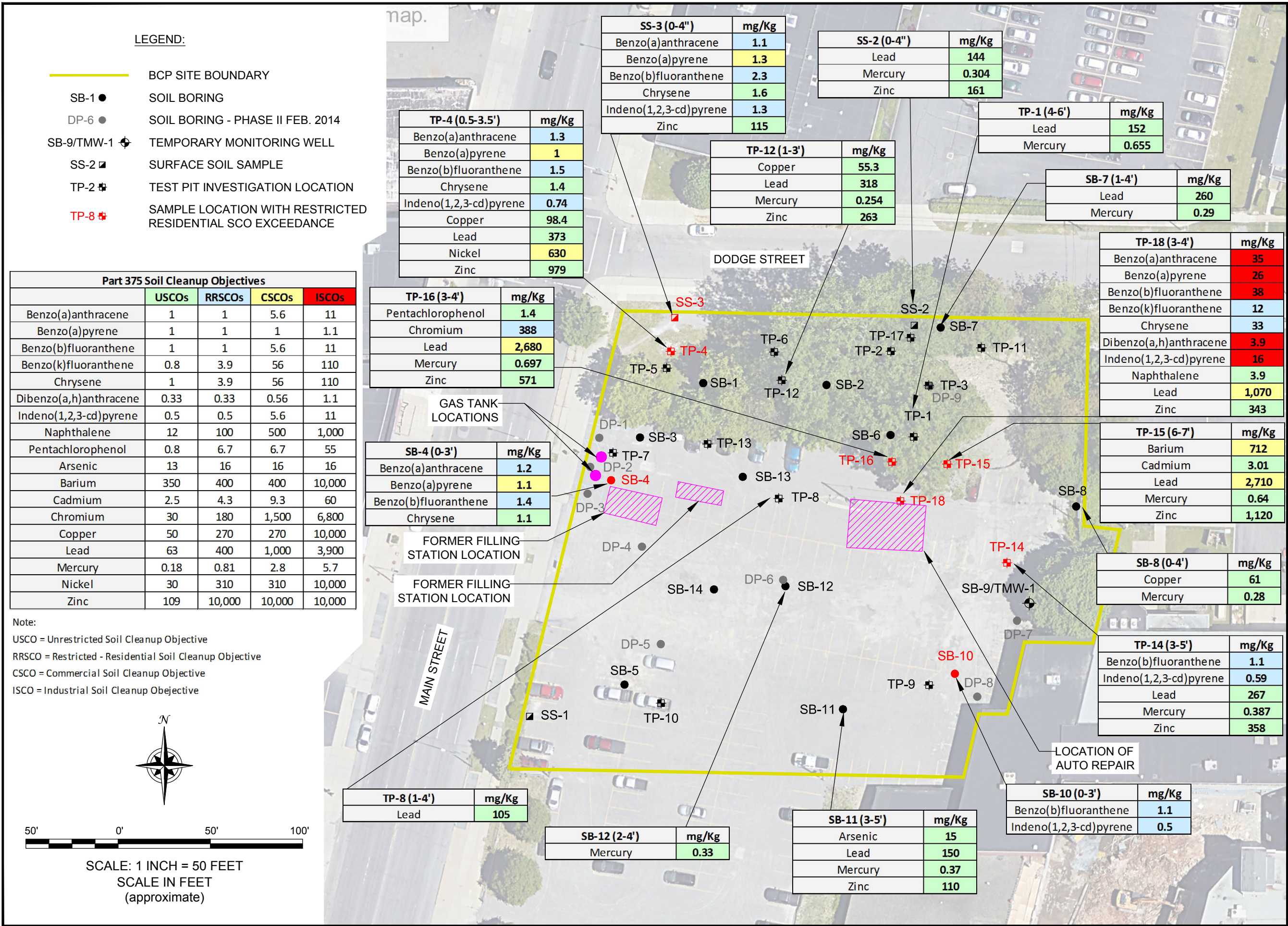
PROJECT NO.: 0371-018-001

DATE: AUGUST 2018

DRAFTED BY: CMC

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INVESTIGATION LOCATIONS & AREAS OF CONCERN

BROWNFIELD CLEANUP PROGRAM APPLICATION

1155 MAIN STREET SITE

PREPARED FOR
D&S CAPITAL REAL ESTATE II, LLC

JOH NO.: 0371-018-002

FIGURE 7

DISCLAIMER:
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TABLES



TABLE 1

**SUMMARY OF SAMPLING AND ANALYSIS PROGRAM
PHASE II ENVIRONMENTAL INVESTIGATION REPORT
11 & 19 DODGE STREET and 1159 MAIN STREET SITE
BUFFALO, NY**

Sample Identifier	Depth Sampled (fbgs)	Analysis				Date Sampled
		TCL VOCs Method 8260C	TCL SVOCs Method 8270D	Part 375 Metals List Methods 6010C/7471 B 9010C/9012 B	PCBs Method 8082A	
Surface Soil/Fill						
SS-1	0 to 0.3		X	X		08/08/2018
SS-2	0 to 0.3		X	X		08/08/2018
SS-3	0 to 0.3		X	X		08/08/2018
Subsurface Soil/Fill						
SB-1	1 to 4		X			02/18/2016
SB-4	0 to 3		X			02/18/2016
SB-5	8 to 12	X				02/18/2016
SB-7	1 to 4		X	X		02/18/2016
SB-8	0 to 4		X	X		02/18/2016
SB-9	5 to 8	X				02/18/2016
SB-10	0 to 3		X	X		02/18/2016
SB-11	3 to 5		X	X		02/18/2016
SB-12	2 to 4	X	X	X	X	02/18/2016
SB-14	0 to 2	X			X	02/18/2016
TP-1	4 to 6		X	X		08/08/2018
TP-4	0.5 to 3.5		X	X		08/08/2018
TP-8	1 to 4		X	X		08/08/2018
TP-12	1 to 3		X	X		08/08/2018
TP-14	3 to 5		X	X		08/08/2018
TP-15	6 to 7		X	X		08/23/2018
TP-16	3 to 4		X	X		08/23/2018
TP-18	3 to 4		X	X		08/23/2018
Groundwater						
TMW-1 (SB-9)	--	X				02/18/2016

Notes:

fbgs = feet below ground surface.

TCL = Target Compound List

VOCs = volatile organic compounds

SVOCs = semi-volatile organic compounds

PCBs = polychlorinated biphenyls



TABLE 2

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS
PHASE II ENVIRONMENTAL INVESTGATION
11 & 19 DODGE STREET and 1159 MAIN STREET SITE
BUFFALO, NY

Location	Investigation Dimensions			Fill Depth (fbgs)	Peak PID Scan (ppm)	Approximate DTW (fbgs)	Sample Interval (fbgs)	Depth (fbgs) and Soil Description (ASTM D2488: Visual-Manual Procedure)
	Length (feet)	Width (feet)	Depth (fbgs)					
SB-1	NA	0.25	16	0.5 - 4	0	none	(1.0 - 4.0)	<u>0.0 - 0.5: TOPSOIL</u> - Dark brown, moist, fine sand, and non-plastic fines. <u>0.5 - 4.0: FILL</u> - Dark brown, moist, fine to coarse sand with non-plastic fines, red brick and cinders. <u>4.0 - 8.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines. <u>8.0 - 16.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fins and gravel.
SB-2	NA	0.25	12	0.1 - 4	0	none	na	<u>0 - 0.1: TOPSOIL</u> - Dark brown, moist, fine sand, and non-plastic fines. <u>0.1 - 4.0: FILL</u> - Dark brown, moist, fine to coarse sand with non-plastic fines, red brick and cinders. <u>4.0 - 8.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines. <u>8.0 - 12.0: LEAN CLAY WITH FINE SAND</u> - Brown, moist, lean clay with fine sand.
SB-3	NA	0.25	12	0 - 8	0	none	na	<u>0.0 - 6.0: FILL</u> - Dark brown, moist, fine sand, and non-plastic fines, brick, cinders. <u>6.0 - 8.0: FILL</u> - Dark brown, moist, clayey fill with cinders and brick. <u>8.0 - 12.0: FINE SAND</u> - Brown, moist, fine sane with some non-plastic fines.
SB-4	NA	0.25	12	0 - 3	0	none	(0.0 - 3.0)	<u>0.0 - 3.0: FILL</u> - Black stained, moist, fine to coarse sand, little cinders, no odor <u>3.0 - 4.0: FILL</u> - Gray, moist, limestone fragementes. <u>4.0 - 9.0: FILL</u> - Brown, moist, lean clay with gray limestone fragments. <u>9.0 - 12.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines.
SB-5	NA	0.25	12	2 - 4	3.8	none	(8.0 - 12.0)	<u>0.0 - 0.5: FILL</u> - Gray, moist, Gravel with brick and cinders. <u>0.5 - 2.0: FILL</u> - Drak brown, moist, black stained sand, gray limestone fragments, cinders, no odor. <u>2.0 - 4.0: FILL</u> - Dark brown, moist, fine to coarse sand with non-plastic fines, red brick and cinders. <u>4.0 - 12: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines, slight odor at 8 to 12 ft.
SB-6	NA	0.25	12	0.2 - 6	0	none	na	<u>0.0 - 0.2: TOPSOIL</u> - Dark brown, moist, fine sand, and non-plastic fines. <u>0.2 - 4.0: FILL</u> - Dark brown, moist, fine to coarse sand with trace cinders. <u>4.0 - 6.0: FILL</u> - Dark brown, moist, clay, some fine sand, brick and cinders <u>6.0 - 8.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines. <u>8.0 - 12.0: LEAN CLAY</u> - Brown, moist, lean clay with fine sand.
SB-7	NA	0.25	12	1 - 8	0	none	(1.0 - 4.0)	<u>0.0 - 1.0: TOPSOIL</u> - Dark brown, moist, fine sand, and non-plastic fines. <u>1.0 - 8.0: FILL</u> - Dark brown, moist, fine to coarse sand with cinders and brick. <u>8.0 - 12.0: LEAN CLAY</u> - Brown, moist, lean clay, with coarse sand.
SB-8	NA	0.25	12	0 - 6	0	none	(0.0 - 4.0)	<u>0.0 - 4.0: FILL</u> - Dark brown, moist, black stained, sand, trace cinders and brick. <u>4.0 - 6.0: FILL</u> - Dark brown, moist, fine to coarse sand with trace cinders. <u>6.0 - 8.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines. <u>8.0 - 12.0: LEAN CLAY</u> - Brown, moist, lean clay with fine sand.
SB-9	NA	0.25	12	0 - 8	0	none	(5.0 - 8.0)	<u>0.0 - 6.0: FILL</u> - Dark brown, moist, clay with non-plastic fines with cinders and brick. <u>6.0 - 8.0: FILL</u> - Dark brown, moist, sand with non-plastic fines and cinders. <u>8.0 - 11.0: FINE SAND</u> - Brown, wet, fine sand, little coarse sand. (perched water condition) <u>11.0 - 12.0: LEAN CLAY</u> - Brown, moist, lean clay with fine sand.
SB-10	NA	0.25	12	0 - 8	0	none	(0.0 - 3.0)	<u>0.0 - 1.0: FILL</u> - Dark brown, moist, sand with non-plastic fines, with brick and cinders. <u>1.0 - 3.0: FILL</u> - Black stained, moist, sand with non-plastic fines, with cinders, no odor. <u>3.0 - 7.0: FILL</u> - Dark brown, moist, sand. <u>7.0 - 8.0: FILL</u> - Black, clayey fill with sand, trace brick and cinders, no odor <u>8.0 - 10.0: LEAN CLAY</u> - Brown, moist, lean clay, with coarse sand. <u>10.0 - 11.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines. <u>11.0 - 12.0: LEAN CLAY</u> - Brown, moist, lean clay with fine sand.
SB-11	NA	0.25	12	1.5 - 6.5	0	none	(3.0 - 5.0)	<u>0.0 - 1.5: FILL</u> - Gray, moist, gravel and coarse sand. <u>1.5 - 3.0: FILL</u> - Dark brown, moist, sand with non-plastic fines, with brick. <u>3.0 - 5.0: FILL</u> - Black, moist, fine to coarse sand, with brick and cinders. <u>5.0 - 6.5: FILL</u> - Dark brown, moist, silty clay with trace cinders. <u>6.5 - 10.5: LEAN CLAY</u> - Brown, moist, lean clay with trace fine sand. <u>10.5 - 12.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines.



TABLE 2

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS
PHASE II ENVIRONMENTAL INVESTGATION
11 & 19 DODGE STREET and 1159 MAIN STREET SITE
BUFFALO, NY

Location	Investigation Dimensions			Fill Depth (fbgs)	Peak PID Scan (ppm)	Approximate DTW (fbgs)	Sample Interval (fbgs)	Depth (fbgs) and Soil Description (ASTM D2488: Visual-Manual Procedure)
	Length (feet)	Width (feet)	Depth (fbgs)					
SB-12	NA	0.25	12	0.5 - 4	0	none	(2.0 - 4.0)	<u>0.0 - 0.5: ASPHALT</u> and Subbase. <u>0.5 - 2.5: FILL</u> - Dark brown, moist, sand with non-plastic fines, little clay, with brick and cinders. <u>2.5 - 4.0: FILL</u> - Black stained, moist,sand with cinders, no odor. <u>4.0 - 10.5: LEAN CLAY</u> - Brown, moist, lean clay with trace fine sand, wet at 10.5 ft (perched water condition) <u>10.5 - 12.0: LEAN CLAY</u> - Brown, moist, lean clay with fine sand.
SB-13	NA	0.25	12	0.33 - 1.5	0	none	na	<u>0.0 - 0.33: TOPSOIL</u> - Dark brown, moist, fine sand, and non-plastic fines. <u>0.33 - 2.5: FILL</u> - Dark brown, moist, clay with non-plastic fines with cinders and brick. <u>2.5 - 9.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines. <u>9.0 - 11.0: LEAN CLAY</u> - Brown, moist, lean clay with fine sand. <u>11.0 - 12.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines.
SB-14	NA	0.25	12	0.33 - 4	0	none	(0.0 - 2.0)	<u>0.0 - 0.33: ASPHALT</u> and subbase. <u>0.33 - 2.0: FILL</u> - Black, moist, clay with non-plastic fines with cinders and brick. <u>2.0 - 4.0: FILL</u> - Dark brown, moist, clay with non-plastic fines with brick and cinders. <u>4.0 - 8.5: LEAN CLAY</u> - Brown, moist, lean clay with fine sand. <u>8.5 - 12.0: FINE SAND</u> - Brown, moist, fine sand with some non-plastic fines.
TP-1	8.0	2.0	7.0	0 - 6	0	none	(4.0 - 6.0)	<u>0.0 - 6.0: FILL</u> - Brown, moist, mostly non-plastic fines, some fine sand, orange brick, cinders, concrete, roots, 4-inch PVC pipe running east west on south end of test pit. <u>6.0 - 7.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-2	7.0	2.0	5.0	0 - 5	0	none	na	<u>0.0 - 5.0: FILL</u> - Brown, moist, mostly non-plastic fines, some fine sand, orange brick, cinders, concrete, roots, 6-inch PVC pipe (4.5 fbgs) running east west on bottom of test pit.
TP-3	12.0	2.5	5.5	0 - 5.5	0	none	(3.5 - 5.5)	<u>0.0 - 5.5: FILL</u> - Brown, moist, mostly non-plastic fines, some fine sand, orange brick, cinders, concrete, roots, one and half inch steel piping, running east west in test pit, concrete floor at 5.5 fbgs.
TP-4	9.0	3.5	3.5	0 - 3.5	0	none	(0.5 - 3.5)	<u>0.0 - 0.5: TOPSOIL</u> - Dark brown, moist, mostly fine sand, lttle non-plastic fines, mixed with crushed stone, medium dense. <u>0.5 - 3.5: FILL</u> - Orange brick debris, concrete floor at 3.5 fbgs.
TP-5	6.0	2.5	6.0	none	0	none	na	<u>0.0 - 0.5: TOPSOIL</u> - Dark brown, moist, mostly fine sand, lttle non-plastic fines, mixed with crushed stone, medium dense. <u>0.5 - 6.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-6	8.0	4.0	6.5	0.0 - 1.5	0	none	(0.0 - 1.5)	<u>0.0 - 0.5: TOPSOIL</u> - Dark brown, moist, mostly fine sand, lttle non-plastic fines, mixed with crushed stone, medium dense. <u>0.5 - 1.5: FILL</u> - Orange brick debris, mixed with black non-plastic fines and fine sand. <u>1.5 - 6.5: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-7	6.0	2.0	5.0	1 - 2	0	none	na	<u>0.0 - 1.0: CRUSHED STONE</u> - Grey, moist, mostly one inch crushed limestone over black fabric. <u>1.0 - 2.0: FILL</u> - Brown, moist, mostly fine sand, trace brick and concrete. <u>2.0 - 5.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.



TABLE 2

SUMMARY OF SUBSURFACE FIELD OBSERVATIONS
PHASE II ENVIRONMENTAL INVESTGATION
11 & 19 DODGE STREET and 1159 MAIN STREET SITE
BUFFALO, NY

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	Length (feet)	Width (feet)	Depth (fbgs)					
TP-8	8.0	2.0	6.0	1 - 4	0	none	(1.0 - 4.0)	<u>0.0 - 1.0: CRUSHED STONE</u> - Grey, moist, mostly one inch crushed limestone over black fabric. <u>1.0 - 4.0: FILL</u> - Brown, moist, mostly fine sand, brick, concrete, cinders, 4 inch cast iron pipe (4.0 fbgs) running east west on north side of test pit. <u>4.0 - 6.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-9	8.0	2.0	8.5	0.5 - 4	0	none	(0.5 -2.5)	<u>0.0 - 0.5: CRUSHED STONE</u> - Grey, moist, mostly one inch crushed limestone over black fabric. <u>0.5 - 4.0: FILL</u> - Brown, moist, mostly fine sand, brick, concrete, cinders, roots. <u>4.0 - 8.5: REWORKED POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-10	10.0	2.0	7.5	1 - 4.5	0	none	na	<u>0.0 - 1.0: CRUSHED STONE</u> - Grey, moist, mostly one inch crushed limestone over black fabric. <u>1.0 - 2.0: FILL</u> - Brown, moist, mostly fine sand mixed with reddish brown clay, trace brick and concrete, red sandstone. <u>2.0 - 5.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-11	11.0	2.5	6.0	0 - 5	0	none	na	<u>0.0 - 5.0: FILL</u> - Brown, moist, mostly non-plastic fines, some fine sand, crushed limestone, orange brick, cinders, concrete, roots, three quarter inh copper water line (4.5 fbgs) running east west center of test pit. <u>5.0 - 5.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-12	9.0	3.0	6.0	0 - 3	0	none	(1.0 - 3.0)	<u>0.0 - 1.0: TOPSOIL/FILL</u> - Dark brown, moist, mostly fine sand, lttle non-plastic fines, mixed with brick, medium dense. <u>1.0 - 3.0: FILL</u> - Orange brick debris, mixed with black non-plastic fines and fine sand. <u>3.0 - 6.0: POORLY GRADED FINE SAND</u> - Brown moist, mostly fine sand, few non-plastic fines, medium dense, loose when disturbed.
TP-13	9.0	2.5	7.5	0.5 - 2	0	none	na	<u>0.0 - 0.5: CRUSHED STONE</u> - Grey, moist, mostly one inch crushed limestone over black fabric. <u>0.5 - 4.0: FILL</u> - Brown, moist, mostly fine sand,trace brick, concrete, cinders, roots. <u>4.0 - 8.5: REWORKED</u> - Brown moist, mostly fine sand, few non-plastic fines, roots, medium dense, loose when disturbed.
TP-14	7.0	2.0	8.0	0 - 7	0	none	(3.0 - 5.0)	<u>0.0 - 0.5: ASPHALT and SUBASE</u> - Black, moist, mostly asphalt and stone. <u>0.5 - 7.0: FILL</u> - Brown, moist, mostly fine sand, brick, concrete, cinders, roots, from 3.0 to 5.0 fbgs dark grey to black clay soils. <u>7.0 - 8.0: POORLY GRADED FINE SAND</u> - Brown, moist mostly fine sand few non-plastic fines, medium dense loose when disturbed.
TP-15	6.0	3.0	7.0	0 - 7	0	none	none	<u>0.0 - 0.5: TOPSOIL</u> - Dark brown, moist, mostly non-plastic fines, some fine sand, loose, with roots and leaf debris. <u>0.5 - 7.0: FILL</u> - Dark brown, moist, fine to coarse sand, little non-plastic fines and gravel, brick, concrete, plaster, glass, wire, asphalt. <u>7.0 CONCRETE SLAB</u> - Excavator Refusal, concrete slab.
TP-16	6.0	3.0	8.0	0 - 7	0	none	none	<u>0.0 - 0.5: TOPSOIL</u> - Dark brown, moist, mostly non-plastic fines, some fine sand, loose, with roots and leaf debris. <u>0.5 - 7.0: FILL</u> - Dark brown, moist, fine to coarse sand, little non-plastic fines and gravel, brick, concrete, plaster, glass, plastic. <u>7.0 - 8.0: FINE SAND</u> - Light brown, moist , fine sand, some non-plastic fines, trace root structures.
TP-17	6.0	3.0	5.0	0 - 4	0	none	none	<u>0.0 -0.5: TOPSOIL</u> - Dark brown, moist, mostly non-plastic fines, some fine sand, loose, with roots and leaf debris. <u>0.5 - 2.0: FILL</u> - Dark brown, moist, fine to medium sand, some non-plastic fines, little gravel and brick. <u>2.0 - 4.0: FILL</u> - Gray, moist, crushed stone. 2, 1-inch metal lines (water, no contents within lines). <u>4.0 - 5.0: SILT & SAND</u> - Light brown, moist, non-plastic fine and fine sand, trace gravel.
TP-18	6.0	3.0	4.0	0 - 4	0	none	none	<u>0.0 - 1.0: FILL</u> - Gray, moist, crushed stone with underlying geotextile fabric. <u>1.0 - 3.0: Reworked</u> - Light brown, moist, fine to medium sand and non-plastic fines, little gravel (reworked native). <u>3.0 - 4.0: FILL</u> - Dark brown, moist, fine to medium sand and non-plastic fines, some black residue on fill material, steel tie back rod. <u>4.0 :CONCRETE SLAB</u> - Excavator Refusal, concrete slab.

Notes:
1. fbgs = feet below ground surface
2. DTW = depth to water
3. PID = MiniRae photoionization detector equipped with a 10.6 eV lamp
4. ppm = parts per million
5. cpm = counts per minute



TABLE 3

SUMMARY OF SOIL/FILL SAMPLE ANALYTICAL RESULTS
PHASE II ENVIRONMENTAL INVESTGATION
11 & 19 DODGE STREET and 1159 MAIN STREET SITE
BUFFALO, NY

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	Industrial Use SCOs ²																						
					SB-1 1-4 ft	SB-4 0-3 ft	SB-5 8-12 ft	SB-7 1-4 ft	SB-8 0-4 ft	SB-9 5-8 ft	SB-10 0-3 ft	SB-11 3-5 ft	SB-12 2-4 ft	SB-14 0-2 ft	TP-1 4-6 ft	TP-4 0.5-3.5 ft	TP-8 1-4 ft	TP-12 1-3 ft	TP-14 3-5 ft	TP-15 6-7 ft	TP-16 3-4 ft	TP-18 3-4 ft	SS-1 0-4 in	SS-2 0-4 in	SS-3 0-4 in	
Volatile Organic Compounds (VOCs) - mg/Kg ³																										
Acetone	0.05	100	500	1000	NT	NT	ND	NT	NT	1.7 J	NT	NT	ND	0.002 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Methylcyclohexane	--	--	--		NT	NT	ND	NT	NT	ND	NT	NT	0.00025 J	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ³																										
2-Methylnaphthalene	--	--	--	--	ND	0.072 J	NT	ND	ND	NT	0.06 J	ND	ND	NT	ND	ND	0.063 J	0.052 J	0.043 J	ND	ND	ND	ND	ND	ND	
2-Nitrodiphenylamine (NDPA/DPA)	--	--	--	--	ND	ND	NT	ND	ND	NT	0.039 J	ND	ND	NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	NT	NT	
Acenaphthene	20	100	500	1000	ND	0.092 J	NT	ND	ND	NT	0.12 J	ND	ND	NT	ND	ND	0.065 J	0.022 J	0.036 J	0.027 J	ND	6	ND	0.4 J	0.067 J	
Acenaphthylene	100	100	500	1000	ND	0.051 J	NT	ND	0.061 J	NT	0.07 J	0.12 J	ND	NT	ND	ND	0.12 J	0.16	0.04 J	0.066 J	ND	4.2	ND	0.053 J	0.06 J	
Anthracene	100	100	500	1000	ND	0.32	NT	0.094 J	0.11	NT	0.35	0.14	0.076 J	NT	ND	0.19 J	0.27	0.19	0.14	0.13	ND	18	ND	0.14 J	0.19	
Benzo(a)anthracene	1	1	5.6	11	0.36	1.2	NT	0.18	0.36	NT	0.93	0.47	0.19	NT	0.062 J	1.3	0.89	0.44	0.63	0.36	0.1 J	35	0.16	0.46	1.1	
Benzo(a)pyrene	1	1	1	1.1	0.31	1.1	NT	0.18	0.33	NT	0.84	0.52	0.18	NT	0.082 J	1	0.75	0.42	0.63	0.38	0.11 J	26	0.18	0.44	1.3	
Benzo(b)fluoranthene	1	1	5.6	11	0.46	1.4	NT	0.23	0.45	NT	1.1	0.62	2.2	NT	0.088 J	1.5	1.1	0.61	1.1	0.54	0.18	38	0.29	0.64	2.3	
Benzo(ghi)perylene	100	100	500	1000	0.18	0.56	NT	0.12 J	0.18	NT	0.44	0.44	0.11 J	NT	0.064 J	0.63 J	0.43	0.6	0.54	0.3	0.14 J	13	0.14 J	0.31	1.2	
Benzo(k)fluoranthene	0.8	3.9	56	110	0.18	0.54	NT	0.071 J	0.14	NT	0.47	0.21	0.088 J	NT	ND	0.52	0.34	0.21	0.34	0.15	0.075 J	12	0.089 J	0.2	0.65	
Bis(2-ethylhexyl) phthalate	--	--	--	--	0.084 J	0.11 J	NT	0.41	0.24	NT	ND	ND	ND	NT	ND	ND	ND	0.25	ND	ND	ND	ND	ND	0.34	0.57	
Butyl benzyl phthalate	--	--	--	--	ND	ND	NT	0.057 J	ND	NT	ND	ND	ND	NT	ND	ND	ND	1.3	ND	ND	ND	ND	ND	0.079 J	0.1 J	
Carbazole	--	--	--	--	0.056 J	0.18 J	NT	0.047 J	0.032 J	NT	0.17 J	0.063 J	0.045 J	NT	ND	0.25 J	0.16 J	0.074 J	0.16 J	ND	ND	ND	ND	0.077 J	0.2 J	
Chrysene	1	3.9	56	110	0.34	1.1	NT	0.17	0.35	NT	0.89	0.47	0.18	NT	0.057 J	1.4	0.94	0.47	0.83	0.4	0.12 J	33	0.2	0.51	1.6	
Dibenzo(a,h)anthracene	0.33	0.33	0.56	1.1	0.045 J	0.14	NT	ND	0.046 J	NT	0.11	0.084 J	0.026 J	NT	ND	0.21 J	0.13	0.083 J	0.13	0.089 J	ND	3.9	0.034 J	0.088 J	0.26	
Di-n-butyl phthalate	--	--	--		ND	ND	NT	0.064 J	ND	NT	ND	ND	ND	NT	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND	ND	
Dibenzofuran	7	59	350	1000	ND	0.075 J	NT	ND	ND	NT	0.079 J	ND	ND	NT	ND	ND	0.072 J	0.029 J	0.044 J	0.023 J	ND	6	ND	0.024 J	0.035 J	
Fluoranthene	100	100	500	1000	0.5	2	NT	0.38	0.79	NT	2	0.88	0.36	NT	0.1 J	2.1	1.9	ND	1.7	0.7	0.18	72	0.37	1	3	
Fluorene	30	100	500	1000	ND	0.11 J	NT	0.039 J	ND	NT	0.14 J	0.04 J	0.027 J	NT	ND	ND	0.1 J	0.034 J	0.045 J	0.032 J	ND	8.5	ND	0.053 J	0.067 J	
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.2	0.65	NT	0.1 J	0.2	NT	0.5	0.33	0.11 J	NT	0.057 J	0.74	0.49	0.44	0.59	0.29	0.1 J	16	0.15 J	0.33	1.3	
Naphthalene	12	100	500	1000	ND	0.076 J	NT	ND	ND	NT	0.059 J	ND	ND	NT	ND	0.13 J	0.076 J	0.67 J	0.095 J	0.032 J	0.026 J	3.9	ND	0.031 J	0.047 J	
Pentachlorophenol	0.8	6.7	6.7		ND	ND	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	
Phenanthrene	100	100	500	1000	0.088 J	1.2	NT	ND	0.35	NT	1.5	0.43	0.28	NT	0.080 J	0.25 J	1.3	0.39	0.78	0.39	0.1 J	68	0.12 J	0.57	1.1	
Pyrene	100	100	500	1000	0.41	1.6	NT	0.3	0.67	NT	1.6	0.78	0.29	NT	0.092 J	1.8	1.6	0.66	1.4	0.59	0.15	59	0.29	0.81	2.4	
Total Metals - mg/Kg																										
Arsenic	13	16	16	16	NT	NT	NT	3.1	2	NT	4.2	15	9.7	NT	3.77	9.15	3.94	10.9	8.09	5.61	5.32	6.8	3.75	5.28	2.36	
Barium	350	400	400	10000	NT	NT	NT	75	46	NT	36	67	77	NT	82	66.4	85	62.6	115	712	69.7	192	44	79.2	67.4	
Beryllium	7.2	72	590	2700	NT	NT	NT	0.22 J	0.26	NT	0.24	0.35	0.17 J	NT	0.397	0.167 J	0.383	0.332	0.376	0.18 J	0.176 J	0.421	0.352	1.1	1.7	
Cadmium	2.5	4.3	9.3	60	NT	NT	NT	ND	ND	NT	0.07 J	ND	ND	NT	0.344 J	1.03	0.413 J	2.11	0.838	3.01	1.26	1	0.546	0.845	0.932	
Chromium	30	180	1500	6800	NT	NT	NT	6.5	5.7	NT	5.2	10	4.4	NT	11.1	31.6	9.77	13.5	12.5	12.7	388	9.9	12.5	10.2	17.7	
Copper	50	270	270	10000	NT	NT	NT	12	61	NT	9.3	38	21	NT	17.5	98.4	18.1	55.3	49.2	35.1	21.9	27.1	21.5	27.1	23.2	
Lead	63	400	1000	3900	NT	NT	NT	260	55	NT	17	150	58	NT	152	373	105	318	267	2710	2680	1070	39.5	144	100	
Manganese	1600	2000	10000	10000	NT	NT	NT	200	180	NT	230	220	250	NT	335	236	241	332	572	202	171	398	314	423	496	
Mercury	0.18	0.81	2.8	5.7	NT	NT	NT	0.29	0.28	NT	0.06 J	0.37	0.33	NT	0.655	0.127	0.134	0.254	0.387	0.64	0.697	0.676	0.103	0.304	0.074 J	
Nickel	30	310	310	10000	NT	NT	NT	6.1	4.8	NT	5.1	11	5.3	NT	11.9	630	10.3	16.5	16.4	6.68	6.7	11.5	9.82	10.9	9.31	
Selenium	3.9	180	1500	6800	NT	NT	NT	0.5 J	0.49 J	NT	0.54 J	0.92 J	0.57 J	NT	0.408 J	0.771 J	0.557 J	1.62	1.1	0.554 J	0.704 J	0.530 J	0.578 J	1.13 J	1.3	
Silver	2	180	1500	6800	NT	NT	NT	ND	ND	NT	ND	ND	ND	NT	ND	ND	ND	0.146 J	ND	0.237 J	0.479 J	0.549	ND	ND	0.418	
Zinc	109	10000	10000	10000	NT	NT	NT	100	49	NT	24	110	99	NT	61.2	979	78.2	263	358	1120	571	343	81.5	161	115	
Polychlorinated biphenyls (PCBs) - mg/Kg ³																										
Total PCBs	0.1	1	1	25	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	

- Notes:
- Only those parameters detected at a minimum of one sample location are presented in this table; other compounds were reported as non-detect.
 - Values per NYSDEC Part 375 Soil Cleanup Objectives (SCOs).
 - Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

NT = Parameter not analysed for.

"--" = No value available for the parameter.

J = Estimated value; result is less than the reporting limit but greater than method detection limit.

Bold	= Result exceeds Unrestricted Use SCOs.
Bold	= Result exceeds Restricted Residential Use SCOs.
Bold	= Result exceeds Commercial Use SCOs.
Bold	= Result exceeds Industrial use SCOs.

ANALYTICAL DATA PACKAGES



ANALYTICAL REPORT

Lab Number:	L1831086
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	MAIN & DODGE
Project Number:	0371-018-001
Report Date:	08/16/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831086-01	TP-1 (4-6)	SOIL	BUFFALO, NY	08/08/18 08:20	08/09/18
L1831086-02	TP-3 (3.5-5.5)	SOIL	BUFFALO, NY	08/08/18 09:55	08/09/18
L1831086-03	TP-4 (0.5-3.5)	SOIL	BUFFALO, NY	08/08/18 10:38	08/09/18
L1831086-04	TP-6 (0-1.5)	SOIL	BUFFALO, NY	08/08/18 10:53	08/09/18
L1831086-05	TP-8 (1-4)	SOIL	BUFFALO, NY	08/08/18 11:46	08/09/18
L1831086-06	TP-9 (0.5-2.5)	SOIL	BUFFALO, NY	08/08/18 12:30	08/09/18
L1831086-07	TP-12 (1-3)	SOIL	BUFFALO, NY	08/08/18 14:15	08/09/18
L1831086-08	TP-14 (3-5)	SOIL	BUFFALO, NY	08/08/18 15:40	08/09/18
L1831086-09	SS-1	SOIL	BUFFALO, NY	08/08/18 15:30	08/09/18
L1831086-10	SS-2	SOIL	BUFFALO, NY	08/08/18 15:55	08/09/18
L1831086-11	SS-3	SOIL	BUFFALO, NY	08/08/18 16:00	08/09/18

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L1831086-03: The sample has elevated detection limits due to the dilution required by the sample matrix.

Cyanide, Total

The WG1145485-3 LCSD recovery (60%), associated with L1831086-01, -03, -05, -07, -08 and -09, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1145485-2/-3 LCS/LCSD RPD (43%), associated with L1831086-01, -03, -05, -07, -08 and -09, is above the acceptance criteria.

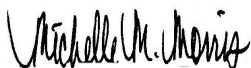
The WG1145685-2/-3 LCS/LCSD recoveries (58%/79%), associated with L1831086-10 and -11, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1145485-4 MS recovery (47%), performed on L1831086-01, is outside the acceptance criteria; however, the associated LCS recovery is within criteria. No further action was taken.

The WG1145485-4/-5 MS/MSD RPD (67%), performed on L1831086-01, is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 08/16/18

ORGANICS

SEMIVOLATILES

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-01
Client ID: TP-1 (4-6)
Sample Location: BUFFALO, NY

Date Collected: 08/08/18 08:20
Date Received: 08/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/15/18 02:37
Analyst: RC
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 08/14/18 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	38.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	38.	1
Fluoranthene	100	J	ug/kg	130	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	77.	1
Butyl benzyl phthalate	ND		ug/kg	220	56.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	76.	1

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-01

Date Collected: 08/08/18 08:20

Client ID: TP-1 (4-6)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	62	J	ug/kg	130	25.	1
Benzo(a)pyrene	82	J	ug/kg	180	54.	1
Benzo(b)fluoranthene	88	J	ug/kg	130	38.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	57	J	ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	44.	1
Benzo(ghi)perylene	64	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	80	J	ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	57	J	ug/kg	180	31.	1
Pyrene	92	J	ug/kg	130	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	28.	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	78		10-136
4-Terphenyl-d14	63		18-120

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-03 D

Date Collected: 08/08/18 10:38

Client ID: TP-4 (0.5-3.5)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Extraction Method: EPA 3546

Analytical Method: 1,8270D

Extraction Date: 08/14/18 08:31

Analytical Date: 08/15/18 06:12

Analyst: RC

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	700	91.	4
1,2,4-Trichlorobenzene	ND		ug/kg	880	100	4
Hexachlorobenzene	ND		ug/kg	520	98.	4
Bis(2-chloroethyl)ether	ND		ug/kg	790	120	4
2-Chloronaphthalene	ND		ug/kg	880	87.	4
1,2-Dichlorobenzene	ND		ug/kg	880	160	4
1,3-Dichlorobenzene	ND		ug/kg	880	150	4
1,4-Dichlorobenzene	ND		ug/kg	880	150	4
3,3'-Dichlorobenzidine	ND		ug/kg	880	230	4
2,4-Dinitrotoluene	ND		ug/kg	880	180	4
2,6-Dinitrotoluene	ND		ug/kg	880	150	4
Fluoranthene	2100		ug/kg	520	100	4
4-Chlorophenyl phenyl ether	ND		ug/kg	880	94.	4
4-Bromophenyl phenyl ether	ND		ug/kg	880	130	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	1000	150	4
Bis(2-chloroethoxy)methane	ND		ug/kg	950	88.	4
Hexachlorobutadiene	ND		ug/kg	880	130	4
Hexachlorocyclopentadiene	ND		ug/kg	2500	790	4
Hexachloroethane	ND		ug/kg	700	140	4
Isophorone	ND		ug/kg	790	110	4
Naphthalene	130	J	ug/kg	880	110	4
Nitrobenzene	ND		ug/kg	790	130	4
NDPA/DPA	ND		ug/kg	700	100	4
n-Nitrosodi-n-propylamine	ND		ug/kg	880	140	4
Bis(2-ethylhexyl)phthalate	ND		ug/kg	880	300	4
Butyl benzyl phthalate	ND		ug/kg	880	220	4
Di-n-butylphthalate	ND		ug/kg	880	170	4
Di-n-octylphthalate	ND		ug/kg	880	300	4

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-03 D

Date Collected: 08/08/18 10:38

Client ID: TP-4 (0.5-3.5)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	880	81.	4
Dimethyl phthalate	ND		ug/kg	880	180	4
Benzo(a)anthracene	1300		ug/kg	520	99.	4
Benzo(a)pyrene	1000		ug/kg	700	210	4
Benzo(b)fluoranthene	1500		ug/kg	520	150	4
Benzo(k)fluoranthene	520		ug/kg	520	140	4
Chrysene	1400		ug/kg	520	91.	4
Acenaphthylene	ND		ug/kg	700	140	4
Anthracene	190	J	ug/kg	520	170	4
Benzo(ghi)perylene	630	J	ug/kg	700	100	4
Fluorene	ND		ug/kg	880	85.	4
Phenanthrene	250	J	ug/kg	520	110	4
Dibenzo(a,h)anthracene	210	J	ug/kg	520	100	4
Indeno(1,2,3-cd)pyrene	740		ug/kg	700	120	4
Pyrene	1800		ug/kg	520	87.	4
Biphenyl	ND		ug/kg	2000	200	4
4-Chloroaniline	ND		ug/kg	880	160	4
2-Nitroaniline	ND		ug/kg	880	170	4
3-Nitroaniline	ND		ug/kg	880	160	4
4-Nitroaniline	ND		ug/kg	880	360	4
Dibenzofuran	ND		ug/kg	880	83.	4
2-Methylnaphthalene	ND		ug/kg	1000	100	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	880	91.	4
Acetophenone	ND		ug/kg	880	110	4
Benzyl Alcohol	ND		ug/kg	880	270	4
Carbazole	250	J	ug/kg	880	85.	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	54		18-120

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-05
 Client ID: TP-8 (1-4)
 Sample Location: BUFFALO, NY

Date Collected: 08/08/18 11:46
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/18 06:36
 Analyst: RC
 Percent Solids: 89%

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 08:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	65	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	1900		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	76	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-05

Date Collected: 08/08/18 11:46

Client ID: TP-8 (1-4)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	890		ug/kg	110	21.	1
Benzo(a)pyrene	750		ug/kg	150	46.	1
Benzo(b)fluoranthene	1100		ug/kg	110	31.	1
Benzo(k)fluoranthene	340		ug/kg	110	30.	1
Chrysene	940		ug/kg	110	19.	1
Acenaphthylene	120	J	ug/kg	150	29.	1
Anthracene	270		ug/kg	110	36.	1
Benzo(ghi)perylene	430		ug/kg	150	22.	1
Fluorene	100	J	ug/kg	190	18.	1
Phenanthrene	1300		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	130		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	490		ug/kg	150	26.	1
Pyrene	1600		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	72	J	ug/kg	190	18.	1
2-Methylnaphthalene	63	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	160	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	86		18-120

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-07
 Client ID: TP-12 (1-3)
 Sample Location: BUFFALO, NY

Date Collected: 08/08/18 14:15
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/18 07:00
 Analyst: RC
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 09:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	22	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	820		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	67	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	250		ug/kg	180	62.	1
Butyl benzyl phthalate	1300		ug/kg	180	45.	1
Di-n-butylphthalate	130	J	ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-07

Date Collected: 08/08/18 14:15

Client ID: TP-12 (1-3)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	440		ug/kg	110	20.	1
Benzo(a)pyrene	420		ug/kg	140	43.	1
Benzo(b)fluoranthene	610		ug/kg	110	30.	1
Benzo(k)fluoranthene	210		ug/kg	110	28.	1
Chrysene	470		ug/kg	110	18.	1
Acenaphthylene	160		ug/kg	140	27.	1
Anthracene	190		ug/kg	110	35.	1
Benzo(ghi)perylene	600		ug/kg	140	21.	1
Fluorene	34	J	ug/kg	180	17.	1
Phenanthrene	390		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	83	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	440		ug/kg	140	25.	1
Pyrene	660		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	29	J	ug/kg	180	17.	1
2-Methylnaphthalene	52	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	74	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	63		18-120

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-08
 Client ID: TP-14 (3-5)
 Sample Location: BUFFALO, NY

Date Collected: 08/08/18 15:40
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/18 07:24
 Analyst: RC
 Percent Solids: 76%

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 09:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	36	J	ug/kg	170	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	25.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	39.	1
1,3-Dichlorobenzene	ND		ug/kg	220	37.	1
1,4-Dichlorobenzene	ND		ug/kg	220	38.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	58.	1
2,4-Dinitrotoluene	ND		ug/kg	220	44.	1
2,6-Dinitrotoluene	ND		ug/kg	220	37.	1
Fluoranthene	1700		ug/kg	130	25.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	23.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	33.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	37.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	32.	1
Hexachlorocyclopentadiene	ND		ug/kg	620	200	1
Hexachloroethane	ND		ug/kg	170	35.	1
Isophorone	ND		ug/kg	200	28.	1
Naphthalene	95	J	ug/kg	220	26.	1
Nitrobenzene	ND		ug/kg	200	32.	1
NDPA/DPA	ND		ug/kg	170	25.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	34.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	75.	1
Butyl benzyl phthalate	ND		ug/kg	220	55.	1
Di-n-butylphthalate	ND		ug/kg	220	41.	1
Di-n-octylphthalate	ND		ug/kg	220	74.	1

Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-08

Date Collected: 08/08/18 15:40

Client ID: TP-14 (3-5)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	20.	1
Dimethyl phthalate	ND		ug/kg	220	46.	1
Benzo(a)anthracene	630		ug/kg	130	24.	1
Benzo(a)pyrene	630		ug/kg	170	53.	1
Benzo(b)fluoranthene	1100		ug/kg	130	37.	1
Benzo(k)fluoranthene	340		ug/kg	130	35.	1
Chrysene	830		ug/kg	130	23.	1
Acenaphthylene	40	J	ug/kg	170	34.	1
Anthracene	140		ug/kg	130	42.	1
Benzo(ghi)perylene	540		ug/kg	170	26.	1
Fluorene	45	J	ug/kg	220	21.	1
Phenanthrene	780		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	130		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	590		ug/kg	170	30.	1
Pyrene	1400		ug/kg	130	22.	1
Biphenyl	ND		ug/kg	500	50.	1
4-Chloroaniline	ND		ug/kg	220	40.	1
2-Nitroaniline	ND		ug/kg	220	42.	1
3-Nitroaniline	ND		ug/kg	220	41.	1
4-Nitroaniline	ND		ug/kg	220	90.	1
Dibenzofuran	44	J	ug/kg	220	21.	1
2-Methylnaphthalene	43	J	ug/kg	260	26.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	23.	1
Acetophenone	ND		ug/kg	220	27.	1
Benzyl Alcohol	ND		ug/kg	220	67.	1
Carbazole	160	J	ug/kg	220	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	83		18-120

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-09
Client ID: SS-1
Sample Location: BUFFALO, NY

Date Collected: 08/08/18 15:30
Date Received: 08/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/15/18 03:01
Analyst: RC
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 08/14/18 09:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	26.	1
Hexachlorobenzene	ND		ug/kg	140	25.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	30.	1
2-Chloronaphthalene	ND		ug/kg	220	22.	1
1,2-Dichlorobenzene	ND		ug/kg	220	40.	1
1,3-Dichlorobenzene	ND		ug/kg	220	39.	1
1,4-Dichlorobenzene	ND		ug/kg	220	39.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	60.	1
2,4-Dinitrotoluene	ND		ug/kg	220	45.	1
2,6-Dinitrotoluene	ND		ug/kg	220	39.	1
Fluoranthene	370		ug/kg	140	26.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	24.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	34.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	270	38.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	22.	1
Hexachlorobutadiene	ND		ug/kg	220	33.	1
Hexachlorocyclopentadiene	ND		ug/kg	640	200	1
Hexachloroethane	ND		ug/kg	180	36.	1
Isophorone	ND		ug/kg	200	29.	1
Naphthalene	ND		ug/kg	220	27.	1
Nitrobenzene	ND		ug/kg	200	33.	1
NDPA/DPA	ND		ug/kg	180	26.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	35.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	220	78.	1
Butyl benzyl phthalate	ND		ug/kg	220	57.	1
Di-n-butylphthalate	ND		ug/kg	220	43.	1
Di-n-octylphthalate	ND		ug/kg	220	77.	1

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-09

Date Collected: 08/08/18 15:30

Client ID: SS-1

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	220	21.	1
Dimethyl phthalate	ND		ug/kg	220	47.	1
Benzo(a)anthracene	160		ug/kg	140	25.	1
Benzo(a)pyrene	180		ug/kg	180	55.	1
Benzo(b)fluoranthene	290		ug/kg	140	38.	1
Benzo(k)fluoranthene	89	J	ug/kg	140	36.	1
Chrysene	200		ug/kg	140	23.	1
Acenaphthylene	ND		ug/kg	180	35.	1
Anthracene	ND		ug/kg	140	44.	1
Benzo(ghi)perylene	140	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	120	J	ug/kg	140	27.	1
Dibenzo(a,h)anthracene	34	J	ug/kg	140	26.	1
Indeno(1,2,3-cd)pyrene	150	J	ug/kg	180	31.	1
Pyrene	290		ug/kg	140	22.	1
Biphenyl	ND		ug/kg	510	52.	1
4-Chloroaniline	ND		ug/kg	220	41.	1
2-Nitroaniline	ND		ug/kg	220	43.	1
3-Nitroaniline	ND		ug/kg	220	42.	1
4-Nitroaniline	ND		ug/kg	220	93.	1
Dibenzofuran	ND		ug/kg	220	21.	1
2-Methylnaphthalene	ND		ug/kg	270	27.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	24.	1
Acetophenone	ND		ug/kg	220	28.	1
Benzyl Alcohol	ND		ug/kg	220	69.	1
Carbazole	ND		ug/kg	220	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	54		18-120

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-10
 Client ID: SS-2
 Sample Location: BUFFALO, NY

Date Collected: 08/08/18 15:55
 Date Received: 08/09/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/15/18 08:36
 Analyst: RC
 Percent Solids: 63%

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 09:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	40	J	ug/kg	200	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	29.	1
Hexachlorobenzene	ND		ug/kg	150	29.	1
Bis(2-chloroethyl)ether	ND		ug/kg	230	35.	1
2-Chloronaphthalene	ND		ug/kg	260	25.	1
1,2-Dichlorobenzene	ND		ug/kg	260	46.	1
1,3-Dichlorobenzene	ND		ug/kg	260	44.	1
1,4-Dichlorobenzene	ND		ug/kg	260	45.	1
3,3'-Dichlorobenzidine	ND		ug/kg	260	68.	1
2,4-Dinitrotoluene	ND		ug/kg	260	51.	1
2,6-Dinitrotoluene	ND		ug/kg	260	44.	1
Fluoranthene	1000		ug/kg	150	30.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	260	27.	1
4-Bromophenyl phenyl ether	ND		ug/kg	260	39.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	310	44.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	280	26.	1
Hexachlorobutadiene	ND		ug/kg	260	38.	1
Hexachlorocyclopentadiene	ND		ug/kg	740	230	1
Hexachloroethane	ND		ug/kg	200	42.	1
Isophorone	ND		ug/kg	230	33.	1
Naphthalene	31	J	ug/kg	260	31.	1
Nitrobenzene	ND		ug/kg	230	38.	1
NDPA/DPA	ND		ug/kg	200	29.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	260	40.	1
Bis(2-ethylhexyl)phthalate	340		ug/kg	260	89.	1
Butyl benzyl phthalate	79	J	ug/kg	260	65.	1
Di-n-butylphthalate	ND		ug/kg	260	49.	1
Di-n-octylphthalate	ND		ug/kg	260	87.	1

Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-10

Date Collected: 08/08/18 15:55

Client ID: SS-2

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	260	24.	1
Dimethyl phthalate	ND		ug/kg	260	54.	1
Benzo(a)anthracene	460		ug/kg	150	29.	1
Benzo(a)pyrene	440		ug/kg	200	63.	1
Benzo(b)fluoranthene	640		ug/kg	150	43.	1
Benzo(k)fluoranthene	200		ug/kg	150	41.	1
Chrysene	510		ug/kg	150	27.	1
Acenaphthylene	53	J	ug/kg	200	40.	1
Anthracene	140	J	ug/kg	150	50.	1
Benzo(ghi)perylene	310		ug/kg	200	30.	1
Fluorene	53	J	ug/kg	260	25.	1
Phenanthrene	570		ug/kg	150	31.	1
Dibenzo(a,h)anthracene	88	J	ug/kg	150	30.	1
Indeno(1,2,3-cd)pyrene	330		ug/kg	200	36.	1
Pyrene	810		ug/kg	150	26.	1
Biphenyl	ND		ug/kg	580	60.	1
4-Chloroaniline	ND		ug/kg	260	47.	1
2-Nitroaniline	ND		ug/kg	260	50.	1
3-Nitroaniline	ND		ug/kg	260	48.	1
4-Nitroaniline	ND		ug/kg	260	110	1
Dibenzofuran	24	J	ug/kg	260	24.	1
2-Methylnaphthalene	ND		ug/kg	310	31.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	260	27.	1
Acetophenone	ND		ug/kg	260	32.	1
Benzyl Alcohol	ND		ug/kg	260	79.	1
Carbazole	77	J	ug/kg	260	25.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	53		18-120

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-11
Client ID: SS-3
Sample Location: BUFFALO, NY

Date Collected: 08/08/18 16:00
Date Received: 08/09/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/15/18 08:12
Analyst: RC
Percent Solids: 61%

Extraction Method: EPA 3546
Extraction Date: 08/14/18 09:11

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	67	J	ug/kg	220	28.	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	31.	1
Hexachlorobenzene	ND		ug/kg	160	30.	1
Bis(2-chloroethyl)ether	ND		ug/kg	240	36.	1
2-Chloronaphthalene	ND		ug/kg	270	27.	1
1,2-Dichlorobenzene	ND		ug/kg	270	48.	1
1,3-Dichlorobenzene	ND		ug/kg	270	46.	1
1,4-Dichlorobenzene	ND		ug/kg	270	47.	1
3,3'-Dichlorobenzidine	ND		ug/kg	270	72.	1
2,4-Dinitrotoluene	ND		ug/kg	270	54.	1
2,6-Dinitrotoluene	ND		ug/kg	270	46.	1
Fluoranthene	3000		ug/kg	160	31.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	270	29.	1
4-Bromophenyl phenyl ether	ND		ug/kg	270	41.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	320	46.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	290	27.	1
Hexachlorobutadiene	ND		ug/kg	270	39.	1
Hexachlorocyclopentadiene	ND		ug/kg	770	240	1
Hexachloroethane	ND		ug/kg	220	44.	1
Isophorone	ND		ug/kg	240	35.	1
Naphthalene	47	J	ug/kg	270	33.	1
Nitrobenzene	ND		ug/kg	240	40.	1
NDPA/DPA	ND		ug/kg	220	31.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	270	42.	1
Bis(2-ethylhexyl)phthalate	570		ug/kg	270	93.	1
Butyl benzyl phthalate	100	J	ug/kg	270	68.	1
Di-n-butylphthalate	ND		ug/kg	270	51.	1
Di-n-octylphthalate	ND		ug/kg	270	92.	1

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-11

Date Collected: 08/08/18 16:00

Client ID: SS-3

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	270	25.	1
Dimethyl phthalate	ND		ug/kg	270	56.	1
Benzo(a)anthracene	1100		ug/kg	160	30.	1
Benzo(a)pyrene	1300		ug/kg	220	66.	1
Benzo(b)fluoranthene	2300		ug/kg	160	45.	1
Benzo(k)fluoranthene	650		ug/kg	160	43.	1
Chrysene	1600		ug/kg	160	28.	1
Acenaphthylene	60	J	ug/kg	220	42.	1
Anthracene	190		ug/kg	160	52.	1
Benzo(ghi)perylene	1200		ug/kg	220	32.	1
Fluorene	67	J	ug/kg	270	26.	1
Phenanthrene	1100		ug/kg	160	33.	1
Dibenzo(a,h)anthracene	260		ug/kg	160	31.	1
Indeno(1,2,3-cd)pyrene	1300		ug/kg	220	38.	1
Pyrene	2400		ug/kg	160	27.	1
Biphenyl	ND		ug/kg	610	62.	1
4-Chloroaniline	ND		ug/kg	270	49.	1
2-Nitroaniline	ND		ug/kg	270	52.	1
3-Nitroaniline	ND		ug/kg	270	51.	1
4-Nitroaniline	ND		ug/kg	270	110	1
Dibenzofuran	35	J	ug/kg	270	25.	1
2-Methylnaphthalene	ND		ug/kg	320	32.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	270	28.	1
Acetophenone	ND		ug/kg	270	33.	1
Benzyl Alcohol	ND		ug/kg	270	82.	1
Carbazole	200	J	ug/kg	270	26.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	52		18-120

Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/14/18 10:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07-11 Batch: WG1146078-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/14/18 10:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07-11 Batch: WG1146078-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/14/18 10:30
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/14/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,03,05,07-11 Batch: WG1146078-1					

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07-11 Batch: WG1146078-2 WG1146078-3								
Acenaphthene	76		87		31-137	13		50
1,2,4-Trichlorobenzene	76		82		38-107	8		50
Hexachlorobenzene	83		87		40-140	5		50
Bis(2-chloroethyl)ether	76		78		40-140	3		50
2-Chloronaphthalene	80		91		40-140	13		50
1,2-Dichlorobenzene	72		74		40-140	3		50
1,3-Dichlorobenzene	74		75		40-140	1		50
1,4-Dichlorobenzene	74		75		28-104	1		50
3,3'-Dichlorobenzidine	57		58		40-140	2		50
2,4-Dinitrotoluene	81		89		40-132	9		50
2,6-Dinitrotoluene	84		92		40-140	9		50
Fluoranthene	86		94		40-140	9		50
4-Chlorophenyl phenyl ether	80		87		40-140	8		50
4-Bromophenyl phenyl ether	83		84		40-140	1		50
Bis(2-chloroisopropyl)ether	75		78		40-140	4		50
Bis(2-chloroethoxy)methane	80		86		40-117	7		50
Hexachlorobutadiene	75		80		40-140	6		50
Hexachlorocyclopentadiene	80		88		40-140	10		50
Hexachloroethane	68		74		40-140	8		50
Isophorone	82		84		40-140	2		50
Naphthalene	79		84		40-140	6		50
Nitrobenzene	77		79		40-140	3		50
NDPA/DPA	82		91		36-157	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07-11 Batch: WG1146078-2 WG1146078-3								
n-Nitrosodi-n-propylamine	80		85		32-121	6		50
Bis(2-ethylhexyl)phthalate	84		90		40-140	7		50
Butyl benzyl phthalate	85		92		40-140	8		50
Di-n-butylphthalate	86		94		40-140	9		50
Di-n-octylphthalate	85		92		40-140	8		50
Diethyl phthalate	81		90		40-140	11		50
Dimethyl phthalate	85		96		40-140	12		50
Benzo(a)anthracene	80		86		40-140	7		50
Benzo(a)pyrene	84		89		40-140	6		50
Benzo(b)fluoranthene	83		92		40-140	10		50
Benzo(k)fluoranthene	86		87		40-140	1		50
Chrysene	84		89		40-140	6		50
Acenaphthylene	82		93		40-140	13		50
Anthracene	83		92		40-140	10		50
Benzo(ghi)perylene	85		92		40-140	8		50
Fluorene	80		90		40-140	12		50
Phenanthrene	82		90		40-140	9		50
Dibenzo(a,h)anthracene	84		91		40-140	8		50
Indeno(1,2,3-cd)pyrene	85		93		40-140	9		50
Pyrene	85		93		35-142	9		50
Biphenyl	83		93		54-104	11		50
4-Chloroaniline	46		49		40-140	6		50
2-Nitroaniline	80		86		47-134	7		50

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,03,05,07-11 Batch: WG1146078-2 WG1146078-3								
3-Nitroaniline	61		65		26-129	6		50
4-Nitroaniline	81		82		41-125	1		50
Dibenzofuran	79		88		40-140	11		50
2-Methylnaphthalene	78		88		40-140	12		50
1,2,4,5-Tetrachlorobenzene	78		88		40-117	12		50
Acetophenone	81		84		14-144	4		50
Benzyl Alcohol	82		87		40-140	6		50
Carbazole	83		93		54-128	11		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	77		85		25-120
Phenol-d6	82		84		10-120
Nitrobenzene-d5	75		78		23-120
2-Fluorobiphenyl	75		83		30-120
2,4,6-Tribromophenol	82		88		10-136
4-Terphenyl-d14	80		87		18-120

METALS

Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-01

Date Collected: 08/08/18 08:20

Client ID: TP-1 (4-6)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.77		mg/kg	0.530	0.110	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Barium, Total	82.0		mg/kg	0.530	0.092	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Beryllium, Total	0.397		mg/kg	0.265	0.018	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Cadmium, Total	0.344	J	mg/kg	0.530	0.052	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Chromium, Total	11.1		mg/kg	0.530	0.051	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Copper, Total	17.5		mg/kg	0.530	0.137	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Lead, Total	152		mg/kg	2.65	0.142	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Manganese, Total	335		mg/kg	0.530	0.084	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Mercury, Total	0.655		mg/kg	0.086	0.018	1	08/15/18 05:00	08/15/18 20:35	EPA 7471B	1,7471B	EA
Nickel, Total	11.9		mg/kg	1.32	0.128	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Selenium, Total	0.408	J	mg/kg	1.06	0.137	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.530	0.150	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB
Zinc, Total	61.2		mg/kg	2.65	0.155	1	08/15/18 13:40	08/15/18 17:06	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-03

Date Collected: 08/08/18 10:38

Client ID: TP-4 (0.5-3.5)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	9.15		mg/kg	0.507	0.105	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Barium, Total	66.4		mg/kg	0.507	0.088	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Beryllium, Total	0.167	J	mg/kg	0.254	0.017	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Cadmium, Total	1.03		mg/kg	0.507	0.050	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Chromium, Total	31.6		mg/kg	0.507	0.049	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Copper, Total	98.4		mg/kg	0.507	0.131	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Lead, Total	373		mg/kg	2.54	0.136	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Manganese, Total	236		mg/kg	0.507	0.081	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Mercury, Total	0.127		mg/kg	0.085	0.018	1	08/15/18 05:00	08/15/18 20:37	EPA 7471B	1,7471B	EA
Nickel, Total	630		mg/kg	1.27	0.123	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Selenium, Total	0.771	J	mg/kg	1.01	0.131	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.507	0.143	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB
Zinc, Total	979		mg/kg	2.54	0.148	1	08/15/18 13:40	08/15/18 17:11	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-05

Date Collected: 08/08/18 11:46

Client ID: TP-8 (1-4)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.94		mg/kg	0.425	0.089	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Barium, Total	85.0		mg/kg	0.425	0.074	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Beryllium, Total	0.383		mg/kg	0.213	0.014	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Cadmium, Total	0.413	J	mg/kg	0.425	0.042	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Chromium, Total	9.77		mg/kg	0.425	0.041	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Copper, Total	18.1		mg/kg	0.425	0.110	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Lead, Total	105		mg/kg	2.13	0.114	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Manganese, Total	241		mg/kg	0.425	0.068	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Mercury, Total	0.134		mg/kg	0.071	0.015	1	08/15/18 05:00	08/15/18 20:38	EPA 7471B	1,7471B	EA
Nickel, Total	10.3		mg/kg	1.06	0.103	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Selenium, Total	0.557	J	mg/kg	0.851	0.110	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.425	0.120	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB
Zinc, Total	78.2		mg/kg	2.13	0.125	1	08/15/18 13:40	08/15/18 18:31	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-07

Date Collected: 08/08/18 14:15

Client ID: TP-12 (1-3)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	10.9		mg/kg	0.429	0.089	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Barium, Total	62.6		mg/kg	0.429	0.075	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Beryllium, Total	0.322		mg/kg	0.214	0.014	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Cadmium, Total	2.11		mg/kg	0.429	0.042	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Chromium, Total	13.5		mg/kg	0.429	0.041	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Copper, Total	55.3		mg/kg	0.429	0.111	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Lead, Total	318		mg/kg	2.14	0.115	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Manganese, Total	332		mg/kg	0.429	0.068	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Mercury, Total	0.254		mg/kg	0.069	0.015	1	08/15/18 05:00	08/15/18 20:40	EPA 7471B	1,7471B	EA
Nickel, Total	16.5		mg/kg	1.07	0.104	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Selenium, Total	1.62		mg/kg	0.858	0.111	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Silver, Total	0.146	J	mg/kg	0.429	0.121	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB
Zinc, Total	263		mg/kg	2.14	0.126	1	08/15/18 13:40	08/15/18 19:37	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-08

Date Collected: 08/08/18 15:40

Client ID: TP-14 (3-5)

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.09		mg/kg	0.502	0.104	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Barium, Total	115		mg/kg	0.502	0.087	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Beryllium, Total	0.376		mg/kg	0.251	0.017	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Cadmium, Total	0.838		mg/kg	0.502	0.049	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Chromium, Total	12.5		mg/kg	0.502	0.048	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Copper, Total	49.2		mg/kg	0.502	0.129	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Lead, Total	267		mg/kg	2.51	0.134	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Manganese, Total	572		mg/kg	0.502	0.080	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Mercury, Total	0.387		mg/kg	0.082	0.017	1	08/15/18 05:00	08/15/18 20:42	EPA 7471B	1,7471B	EA
Nickel, Total	16.4		mg/kg	1.25	0.121	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Selenium, Total	1.10		mg/kg	1.00	0.129	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.502	0.142	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB
Zinc, Total	358		mg/kg	2.51	0.147	1	08/15/18 13:40	08/15/18 19:42	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-09

Date Collected: 08/08/18 15:30

Client ID: SS-1

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.75		mg/kg	0.525	0.109	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Barium, Total	44.0		mg/kg	0.525	0.091	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Beryllium, Total	0.352		mg/kg	0.263	0.017	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Cadmium, Total	0.546		mg/kg	0.525	0.052	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Chromium, Total	12.5		mg/kg	0.525	0.050	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Copper, Total	21.5		mg/kg	0.525	0.136	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Lead, Total	39.5		mg/kg	2.63	0.141	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Manganese, Total	314		mg/kg	0.525	0.084	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Mercury, Total	0.103		mg/kg	0.086	0.018	1	08/15/18 05:00	08/15/18 20:44	EPA 7471B	1,7471B	EA
Nickel, Total	9.82		mg/kg	1.31	0.127	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Selenium, Total	0.578	J	mg/kg	1.05	0.136	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.525	0.149	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB
Zinc, Total	81.5		mg/kg	2.63	0.154	1	08/15/18 13:40	08/15/18 19:47	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-10

Date Collected: 08/08/18 15:55

Client ID: SS-2

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 63%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.28		mg/kg	0.626	0.130	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Barium, Total	79.6		mg/kg	0.626	0.109	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Beryllium, Total	1.10		mg/kg	0.313	0.021	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Cadmium, Total	0.845		mg/kg	0.626	0.061	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Chromium, Total	10.2		mg/kg	0.626	0.060	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Copper, Total	27.1		mg/kg	0.626	0.161	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Lead, Total	144		mg/kg	3.13	0.168	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Manganese, Total	423		mg/kg	0.626	0.100	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Mercury, Total	0.304		mg/kg	0.10	0.021	1	08/15/18 05:00	08/15/18 20:46	EPA 7471B	1,7471B	EA
Nickel, Total	10.9		mg/kg	1.56	0.151	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Selenium, Total	1.13	J	mg/kg	1.25	0.161	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.626	0.177	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB
Zinc, Total	161		mg/kg	3.13	0.183	1	08/15/18 13:40	08/15/18 19:52	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE**Lab Number:** L1831086**Project Number:** 0371-018-001**Report Date:** 08/16/18**SAMPLE RESULTS**

Lab ID: L1831086-11

Date Collected: 08/08/18 16:00

Client ID: SS-3

Date Received: 08/09/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 61%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	2.36		mg/kg	0.634	0.132	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Barium, Total	67.4		mg/kg	0.634	0.110	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Beryllium, Total	1.70		mg/kg	0.317	0.021	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Cadmium, Total	0.932		mg/kg	0.634	0.062	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Chromium, Total	17.7		mg/kg	0.634	0.061	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Copper, Total	23.2		mg/kg	0.634	0.163	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Lead, Total	100		mg/kg	3.17	0.170	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Manganese, Total	496		mg/kg	0.634	0.101	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Mercury, Total	0.074	J	mg/kg	0.103	0.022	1	08/15/18 05:00	08/15/18 20:51	EPA 7471B	1,7471B	EA
Nickel, Total	9.31		mg/kg	1.58	0.153	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Selenium, Total	1.30		mg/kg	1.27	0.163	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Silver, Total	0.418	J	mg/kg	0.634	0.179	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB
Zinc, Total	115		mg/kg	3.17	0.186	1	08/15/18 13:40	08/15/18 19:57	EPA 3050B	1,6010D	AB



Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03,05,07-11 Batch: WG1146557-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/15/18 05:00	08/15/18 16:28	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,03,05,07-11 Batch: WG1146818-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/15/18 13:40	08/15/18 16:36	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07-11 Batch: WG1146557-2 SRM Lot Number: D098-540								
Mercury, Total	90		-		50-149	-		
Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07-11 Batch: WG1146818-2 SRM Lot Number: D098-540								
Arsenic, Total	99		-		83-117	-		
Barium, Total	97		-		82-118	-		
Beryllium, Total	94		-		83-117	-		
Cadmium, Total	94		-		82-117	-		
Chromium, Total	101		-		83-119	-		
Copper, Total	99		-		84-116	-		
Lead, Total	96		-		82-117	-		
Manganese, Total	93		-		82-118	-		
Nickel, Total	94		-		82-117	-		
Selenium, Total	99		-		78-121	-		
Silver, Total	103		-		80-120	-		
Zinc, Total	97		-		81-119	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07-11 QC Batch ID: WG1146557-3 QC Sample: L1830435-03 Client ID: MS Sample												
Mercury, Total	0.067J	0.145	0.236	163	Q	-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07-11 QC Batch ID: WG1146818-3 WG1146818-4 QC Sample: L1831151-01 Client ID: MS Sample												
Arsenic, Total	5.66	11.2	14.5	79		14.8	83		75-125	2		20
Barium, Total	124.	186	240	62	Q	255	72	Q	75-125	6		20
Beryllium, Total	0.325J	4.66	4.38	94		4.27	93		75-125	3		20
Cadmium, Total	1.09	4.76	5.40	90		5.53	95		75-125	2		20
Chromium, Total	12.9	18.6	28.8	85		40.6	151	Q	75-125	34	Q	20
Copper, Total	85.7	23.3	81.7	0	Q	96.7	48	Q	75-125	17		20
Lead, Total	341.	47.6	300	0	Q	363	47	Q	75-125	19		20
Manganese, Total	199.	46.6	233	73	Q	195	0	Q	75-125	18		20
Nickel, Total	17.5	46.6	56.0	82		59.7	92		75-125	6		20
Selenium, Total	1.19J	11.2	12.1	108		11.7	106		75-125	3		20
Silver, Total	ND	28	27.2	97		26.6	97		75-125	2		20
Zinc, Total	164.	46.6	177	28	Q	212	105		75-125	18		20

Lab Duplicate Analysis
*Batch Quality Control***Project Name:** MAIN & DODGE**Project Number:** 0371-018-001**Lab Number:** L1831086**Report Date:** 08/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,03,05,07-11 QC Batch ID: WG1146557-4 QC Sample: L1830435-03 Client ID: DUP Sample						
Mercury, Total	0.067J	0.069J	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-01

Client ID: TP-1 (4-6)

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 08:20

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.6		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.3	0.27	1	08/11/18 15:00	08/13/18 10:59	1,9010C/9012B	LH



Project Name: MAIN & DODGE**Project Number:** 0371-018-001**Lab Number:** L1831086**Report Date:** 08/16/18**SAMPLE RESULTS****Lab ID:** L1831086-03**Client ID:** TP-4 (0.5-3.5)**Sample Location:** BUFFALO, NY**Date Collected:** 08/08/18 10:38**Date Received:** 08/09/18**Field Prep:** Not Specified**Sample Depth:****Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.1		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.3	0.27	1	08/11/18 15:00	08/13/18 11:04	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-05

Client ID: TP-8 (1-4)

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 11:46

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.1	0.23	1	08/11/18 15:00	08/13/18 11:05	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-07

Client ID: TP-12 (1-3)

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 14:15

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	0.84	J	mg/kg	1.1	0.23	1	08/11/18 15:00	08/13/18 11:06	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-08

Client ID: TP-14 (3-5)

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 15:40

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.0		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.3	0.28	1	08/11/18 15:00	08/13/18 11:07	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-09

Client ID: SS-1

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 15:30

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.0		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.3	0.28	1	08/11/18 15:00	08/13/18 11:08	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-10

Client ID: SS-2

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 15:55

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.9		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	ND		mg/kg	1.5	0.32	1	08/13/18 11:15	08/13/18 15:51	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

SAMPLE RESULTS

Lab ID: L1831086-11

Client ID: SS-3

Sample Location: BUFFALO, NY

Date Collected: 08/08/18 16:00

Date Received: 08/09/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	60.6		%	0.100	NA	1	-	08/13/18 12:41	121,2540G	JK
Cyanide, Total	0.73	J	mg/kg	1.6	0.34	1	08/13/18 11:15	08/13/18 15:52	1,9010C/9012B	LH



Project Name: MAIN & DODGE

Lab Number: L1831086

Project Number: 0371-018-001

Report Date: 08/16/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03,05,07-09 Batch: WG1145485-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	08/11/18 15:00	08/13/18 10:55	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 10-11 Batch: WG1145685-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/13/18 11:15	08/13/18 15:38	1,9010C/9012B	LH

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07-09 Batch: WG1145485-2 WG1145485-3								
Cyanide, Total	93		60	Q	80-120	43	Q	35
General Chemistry - Westborough Lab Associated sample(s): 10-11 Batch: WG1145685-2 WG1145685-3								
Cyanide, Total	58	Q	79	Q	80-120	35		35

Matrix Spike Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07-09 QC Batch ID: WG1145485-4 WG1145485-5 QC Sample: L1831086-01
Client ID: TP-1 (4-6)

Cyanide, Total	ND	13	6.0	47	Q	12	90		75-125	67	Q	35
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General Chemistry - Westborough Lab Associated sample(s): 10-11 QC Batch ID: WG1145685-4 WG1145685-5 QC Sample: L1830864-53 Client ID: MS Sample

Cyanide, Total	ND	11	7.9	69	Q	11	100		75-125	33		35
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Lab Duplicate Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1831086

Report Date: 08/16/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,05,07-11 QC Batch ID: WG1145903-1 QC Sample: L1831041-03 Client ID: DUP Sample						
Solids, Total	90.6	90.3	%	0		20

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Serial_No:08161815:20
Lab Number: L1831086
Report Date: 08/16/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1831086-01A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-01X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1831086-02A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14),HOLD-METAL(180)
L1831086-03A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-03X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1831086-04A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14),HOLD-METAL(180)
L1831086-05A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-05X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1831086-06A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		HOLD-8270(14),HOLD-METAL(180)
L1831086-07A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-07X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1831086-08A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-08X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1831086-09A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-09X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Serial_No: 08161815:20
Lab Number: L1831086
Report Date: 08/16/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1831086-10A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-10X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1831086-11A	Glass 250ml/8oz unpreserved	A	NA		4.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),TS(7)
L1831086-11X	Glass 60ml unpreserved split	A	NA		4.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1831086
Report Date: 08/16/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 2		Date Rec'd In Lab 8/10/18		ALPHA Job # L1831086			
		Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Main + Dodge</u> Project Location: <u>Scituate NY</u> Project # <u>0371-018-001</u> (Use Project name as Project #) ☒		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQuIS (1 File) ☐ EQuIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO #	
Client Information Client: <u>Turnkey Environmental</u> Address: <u>2558 Highway 100</u> <u>Lackawanna NY 14218</u> Phone: <u>(716) 818-8558</u> Fax: <u>(716) 856-0583</u> Email: <u>T.Belton@Turnkeyllc.com</u>		Project Manager: <u>Chris Burton</u> ALPHAQuote #: Turn-Around Time Standard ☒ Due Date: Rush (only if pre approved) ☐ # of Days:		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:					
These samples have been previously analyzed by Alpha ☐						ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do ☐ Preservation ☐ Lab to do (Please Specify below)		Total Bottles	
Other project specific requirements/comments:						8270 SVOC BN ONLY Part 375 METALS		Sample Specific Comments			
Please specify Metals or TAL.											
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials			
31086-01		TP-1 (4-6)		8/8/18 820		Soil		TAB			
02		TP-3 (3.5-5.5)		955						Hold	
03		TP-4 (0.5-3.5)		1038						Hold	
04		TP-6 (0-1.5)		1053						Hold	
05		TP-8 (1-4)		1146						Hold	
06		TP-9 (0.5-2.5)		1230						Hold	
07		TP-12 (1-3)		1415							
08		TP-14 (3-5)		1540							
09		SS-1		1530							
10		SS-2		1555							
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type A A		Preservative A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>8/9/18 0730</u>		Received By: <u>[Signature]</u>		Date/Time: <u>8/9/18 9:15</u>					
Form No: 01-25 HC (rev. 30-Sept-2013)											

2 of 2

8/10/18

L183 1086

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)



ANALYTICAL REPORT

Lab Number:	L1833279
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	MAIN & DODGE
Project Number:	0371-018-001
Report Date:	08/30/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1833279-01	TP-15 5-6'	SOIL	BUFFALO, NY	08/23/18 08:00	08/23/18
L1833279-02	TP-15 6-7'	SOIL	BUFFALO, NY	08/23/18 08:10	08/23/18
L1833279-03	TP-16 3-4'	SOIL	BUFFALO, NY	08/23/18 09:00	08/23/18
L1833279-04	TP-18 3-4'	SOIL	BUFFALO, NY	08/23/18 10:00	08/23/18

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The client IDs were specified by the client.

Cyanide, Total

The WG1150181-2 LCS recovery (74%), associated with L1833279-02, -03 and -04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

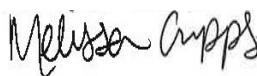
WG1150181: A Matrix Spike and Matrix Spike Duplicate were prepared with the sample batch, however, the native sample was not available for reporting; therefore, the Matrix Spike and Matrix Spike Duplicate results could not be reported.

Hexavalent Chromium

The WG1150485-4 Insoluble MS recovery (67%), performed on L1833279-02, is below the acceptance criteria. The Soluble MS recovery (0%) was also below criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 87%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Melissa Cripps

Title: Technical Director/Representative

Date: 08/30/18

ORGANICS

SEMIVOLATILES

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-02
Client ID: TP-15 6-7'
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 08:10
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/28/18 08:21
Analyst: EK
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 08/26/18 04:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	27	J	ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	700		ug/kg	110	22.	1
Naphthalene	32	J	ug/kg	190	23.	1
Benzo(a)anthracene	360		ug/kg	110	21.	1
Benzo(a)pyrene	380		ug/kg	150	46.	1
Benzo(b)fluoranthene	540		ug/kg	110	32.	1
Benzo(k)fluoranthene	150		ug/kg	110	30.	1
Chrysene	400		ug/kg	110	20.	1
Acenaphthylene	66	J	ug/kg	150	29.	1
Anthracene	130		ug/kg	110	37.	1
Benzo(ghi)perylene	300		ug/kg	150	22.	1
Fluorene	32	J	ug/kg	190	18.	1
Phenanthrene	390		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	89	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	290		ug/kg	150	26.	1
Pyrene	590		ug/kg	110	19.	1
Dibenzofuran	23	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-02
Client ID: TP-15 6-7'
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 08:10
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	60		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	55		18-120

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-03
Client ID: TP-16 3-4'
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:00
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/28/18 08:46
Analyst: EK
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 08/26/18 04:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Fluoranthene	180		ug/kg	130	24.	1
Naphthalene	26	J	ug/kg	210	26.	1
Benzo(a)anthracene	100	J	ug/kg	130	24.	1
Benzo(a)pyrene	110	J	ug/kg	170	52.	1
Benzo(b)fluoranthene	180		ug/kg	130	36.	1
Benzo(k)fluoranthene	75	J	ug/kg	130	34.	1
Chrysene	120	J	ug/kg	130	22.	1
Acenaphthylene	ND		ug/kg	170	33.	1
Anthracene	ND		ug/kg	130	41.	1
Benzo(ghi)perylene	140	J	ug/kg	170	25.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	100	J	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	170	30.	1
Pyrene	150		ug/kg	130	21.	1
Dibenzofuran	ND		ug/kg	210	20.	1
Pentachlorophenol	1400		ug/kg	170	47.	1
Phenol	ND		ug/kg	210	32.	1
2-Methylphenol	ND		ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	33.	1

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-03
Client ID: TP-16 3-4'
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:00
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	49		30-120
2,4,6-Tribromophenol	47		10-136
4-Terphenyl-d14	46		18-120

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-04 **D**
Client ID: TP-18 3-4'
Sample Location: BUFFALO, NY

Date Collected: 08/23/18 10:00
Date Received: 08/23/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/29/18 18:06
Analyst: JG
Percent Solids: 82%

Extraction Method: EPA 3546
Extraction Date: 08/26/18 04:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	6000		ug/kg	1600	210	10
Hexachlorobenzene	ND		ug/kg	1200	230	10
Fluoranthene	72000		ug/kg	1200	230	10
Naphthalene	3900		ug/kg	2000	250	10
Benzo(a)anthracene	35000		ug/kg	1200	230	10
Benzo(a)pyrene	26000		ug/kg	1600	500	10
Benzo(b)fluoranthene	38000		ug/kg	1200	340	10
Benzo(k)fluoranthene	12000		ug/kg	1200	320	10
Chrysene	33000		ug/kg	1200	210	10
Acenaphthylene	4200		ug/kg	1600	310	10
Anthracene	18000		ug/kg	1200	400	10
Benzo(ghi)perylene	13000		ug/kg	1600	240	10
Fluorene	8500		ug/kg	2000	200	10
Phenanthrene	68000		ug/kg	1200	250	10
Dibenzo(a,h)anthracene	3900		ug/kg	1200	230	10
Indeno(1,2,3-cd)pyrene	16000		ug/kg	1600	280	10
Pyrene	59000		ug/kg	1200	200	10
Dibenzofuran	6000		ug/kg	2000	190	10
Pentachlorophenol	ND		ug/kg	1600	450	10
Phenol	ND		ug/kg	2000	310	10
2-Methylphenol	ND		ug/kg	2000	310	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2900	320	10

Project Name: MAIN & DODGE**Lab Number:** L1833279**Project Number:** 0371-018-001**Report Date:** 08/30/18**SAMPLE RESULTS**

Lab ID: L1833279-04 D

Date Collected: 08/23/18 10:00

Client ID: TP-18 3-4'

Date Received: 08/23/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	58		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	53		10-136
4-Terphenyl-d14	65		18-120

Project Name: MAIN & DODGE

Lab Number: L1833279

Project Number: 0371-018-001

Report Date: 08/30/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/27/18 23:27
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 08/26/18 04:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1150710-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: MAIN & DODGE

Lab Number: L1833279

Project Number: 0371-018-001

Report Date: 08/30/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/27/18 23:27
 Analyst: EK

Extraction Method: EPA 3546
 Extraction Date: 08/26/18 04:57

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02-04 Batch: WG1150710-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1150710-2 WG1150710-3								
Acenaphthene	78		84		31-137	7		50
Hexachlorobenzene	77		85		40-140	10		50
Fluoranthene	79		89		40-140	12		50
Naphthalene	77		79		40-140	3		50
Benzo(a)anthracene	78		84		40-140	7		50
Benzo(a)pyrene	83		91		40-140	9		50
Benzo(b)fluoranthene	80		90		40-140	12		50
Benzo(k)fluoranthene	79		87		40-140	10		50
Chrysene	80		89		40-140	11		50
Acenaphthylene	78		84		40-140	7		50
Anthracene	82		89		40-140	8		50
Benzo(ghi)perylene	79		87		40-140	10		50
Fluorene	77		88		40-140	13		50
Phenanthrene	80		89		40-140	11		50
Dibenzo(a,h)anthracene	77		88		40-140	13		50
Indeno(1,2,3-cd)pyrene	80		89		40-140	11		50
Pyrene	79		88		35-142	11		50
Dibenzofuran	76		84		40-140	10		50
Pentachlorophenol	72		84		17-109	15		50
Phenol	83		84		26-90	1		50
2-Methylphenol	84		87		30-130	4		50
3-Methylphenol/4-Methylphenol	88		91		30-130	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-04 Batch: WG1150710-2 WG1150710-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		83		25-120
Phenol-d6	88		88		10-120
Nitrobenzene-d5	89		87		23-120
2-Fluorobiphenyl	76		80		30-120
2,4,6-Tribromophenol	76		87		10-136
4-Terphenyl-d14	73		81		18-120

METALS

Project Name: MAIN & DODGE**Lab Number:** L1833279**Project Number:** 0371-018-001**Report Date:** 08/30/18**SAMPLE RESULTS**

Lab ID: L1833279-02

Date Collected: 08/23/18 08:10

Client ID: TP-15 6-7'

Date Received: 08/23/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.61		mg/kg	0.440	0.092	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Barium, Total	712		mg/kg	0.440	0.077	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Beryllium, Total	0.180	J	mg/kg	0.220	0.015	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Cadmium, Total	3.01		mg/kg	0.440	0.043	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Chromium, Total	12.7		mg/kg	0.440	0.042	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Copper, Total	35.1		mg/kg	0.440	0.113	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Lead, Total	2710		mg/kg	2.20	0.118	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Manganese, Total	202		mg/kg	0.440	0.070	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Mercury, Total	0.640		mg/kg	0.073	0.016	1	08/25/18 07:30	08/29/18 16:49	EPA 7471B	1,7471B	MG
Nickel, Total	6.68		mg/kg	1.10	0.106	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Selenium, Total	0.554	J	mg/kg	0.880	0.113	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Silver, Total	0.237	J	mg/kg	0.440	0.124	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
Zinc, Total	1120		mg/kg	2.20	0.129	1	08/29/18 08:00	08/29/18 16:46	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.93	0.93	1		08/29/18 16:46	NA	107,-	



Project Name: MAIN & DODGE**Lab Number:** L1833279**Project Number:** 0371-018-001**Report Date:** 08/30/18**SAMPLE RESULTS**

Lab ID: L1833279-03

Date Collected: 08/23/18 09:00

Client ID: TP-16 3-4'

Date Received: 08/23/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.32		mg/kg	0.489	0.102	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Barium, Total	69.7		mg/kg	0.489	0.085	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Beryllium, Total	0.176	J	mg/kg	0.244	0.016	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Cadmium, Total	1.26		mg/kg	0.489	0.048	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Chromium, Total	388		mg/kg	0.489	0.047	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Copper, Total	21.9		mg/kg	0.489	0.126	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Lead, Total	2680		mg/kg	2.44	0.131	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Manganese, Total	171		mg/kg	0.489	0.078	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Mercury, Total	0.697		mg/kg	0.082	0.017	1	08/25/18 07:30	08/29/18 16:54	EPA 7471B	1,7471B	MG
Nickel, Total	6.70		mg/kg	1.22	0.118	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Selenium, Total	0.704	J	mg/kg	0.978	0.126	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Silver, Total	0.479	J	mg/kg	0.489	0.138	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
Zinc, Total	571		mg/kg	2.44	0.143	1	08/29/18 08:00	08/29/18 16:51	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	390		mg/kg	1.0	1.0	1		08/29/18 16:51	NA	107,-	



Project Name: MAIN & DODGE**Lab Number:** L1833279**Project Number:** 0371-018-001**Report Date:** 08/30/18**SAMPLE RESULTS**

Lab ID: L1833279-04

Date Collected: 08/23/18 10:00

Client ID: TP-18 3-4'

Date Received: 08/23/18

Sample Location: BUFFALO, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	6.80		mg/kg	0.473	0.098	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Barium, Total	192		mg/kg	0.473	0.082	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Beryllium, Total	0.421		mg/kg	0.236	0.016	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Cadmium, Total	1.00		mg/kg	0.473	0.046	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Chromium, Total	9.90		mg/kg	0.473	0.045	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Copper, Total	27.1		mg/kg	0.473	0.122	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Lead, Total	1070		mg/kg	2.36	0.127	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Manganese, Total	398		mg/kg	0.473	0.075	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Mercury, Total	0.676		mg/kg	0.077	0.016	1	08/25/18 07:30	08/29/18 16:56	EPA 7471B	1,7471B	MG
Nickel, Total	11.5		mg/kg	1.18	0.114	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Selenium, Total	0.530	J	mg/kg	0.946	0.122	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Silver, Total	0.549		mg/kg	0.473	0.134	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
Zinc, Total	343		mg/kg	2.36	0.138	1	08/29/18 08:00	08/29/18 16:56	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.9		mg/kg	0.98	0.98	1		08/29/18 16:56	NA	107,-	



Project Name: MAIN & DODGE

Lab Number: L1833279

Project Number: 0371-018-001

Report Date: 08/30/18

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-04 Batch: WG1150517-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	08/25/18 07:30	08/29/18 16:32	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-04 Batch: WG1151625-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Barium, Total	ND		mg/kg	0.400	0.070	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Copper, Total	ND		mg/kg	0.400	0.103	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Lead, Total	ND		mg/kg	2.00	0.107	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Silver, Total	ND		mg/kg	0.400	0.113	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/29/18 08:00	08/29/18 10:26	1,6010D	PE

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1150517-2 SRM Lot Number: D102-540								
Mercury, Total	134		-		65-134	-		
Total Metals - Mansfield Lab Associated sample(s): 02-04 Batch: WG1151625-2 SRM Lot Number: D102-540								
Arsenic, Total	94		-		83-117	-		
Barium, Total	99		-		83-118	-		
Beryllium, Total	102		-		83-116	-		
Cadmium, Total	103		-		83-118	-		
Chromium, Total	93		-		83-117	-		
Copper, Total	98		-		84-116	-		
Lead, Total	91		-		82-118	-		
Manganese, Total	116		-		82-118	-		
Nickel, Total	95		-		83-117	-		
Selenium, Total	100		-		79-121	-		
Silver, Total	97		-		80-120	-		
Zinc, Total	92		-		81-118	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1150517-3 WG1150517-4 QC Sample: L1833320-01 Client ID: MS Sample												
Mercury, Total	ND	0.132	0.198	149	Q	0.190	143	Q	80-120	4		20
Total Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1151625-3 QC Sample: L1833997-01 Client ID: MS Sample												
Arsenic, Total	4.96	10.8	13.0	74	Q	-	-		75-125	-		20
Barium, Total	98.8	180	232	74	Q	-	-		75-125	-		20
Beryllium, Total	0.401J	4.49	3.78	84		-	-		75-125	-		20
Cadmium, Total	0.345J	4.58	3.61	79		-	-		75-125	-		20
Chromium, Total	11.8	18	25.3	75		-	-		75-125	-		20
Copper, Total	11.4	22.4	27.8	73	Q	-	-		75-125	-		20
Lead, Total	9.18	45.8	36.2	59	Q	-	-		75-125	-		20
Manganese, Total	206.	44.9	382	392	Q	-	-		75-125	-		20
Nickel, Total	10.5	44.9	40.6	67	Q	-	-		75-125	-		20
Selenium, Total	ND	10.8	7.16	66	Q	-	-		75-125	-		20
Silver, Total	ND	26.9	20.1	74	Q	-	-		75-125	-		20
Zinc, Total	26.1	44.9	56.6	68	Q	-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-04 QC Batch ID: WG1151625-4 QC Sample: L1833997-01 Client ID: DUP Sample						
Arsenic, Total	4.96	3.12	mg/kg	46	Q	20

INORGANICS & MISCELLANEOUS

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-02

Client ID: TP-15 6-7'

Sample Location: BUFFALO, NY

Date Collected: 08/23/18 08:10

Date Received: 08/23/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	08/24/18 08:53	121,2540G	RI
Cyanide, Total	0.75	J	mg/kg	1.1	0.23	1	08/24/18 11:40	08/27/18 13:15	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.930	0.186	1	08/24/18 21:20	08/27/18 09:41	1,7196A	NH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-03

Client ID: TP-16 3-4'

Sample Location: BUFFALO, NY

Date Collected: 08/23/18 09:00

Date Received: 08/23/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.5		%	0.100	NA	1	-	08/24/18 08:53	121,2540G	RI
Cyanide, Total	0.90	J	mg/kg	1.2	0.26	1	08/24/18 11:40	08/27/18 13:16	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.03	0.206	1	08/24/18 21:20	08/27/18 09:41	1,7196A	NH



Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

SAMPLE RESULTS

Lab ID: L1833279-04

Client ID: TP-18 3-4'

Sample Location: BUFFALO, NY

Date Collected: 08/23/18 10:00

Date Received: 08/23/18

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.7		%	0.100	NA	1	-	08/24/18 08:53	121,2540G	RI
Cyanide, Total	0.28	J	mg/kg	1.2	0.24	1	08/24/18 11:40	08/27/18 13:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.979	0.196	1	08/24/18 21:20	08/27/18 09:41	1,7196A	NH



Project Name: MAIN & DODGE

Lab Number: L1833279

Project Number: 0371-018-001

Report Date: 08/30/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1150181-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	08/24/18 11:40	08/27/18 13:06	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG1150485-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/24/18 21:20	08/27/18 09:41	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1150181-2 WG1150181-3								
Cyanide, Total	74	Q	80		80-120	5		35
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG1150485-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Lab Number: L1833279

Project Number: 0371-018-001

Report Date: 08/30/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1150485-4 QC Sample: L1833279-02 Client ID: TP-15 6-7'												
Chromium, Hexavalent	ND	1150	772	67	Q	-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: MAIN & DODGE

Project Number: 0371-018-001

Lab Number: L1833279

Report Date: 08/30/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1150189-1 QC Sample: L1833423-01 Client ID: DUP Sample						
Solids, Total	88.2	89.7	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG1150485-6 QC Sample: L1833279-02 Client ID: TP-15 6-7'						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Serial_No:08301815:33
Lab Number: L1833279
Report Date: 08/30/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1833279-01A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HOLD-METAL(180)
L1833279-01B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		HOLD-WETCHEM(),HOLD-8270(14)
L1833279-02A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1833279-02B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),TRICR-CALC(30),TS(7),HEXCR-7196(30)
L1833279-03A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1833279-03B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),TRICR-CALC(30),TS(7),HEXCR-7196(30)
L1833279-04A	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1833279-04B	Glass 250ml/8oz unpreserved	A	NA		2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),TRICR-CALC(30),TS(7),HEXCR-7196(30)

Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers



Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: MAIN & DODGE
Project Number: 0371-018-001

Lab Number: L1833279
Report Date: 08/30/18

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



ANALYTICAL REPORT

Lab Number:	L1604591
Client:	Turnkey Environmental Restoration, LLC 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Chris Boron
Phone:	(716) 856-0599
Project Name:	MAIN & DODGE
Project Number:	T0371-016-002
Report Date:	02/29/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1604591-01	SB-1 (1-4')	SOIL	MAIN & DODGE	02/18/16 09:00	02/19/16
L1604591-02	SB-4 (0-3')	SOIL	MAIN & DODGE	02/18/16 10:30	02/19/16
L1604591-03	SB-5 (8-12')	SOIL	MAIN & DODGE	02/18/16 11:00	02/19/16
L1604591-04	SB-7 (1-4')	SOIL	MAIN & DODGE	02/18/16 12:00	02/19/16
L1604591-05	SB-8 (0-4')	SOIL	MAIN & DODGE	02/18/16 12:30	02/19/16
L1604591-06	SB-10 (0-3')	SOIL	MAIN & DODGE	02/18/16 14:00	02/19/16
L1604591-07	SB-11 (3-5')	SOIL	MAIN & DODGE	02/18/16 14:30	02/19/16
L1604591-08	SB-12 (2-4')	SOIL	MAIN & DODGE	02/18/16 15:00	02/19/16
L1604591-09	SB-14 (0-2')	SOIL	MAIN & DODGE	02/18/16 16:00	02/19/16
L1604591-10	TMW-1	WATER	MAIN & DODGE	02/18/16 15:15	02/19/16
L1604591-11	SB-9 (5-8')	SOIL	MAIN & DODGE	02/18/16 13:30	02/19/16

Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

Case Narrative (continued)

Report Submission

The sample collection date for L1604591-10 and -11, as well as the project number, were provided by the client.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Cristin Walker

Title: Technical Director/Representative

Date: 02/29/16

ORGANICS

VOLATILES

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-03
Client ID: SB-5 (8-12')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/24/16 21:03
Analyst: BN
Percent Solids: 96%

Date Collected: 02/18/16 11:00
Date Received: 02/19/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.22	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.15	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.40	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.12	1
Bromodichloromethane	ND		ug/kg	1.0	0.18	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10	1
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.13	1
Chloromethane	ND		ug/kg	5.2	0.31	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.12	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.22	1
Trichloroethene	ND		ug/kg	1.0	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.14	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-03

Date Collected: 02/18/16 11:00

Client ID: SB-5 (8-12')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.09	1
p/m-Xylene	ND		ug/kg	2.1	0.21	1
o-Xylene	ND		ug/kg	2.1	0.18	1
Xylenes, Total	ND		ug/kg	2.1	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.15	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.20	1
Acetone	ND		ug/kg	10	1.1	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	ND		ug/kg	10	0.28	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.2	0.29	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	1.0	0.12	1
sec-Butylbenzene	ND		ug/kg	1.0	0.13	1
tert-Butylbenzene	ND		ug/kg	5.2	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.13	1
Naphthalene	ND		ug/kg	5.2	0.14	1
n-Propylbenzene	ND		ug/kg	1.0	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.15	1
Methyl Acetate	ND		ug/kg	21	0.28	1
Cyclohexane	ND		ug/kg	21	0.15	1
1,4-Dioxane	ND		ug/kg	100	15.	1
Freon-113	ND		ug/kg	21	0.29	1
Methyl cyclohexane	ND		ug/kg	4.2	0.16	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-03

Date Collected: 02/18/16 11:00

Client ID: SB-5 (8-12')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08
 Client ID: SB-12 (2-4')
 Sample Location: MAIN & DODGE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/24/16 21:30
 Analyst: BN
 Percent Solids: 88%

Date Collected: 02/18/16 15:00
 Date Received: 02/19/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.7	0.33	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.13	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.15	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08

Date Collected: 02/18/16 15:00

Client ID: SB-12 (2-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.22	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylenes, Total	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.22	1
Acetone	ND		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.31	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.31	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.7	0.16	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
Methyl Acetate	ND		ug/kg	23	0.31	1
Cyclohexane	ND		ug/kg	23	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	23	0.31	1
Methyl cyclohexane	0.25	J	ug/kg	4.5	0.18	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08

Date Collected: 02/18/16 15:00

Client ID: SB-12 (2-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	99		70-130

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-09
Client ID: SB-14 (0-2')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 02/24/16 21:56
Analyst: BN
Percent Solids: 92%

Date Collected: 02/18/16 16:00
Date Received: 02/19/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.09	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.23	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.15	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.12	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.5	0.32	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.13	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.15	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-09

Date Collected: 02/18/16 16:00

Client ID: SB-14 (0-2')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.09	1
p/m-Xylene	ND		ug/kg	2.2	0.22	1
o-Xylene	ND		ug/kg	2.2	0.19	1
Xylenes, Total	ND		ug/kg	2.2	0.19	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.21	1
Acetone	2.0	J	ug/kg	11	1.1	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.30	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.30	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	1.1	0.12	1
sec-Butylbenzene	ND		ug/kg	1.1	0.13	1
tert-Butylbenzene	ND		ug/kg	5.5	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.43	1
Isopropylbenzene	ND		ug/kg	1.1	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.5	0.15	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.15	1
Methyl Acetate	ND		ug/kg	22	0.30	1
Cyclohexane	ND		ug/kg	22	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
Freon-113	ND		ug/kg	22	0.30	1
Methyl cyclohexane	ND		ug/kg	4.4	0.17	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-09

Date Collected: 02/18/16 16:00

Client ID: SB-14 (0-2')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-10
 Client ID: TMW-1
 Sample Location: MAIN & DODGE
 Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 02/26/16 12:30
 Analyst: PD

Date Collected: 02/18/16 15:15
 Date Received: 02/19/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.17	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-10

Date Collected: 02/18/16 15:15

Client ID: TMW-1

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	6.9		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	41.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-10

Date Collected: 02/18/16 15:15

Client ID: TMW-1

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-11
 Client ID: SB-9 (5-8')
 Sample Location: MAIN & DODGE
 Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 02/25/16 03:39
 Analyst: PK
 Percent Solids: 86%

Date Collected: 02/18/16 13:30
 Date Received: 02/19/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.2	0.16	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	5.8	0.34	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.14	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.2	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.16	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-11

Date Collected: 02/18/16 13:30

Client ID: SB-9 (5-8')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.23	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylenes, Total	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	12	0.22	1
Acetone	1.7	J	ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.31	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
2-Hexanone	ND		ug/kg	12	0.77	1
Bromochloromethane	ND		ug/kg	5.8	0.32	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	1.2	0.13	1
sec-Butylbenzene	ND		ug/kg	1.2	0.14	1
tert-Butylbenzene	ND		ug/kg	5.8	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.8	0.16	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.16	1
Methyl Acetate	ND		ug/kg	23	0.31	1
Cyclohexane	ND		ug/kg	23	0.17	1
1,4-Dioxane	ND		ug/kg	120	17.	1
Freon-113	ND		ug/kg	23	0.32	1
Methyl cyclohexane	ND		ug/kg	4.6	0.18	1

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-11

Date Collected: 02/18/16 13:30

Client ID: SB-9 (5-8')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/24/16 13:08
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,08-09 Batch: WG868262-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	0.57	J	ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/24/16 13:08
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,08-09 Batch: WG868262-3					
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/24/16 13:08
 Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03,08-09 Batch: WG868262-3					
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/24/16 21:15
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG868376-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	0.83	J	ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/24/16 21:15
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG868376-3					
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	1.6	J	ug/kg	10	1.0
Carbon disulfide	1.2	J	ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/24/16 21:15
 Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG868376-3					
Methyl Acetate	ND		ug/kg	20	0.27
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
Methyl cyclohexane	ND		ug/kg	4.0	0.15

Tentatively Identified Compounds

Total TIC Compounds	6.5		ug/kg
Unknown	2.2	J	ug/kg
Unknown	4.3	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/26/16 11:05
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG868717-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/26/16 11:05
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG868717-3					
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 02/26/16 11:05
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG868717-3					
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,08-09 Batch: WG868262-1 WG868262-2								
Methylene chloride	98		98		70-130	0		30
1,1-Dichloroethane	98		98		70-130	0		30
Chloroform	98		100		70-130	2		30
Carbon tetrachloride	105		104		70-130	1		30
1,2-Dichloropropane	96		96		70-130	0		30
Dibromochloromethane	107		109		70-130	2		30
2-Chloroethylvinyl ether	91		95		70-130	4		30
1,1,2-Trichloroethane	108		110		70-130	2		30
Tetrachloroethene	122		121		70-130	1		30
Chlorobenzene	111		113		70-130	2		30
Trichlorofluoromethane	122		119		70-139	2		30
1,2-Dichloroethane	94		94		70-130	0		30
1,1,1-Trichloroethane	103		102		70-130	1		30
Bromodichloromethane	96		98		70-130	2		30
trans-1,3-Dichloropropene	108		110		70-130	2		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	102		101		70-130	1		30
Bromoform	103		108		70-130	5		30
1,1,2,2-Tetrachloroethane	109		110		70-130	1		30
Benzene	101		100		70-130	1		30
Toluene	112		112		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,08-09 Batch: WG868262-1 WG868262-2								
Ethylbenzene	112		112		70-130	0		30
Chloromethane	103		99		52-130	4		30
Bromomethane	99		96		57-147	3		30
Vinyl chloride	99		95		67-130	4		30
Chloroethane	101		105		50-151	4		30
1,1-Dichloroethene	106		104		65-135	2		30
trans-1,2-Dichloroethene	103		102		70-130	1		30
Trichloroethene	102		101		70-130	1		30
1,2-Dichlorobenzene	115		114		70-130	1		30
1,3-Dichlorobenzene	118		117		70-130	1		30
1,4-Dichlorobenzene	117		115		70-130	2		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	112		112		70-130	0		30
o-Xylene	111		112		70-130	1		30
cis-1,2-Dichloroethene	100		101		70-130	1		30
Dibromomethane	98		99		70-130	1		30
Styrene	112		113		70-130	1		30
Dichlorodifluoromethane	106		102		30-146	4		30
Acetone	96		92		54-140	4		30
Carbon disulfide	106		104		59-130	2		30
2-Butanone	86		89		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,08-09 Batch: WG868262-1 WG868262-2								
Vinyl acetate	93		94		70-130	1		30
4-Methyl-2-pentanone	84		87		70-130	4		30
1,2,3-Trichloropropane	106		107		68-130	1		30
2-Hexanone	96		99		70-130	3		30
Bromochloromethane	104		103		70-130	1		30
2,2-Dichloropropane	100		100		70-130	0		30
1,2-Dibromoethane	108		112		70-130	4		30
1,3-Dichloropropane	106		108		69-130	2		30
1,1,1,2-Tetrachloroethane	109		110		70-130	1		30
Bromobenzene	115		114		70-130	1		30
n-Butylbenzene	121		118		70-130	3		30
sec-Butylbenzene	120		117		70-130	3		30
tert-Butylbenzene	118		115		70-130	3		30
o-Chlorotoluene	116		113		70-130	3		30
p-Chlorotoluene	116		113		70-130	3		30
1,2-Dibromo-3-chloropropane	97		102		68-130	5		30
Hexachlorobutadiene	123		122		67-130	1		30
Isopropylbenzene	117		114		70-130	3		30
p-Isopropyltoluene	120		118		70-130	2		30
Naphthalene	107		111		70-130	4		30
Acrylonitrile	94		95		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,08-09 Batch: WG868262-1 WG868262-2								
Isopropyl Ether	94		94		66-130	0		30
tert-Butyl Alcohol	85		89		70-130	5		30
n-Propylbenzene	117		114		70-130	3		30
1,2,3-Trichlorobenzene	117		118		70-130	1		30
1,2,4-Trichlorobenzene	119		120		70-130	1		30
1,3,5-Trimethylbenzene	117		114		70-130	3		30
1,2,4-Trimethylbenzene	117		114		70-130	3		30
Methyl Acetate	86		92		51-146	7		30
Ethyl Acetate	126		130		70-130	3		30
Acrolein	91		93		70-130	2		30
Cyclohexane	106		105		59-142	1		30
1,4-Dioxane	79		83		65-136	5		30
Freon-113	111		110		50-139	1		30
1,4-Diethylbenzene	121		119		70-130	2		30
4-Ethyltoluene	118		115		70-130	3		30
1,2,4,5-Tetramethylbenzene	118		116		70-130	2		30
Tetrahydrofuran	90		93		66-130	3		30
Ethyl ether	103		80		67-130	25		30
trans-1,4-Dichloro-2-butene	107		109		70-130	2		30
Methyl cyclohexane	108		105		70-130	3		30
Ethyl-Tert-Butyl-Ether	94		95		70-130	1		30

Lab Control Sample Analysis**Batch Quality Control****Project Name:** MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,08-09 Batch: WG868262-1 WG868262-2								
Tertiary-Amyl Methyl Ether	93		95		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		92		70-130
Toluene-d8	104		105		70-130
4-Bromofluorobenzene	96		94		70-130
Dibromofluoromethane	101		100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG868376-1 WG868376-2								
Methylene chloride	84		85		70-130	1		30
1,1-Dichloroethane	91		94		70-130	3		30
Chloroform	91		93		70-130	2		30
Carbon tetrachloride	78		84		70-130	7		30
1,2-Dichloropropane	94		97		70-130	3		30
Dibromochloromethane	90		92		70-130	2		30
2-Chloroethylvinyl ether	93		94		70-130	1		30
1,1,2-Trichloroethane	98		100		70-130	2		30
Tetrachloroethene	79		84		70-130	6		30
Chlorobenzene	86		90		70-130	5		30
Trichlorofluoromethane	69	Q	74		70-139	7		30
1,2-Dichloroethane	98		99		70-130	1		30
1,1,1-Trichloroethane	83		88		70-130	6		30
Bromodichloromethane	90		93		70-130	3		30
trans-1,3-Dichloropropene	88		92		70-130	4		30
cis-1,3-Dichloropropene	88		90		70-130	2		30
1,1-Dichloropropene	82		88		70-130	7		30
Bromoform	88		89		70-130	1		30
1,1,2,2-Tetrachloroethane	99		100		70-130	1		30
Benzene	88		92		70-130	4		30
Toluene	86		90		70-130	5		30

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG868376-1 WG868376-2								
Ethylbenzene	84		89		70-130	6		30
Chloromethane	86		90		52-130	5		30
Bromomethane	86		84		57-147	2		30
Vinyl chloride	80		85		67-130	6		30
Chloroethane	91		96		50-151	5		30
1,1-Dichloroethene	77		84		65-135	9		30
trans-1,2-Dichloroethene	83		86		70-130	4		30
Trichloroethene	85		88		70-130	3		30
1,2-Dichlorobenzene	89		89		70-130	0		30
1,3-Dichlorobenzene	87		88		70-130	1		30
1,4-Dichlorobenzene	88		88		70-130	0		30
Methyl tert butyl ether	94		94		66-130	0		30
p/m-Xylene	85		89		70-130	5		30
o-Xylene	86		89		70-130	3		30
cis-1,2-Dichloroethene	87		90		70-130	3		30
Dibromomethane	95		94		70-130	1		30
Styrene	88		91		70-130	3		30
Dichlorodifluoromethane	59		63		30-146	7		30
Acetone	96		90		54-140	6		30
Carbon disulfide	85		98		59-130	14		30
2-Butanone	92		92		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG868376-1 WG868376-2								
Vinyl acetate	96		96		70-130	0		30
4-Methyl-2-pentanone	92		95		70-130	3		30
1,2,3-Trichloropropane	99		100		68-130	1		30
2-Hexanone	84		82		70-130	2		30
Bromochloromethane	96		97		70-130	1		30
2,2-Dichloropropane	81		84		70-130	4		30
1,2-Dibromoethane	91		93		70-130	2		30
1,3-Dichloropropane	96		99		69-130	3		30
1,1,1,2-Tetrachloroethane	87		91		70-130	4		30
Bromobenzene	85		87		70-130	2		30
n-Butylbenzene	88		90		70-130	2		30
sec-Butylbenzene	83		87		70-130	5		30
tert-Butylbenzene	81		85		70-130	5		30
o-Chlorotoluene	88		90		70-130	2		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	80		78		68-130	3		30
Hexachlorobutadiene	76		79		67-130	4		30
Isopropylbenzene	83		88		70-130	6		30
p-Isopropyltoluene	82		84		70-130	2		30
Naphthalene	86		85		70-130	1		30
Acrylonitrile	105		111		70-130	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG868376-1 WG868376-2								
Isopropyl Ether	95		97		66-130	2		30
tert-Butyl Alcohol	91		92		70-130	1		30
n-Propylbenzene	85		88		70-130	3		30
1,2,3-Trichlorobenzene	86		85		70-130	1		30
1,2,4-Trichlorobenzene	85		83		70-130	2		30
1,3,5-Trimethylbenzene	84		87		70-130	4		30
1,2,4-Trimethylbenzene	85		87		70-130	2		30
Methyl Acetate	98		98		51-146	0		30
Ethyl Acetate	158	Q	149	Q	70-130	6		30
Acrolein	98		97		70-130	1		30
Cyclohexane	74		79		59-142	7		30
1,4-Dioxane	103		105		65-136	2		30
Freon-113	67		73		50-139	9		30
1,4-Diethylbenzene	82		86		70-130	5		30
4-Ethyltoluene	86		89		70-130	3		30
1,2,4,5-Tetramethylbenzene	82		83		70-130	1		30
Tetrahydrofuran	118		111		66-130	6		30
Ethyl ether	95		93		67-130	2		30
trans-1,4-Dichloro-2-butene	98		97		70-130	1		30
Methyl cyclohexane	68	Q	73		70-130	7		30
Ethyl-Tert-Butyl-Ether	96		97		70-130	1		30

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG868376-1 WG868376-2								
Tertiary-Amyl Methyl Ether	92		94		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		105		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	104		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG868717-1 WG868717-2								
Methylene chloride	104		103		70-130	1		20
1,1-Dichloroethane	102		101		70-130	1		20
Chloroform	99		101		70-130	2		20
2-Chloroethylvinyl ether	100		103		70-130	3		20
Carbon tetrachloride	103		99		63-132	4		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	97		97		63-130	0		20
1,1,2-Trichloroethane	100		102		70-130	2		20
Tetrachloroethene	105		104		70-130	1		20
Chlorobenzene	100		98		75-130	2		20
Trichlorofluoromethane	102		102		62-150	0		20
1,2-Dichloroethane	97		101		70-130	4		20
1,1,1-Trichloroethane	99		103		67-130	4		20
Bromodichloromethane	100		99		67-130	1		20
trans-1,3-Dichloropropene	99		98		70-130	1		20
cis-1,3-Dichloropropene	99		99		70-130	0		20
1,1-Dichloropropene	103		101		70-130	2		20
Bromoform	95		95		54-136	0		20
1,1,2,2-Tetrachloroethane	93		100		67-130	7		20
Benzene	98		99		70-130	1		20
Toluene	99		99		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG868717-1 WG868717-2								
Ethylbenzene	98		98		70-130	0		20
Chloromethane	104		104		64-130	0		20
Bromomethane	87		82		39-139	6		20
Vinyl chloride	106		105		55-140	1		20
Chloroethane	95		97		55-138	2		20
1,1-Dichloroethene	96		97		61-145	1		20
trans-1,2-Dichloroethene	103		101		70-130	2		20
Trichloroethene	100		99		70-130	1		20
1,2-Dichlorobenzene	97		96		70-130	1		20
1,3-Dichlorobenzene	94		97		70-130	3		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	94		99		63-130	5		20
p/m-Xylene	96		94		70-130	2		20
o-Xylene	94		93		70-130	1		20
cis-1,2-Dichloroethene	101		100		70-130	1		20
Dibromomethane	94		96		70-130	2		20
1,2,3-Trichloropropane	100		99		64-130	1		20
Acrylonitrile	97		94		70-130	3		20
Isopropyl Ether	100		101		70-130	1		20
tert-Butyl Alcohol	85		90		70-130	6		20
Styrene	93		92		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG868717-1 WG868717-2								
Dichlorodifluoromethane	99		101		36-147	2		20
Acetone	90		89		58-148	1		20
Carbon disulfide	90		91		51-130	1		20
2-Butanone	98		102		63-138	4		20
Vinyl acetate	92		93		70-130	1		20
4-Methyl-2-pentanone	77		81		59-130	5		20
2-Hexanone	85		86		57-130	1		20
Acrolein	97		93		40-160	4		20
Bromochloromethane	100		96		70-130	4		20
2,2-Dichloropropane	104		106		63-133	2		20
1,2-Dibromoethane	96		99		70-130	3		20
1,3-Dichloropropane	100		103		70-130	3		20
1,1,1,2-Tetrachloroethane	99		102		64-130	3		20
Bromobenzene	96		98		70-130	2		20
n-Butylbenzene	81		79		53-136	3		20
sec-Butylbenzene	98		96		70-130	2		20
tert-Butylbenzene	99		98		70-130	1		20
o-Chlorotoluene	100		101		70-130	1		20
p-Chlorotoluene	100		102		70-130	2		20
1,2-Dibromo-3-chloropropane	96		92		41-144	4		20
Hexachlorobutadiene	97		92		63-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG868717-1 WG868717-2								
Isopropylbenzene	99		100		70-130	1		20
p-Isopropyltoluene	84		82		70-130	2		20
Naphthalene	95		96		70-130	1		20
n-Propylbenzene	99		99		69-130	0		20
1,2,3-Trichlorobenzene	98		94		70-130	4		20
1,2,4-Trichlorobenzene	93		97		70-130	4		20
1,3,5-Trimethylbenzene	100		99		64-130	1		20
1,2,4-Trimethylbenzene	98		98		70-130	0		20
Methyl Acetate	103		103		70-130	0		20
Ethyl Acetate	85		86		70-130	1		20
Cyclohexane	106		105		70-130	1		20
Ethyl-Tert-Butyl-Ether	98		100		70-130	2		20
Tertiary-Amyl Methyl Ether	95		97		66-130	2		20
1,4-Dioxane	99		96		56-162	3		20
Freon-113	100		104		70-130	4		20
1,4-Diethylbenzene	81		80		70-130	1		20
4-Ethyltoluene	97		99		70-130	2		20
1,2,4,5-Tetramethylbenzene	105		103		70-130	2		20
Ethyl ether	91		97		59-134	6		20
trans-1,4-Dichloro-2-butene	94		98		70-130	4		20
Iodomethane	72		82		70-130	13		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG868717-1 WG868717-2								
Methyl cyclohexane	104		102		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	100		97		70-130

SEMIVOLATILES

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-01
 Client ID: SB-1 (1-4')
 Sample Location: MAIN & DODGE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/27/16 18:43
 Analyst: PS
 Percent Solids: 86%

Date Collected: 02/18/16 09:00
 Date Received: 02/19/16
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	500		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	84	J	ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-01

Date Collected: 02/18/16 09:00

Client ID: SB-1 (1-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	360		ug/kg	120	22.	1
Benzo(a)pyrene	310		ug/kg	150	47.	1
Benzo(b)fluoranthene	460		ug/kg	120	32.	1
Benzo(k)fluoranthene	180		ug/kg	120	31.	1
Chrysene	340		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	180		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	88	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	45	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	150	27.	1
Pyrene	410		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	56	J	ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	79		30-120
4-Terphenyl-d14	72		18-120

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-02
 Client ID: SB-4 (0-3')
 Sample Location: MAIN & DODGE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/27/16 19:09
 Analyst: PS
 Percent Solids: 88%

Date Collected: 02/18/16 10:30
 Date Received: 02/19/16
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	92	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	2000		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	76	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	110	J	ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-02

Date Collected: 02/18/16 10:30

Client ID: SB-4 (0-3')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	1200		ug/kg	110	21.	1
Benzo(a)pyrene	1100		ug/kg	150	46.	1
Benzo(b)fluoranthene	1400		ug/kg	110	32.	1
Benzo(k)fluoranthene	540		ug/kg	110	30.	1
Chrysene	1100		ug/kg	110	20.	1
Acenaphthylene	51	J	ug/kg	150	29.	1
Anthracene	320		ug/kg	110	36.	1
Benzo(ghi)perylene	560		ug/kg	150	22.	1
Fluorene	110	J	ug/kg	190	18.	1
Phenanthrene	1200		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	140		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	650		ug/kg	150	26.	1
Pyrene	1600		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	75	J	ug/kg	190	18.	1
2-Methylnaphthalene	72	J	ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	180	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	90		30-120
4-Terphenyl-d14	77		18-120

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-04
Client ID: SB-7 (1-4')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/16 19:34
Analyst: PS
Percent Solids: 84%

Date Collected: 02/18/16 12:00
Date Received: 02/19/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	52.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	380		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	160	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	410		ug/kg	190	67.	1
Butyl benzyl phthalate	57	J	ug/kg	190	49.	1
Di-n-butylphthalate	64	J	ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	41.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-04

Date Collected: 02/18/16 12:00

Client ID: SB-7 (1-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	180		ug/kg	120	22.	1
Benzo(a)pyrene	180		ug/kg	160	47.	1
Benzo(b)fluoranthene	230		ug/kg	120	33.	1
Benzo(k)fluoranthene	71	J	ug/kg	120	31.	1
Chrysene	170		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	94	J	ug/kg	120	38.	1
Benzo(ghi)perylene	120	J	ug/kg	160	23.	1
Fluorene	38	J	ug/kg	190	19.	1
Phenanthrene	310		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	39	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	160	27.	1
Pyrene	300		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	47	J	ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	58		18-120

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-05
Client ID: SB-8 (0-4')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/16 19:59
Analyst: PS
Percent Solids: 89%

Date Collected: 02/18/16 12:30
Date Received: 02/19/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	790		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	240		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-05

Date Collected: 02/18/16 12:30

Client ID: SB-8 (0-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	360		ug/kg	110	21.	1
Benzo(a)pyrene	330		ug/kg	150	45.	1
Benzo(b)fluoranthene	450		ug/kg	110	31.	1
Benzo(k)fluoranthene	140		ug/kg	110	30.	1
Chrysene	350		ug/kg	110	19.	1
Acenaphthylene	61	J	ug/kg	150	28.	1
Anthracene	110		ug/kg	110	36.	1
Benzo(ghi)perylene	180		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	350		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	46	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	200		ug/kg	150	26.	1
Pyrene	670		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	32	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	70		18-120

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-06
Client ID: SB-10 (0-3')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/16 20:25
Analyst: PS
Percent Solids: 87%

Date Collected: 02/18/16 14:00
Date Received: 02/19/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	2000		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	59	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	39	J	ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-06

Date Collected: 02/18/16 14:00

Client ID: SB-10 (0-3')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	930		ug/kg	110	21.	1
Benzo(a)pyrene	840		ug/kg	150	46.	1
Benzo(b)fluoranthene	1100		ug/kg	110	32.	1
Benzo(k)fluoranthene	470		ug/kg	110	30.	1
Chrysene	890		ug/kg	110	20.	1
Acenaphthylene	70	J	ug/kg	150	29.	1
Anthracene	350		ug/kg	110	37.	1
Benzo(ghi)perylene	440		ug/kg	150	22.	1
Fluorene	140	J	ug/kg	190	18.	1
Phenanthrene	1500		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	110		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	500		ug/kg	150	26.	1
Pyrene	1600		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	79	J	ug/kg	190	18.	1
2-Methylnaphthalene	60	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	170	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	89		30-120
4-Terphenyl-d14	76		18-120

Project Name: MAIN & DODGE**Lab Number:** L1604591**Project Number:** T0371-016-002**Report Date:** 02/29/16**SAMPLE RESULTS**

Lab ID: L1604591-07
Client ID: SB-11 (3-5')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 02/27/16 20:50
Analyst: PS
Percent Solids: 81%

Date Collected: 02/18/16 14:30
Date Received: 02/19/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	880		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-07

Date Collected: 02/18/16 14:30

Client ID: SB-11 (3-5')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	470		ug/kg	120	23.	1
Benzo(a)pyrene	520		ug/kg	160	50.	1
Benzo(b)fluoranthene	620		ug/kg	120	34.	1
Benzo(k)fluoranthene	210		ug/kg	120	32.	1
Chrysene	470		ug/kg	120	21.	1
Acenaphthylene	120	J	ug/kg	160	31.	1
Anthracene	140		ug/kg	120	40.	1
Benzo(ghi)perylene	400		ug/kg	160	24.	1
Fluorene	40	J	ug/kg	200	20.	1
Phenanthrene	430		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	84	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	330		ug/kg	160	28.	1
Pyrene	780		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	63	J	ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	64		18-120

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08
 Client ID: SB-12 (2-4')
 Sample Location: MAIN & DODGE
 Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 02/27/16 21:16
 Analyst: PS
 Percent Solids: 88%

Date Collected: 02/18/16 15:00
 Date Received: 02/19/16
 Field Prep: Not Specified
 Extraction Method: EPA 3546
 Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	360		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08

Date Collected: 02/18/16 15:00

Client ID: SB-12 (2-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	190		ug/kg	110	21.	1
Benzo(a)pyrene	180		ug/kg	150	46.	1
Benzo(b)fluoranthene	220		ug/kg	110	32.	1
Benzo(k)fluoranthene	88	J	ug/kg	110	30.	1
Chrysene	180		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	76	J	ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	27	J	ug/kg	190	18.	1
Phenanthrene	280		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	150	26.	1
Pyrene	290		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	45	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	41		23-120
2-Fluorobiphenyl	38		30-120
4-Terphenyl-d14	33		18-120

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/26/16 09:42
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-08 Batch: WG868367-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/26/16 09:42
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-08 Batch: WG868367-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 02/26/16 09:42
 Analyst: PS

Extraction Method: EPA 3546
 Extraction Date: 02/25/16 15:19

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,04-08 Batch: WG868367-1					

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	114		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG868367-2 WG868367-3								
Acenaphthene	109		85		31-137	25		50
Benzidine	77	Q	68	Q	10-66	12		50
n-Nitrosodimethylamine	78		64		22-100	20		50
1,2,4-Trichlorobenzene	103		85		38-107	19		50
Hexachlorobenzene	129		93		40-140	32		50
Bis(2-chloroethyl)ether	96		79		40-140	19		50
2-Chloronaphthalene	106		86		40-140	21		50
1,2-Dichlorobenzene	97		80		40-140	19		50
1,3-Dichlorobenzene	91		76		40-140	18		50
1,4-Dichlorobenzene	92		78		28-104	16		50
3,3'-Dichlorobenzidine	94		84		40-140	11		50
2,4-Dinitrotoluene	128	Q	95	Q	28-89	30		50
2,6-Dinitrotoluene	127		97		40-140	27		50
Fluoranthene	124		92		40-140	30		50
4-Chlorophenyl phenyl ether	115		87		40-140	28		50
4-Bromophenyl phenyl ether	123		90		40-140	31		50
Azobenzene	123		92		40-140	29		50
Bis(2-chloroisopropyl)ether	94		80		40-140	16		50
Bis(2-chloroethoxy)methane	109		92		40-117	17		50
Hexachlorobutadiene	105		89		40-140	16		50
Hexachlorocyclopentadiene	38	Q	30	Q	40-140	24		50

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG868367-2 WG868367-3								
Hexachloroethane	100		85		40-140	16		50
Isophorone	117		97		40-140	19		50
Naphthalene	102		83		40-140	21		50
Nitrobenzene	107		86		40-140	22		50
NitrosoDiPhenylAmine(NDPA)/DPA	120		89		36-157	30		50
n-Nitrosodi-n-propylamine	116		95		32-121	20		50
Bis(2-Ethylhexyl)phthalate	111		83		40-140	29		50
Butyl benzyl phthalate	130		96		40-140	30		50
Di-n-butylphthalate	121		90		40-140	29		50
Di-n-octylphthalate	116		86		40-140	30		50
Diethyl phthalate	120		91		40-140	27		50
Dimethyl phthalate	118		90		40-140	27		50
Benzo(a)anthracene	123		90		40-140	31		50
Benzo(a)pyrene	125		92		40-140	30		50
Benzo(b)fluoranthene	120		87		40-140	32		50
Benzo(k)fluoranthene	112		90		40-140	22		50
Chrysene	116		88		40-140	27		50
Acenaphthylene	113		89		40-140	24		50
Anthracene	122		92		40-140	28		50
Benzo(ghi)perylene	114		88		40-140	26		50
Fluorene	116		88		40-140	27		50

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG868367-2 WG868367-3								
Phenanthrene	114		86		40-140	28		50
Dibenzo(a,h)anthracene	117		89		40-140	27		50
Indeno(1,2,3-cd)Pyrene	114		90		40-140	24		50
Pyrene	122		91		35-142	29		50
Biphenyl	111	Q	90		54-104	21		50
Aniline	77		59		40-140	26		50
4-Chloroaniline	113		95		40-140	17		50
2-Nitroaniline	122		91		47-134	29		50
3-Nitroaniline	87		66		26-129	27		50
4-Nitroaniline	112		80		41-125	33		50
Dibenzofuran	112		87		40-140	25		50
2-Methylnaphthalene	104		84		40-140	21		50
1,2,4,5-Tetrachlorobenzene	116		94		40-117	21		50
Acetophenone	114		94		14-144	19		50
2,4,6-Trichlorophenol	127		98		30-130	26		50
P-Chloro-M-Cresol	125	Q	95		26-103	27		50
2-Chlorophenol	104	Q	85		25-102	20		50
2,4-Dichlorophenol	119		93		30-130	25		50
2,4-Dimethylphenol	125		102		30-130	20		50
2-Nitrophenol	111		92		30-130	19		50
4-Nitrophenol	103		80		11-114	25		50

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG868367-2 WG868367-3								
2,4-Dinitrophenol	75		62		4-130	19		50
4,6-Dinitro-o-cresol	106		76		10-130	33		50
Pentachlorophenol	89		67		17-109	28		50
Phenol	102	Q	82		26-90	22		50
2-Methylphenol	113		92		30-130	20		50
3-Methylphenol/4-Methylphenol	123		99		30-130	22		50
2,4,5-Trichlorophenol	118		89		30-130	28		50
Benzoic Acid	32		26		10-66	21		50
Benzyl Alcohol	112		90		40-140	22		50
Carbazole	119		89		54-128	29		50
Benzaldehyde	126		88		40-140	36		50
Caprolactam	136	Q	101		15-130	30		50
Atrazine	162	Q	146	Q	40-140	10		50
2,3,4,6-Tetrachlorophenol	124		90		40-140	32		50
Pyridine	59		48		10-93	21		50
Parathion, ethyl	164	Q	148	Q	40-140	10		50
1-Methylnaphthalene	107		88		26-130	19		50

Lab Control Sample Analysis Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG868367-2 WG868367-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		80		25-120
Phenol-d6	93		87		10-120
Nitrobenzene-d5	96		94		23-120
2-Fluorobiphenyl	98		92		30-120
2,4,6-Tribromophenol	101		92		10-136
4-Terphenyl-d14	107		98		18-120

PCBS

Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08
Client ID: SB-12 (2-4')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/26/16 06:09
Analyst: JW
Percent Solids: 88%

Date Collected: 02/18/16 15:00
Date Received: 02/19/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/16 22:09
Cleanup Method: EPA 3665A
Cleanup Date: 02/26/16
Cleanup Method: EPA 3660B
Cleanup Date: 02/26/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	2.86	1	A
Aroclor 1221	ND		ug/kg	36.2	3.34	1	A
Aroclor 1232	ND		ug/kg	36.2	4.24	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	3.06	1	A
Aroclor 1254	ND		ug/kg	36.2	2.98	1	A
Aroclor 1260	ND		ug/kg	36.2	2.76	1	A
Aroclor 1262	ND		ug/kg	36.2	1.80	1	A
Aroclor 1268	ND		ug/kg	36.2	5.25	1	A
PCBs, Total	ND		ug/kg	36.2	1.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-09
Client ID: SB-14 (0-2')
Sample Location: MAIN & DODGE
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/25/16 16:51
Analyst: KE
Percent Solids: 92%

Date Collected: 02/18/16 16:00
Date Received: 02/19/16
Field Prep: Not Specified
Extraction Method: EPA 3546
Extraction Date: 02/24/16 22:09
Cleanup Method: EPA 3665A
Cleanup Date: 02/25/16
Cleanup Method: EPA 3660B
Cleanup Date: 02/25/16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	2.82	1	A
Aroclor 1221	ND		ug/kg	35.8	3.30	1	A
Aroclor 1232	ND		ug/kg	35.8	4.19	1	A
Aroclor 1242	ND		ug/kg	35.8	4.38	1	A
Aroclor 1248	ND		ug/kg	35.8	3.02	1	A
Aroclor 1254	ND		ug/kg	35.8	2.94	1	A
Aroclor 1260	ND		ug/kg	35.8	2.72	1	A
Aroclor 1262	ND		ug/kg	35.8	1.77	1	A
Aroclor 1268	ND		ug/kg	35.8	5.18	1	A
PCBs, Total	ND		ug/kg	35.8	1.77	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 02/25/16 17:04
 Analyst: KE

Extraction Method: EPA 3546
 Extraction Date: 02/24/16 22:09
 Cleanup Method: EPA 3665A
 Cleanup Date: 02/25/16
 Cleanup Method: EPA 3660B
 Cleanup Date: 02/25/16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 08-09 Batch: WG868104-1						
Aroclor 1016	ND		ug/kg	31.5	2.48	A
Aroclor 1221	ND		ug/kg	31.5	2.90	A
Aroclor 1232	ND		ug/kg	31.5	3.69	A
Aroclor 1242	ND		ug/kg	31.5	3.85	A
Aroclor 1248	ND		ug/kg	31.5	2.66	A
Aroclor 1254	11.3	J	ug/kg	31.5	2.59	A
Aroclor 1260	ND		ug/kg	31.5	2.40	A
Aroclor 1262	ND		ug/kg	31.5	1.56	A
Aroclor 1268	ND		ug/kg	31.5	4.56	A
PCBs, Total	11.3	J	ug/kg	31.5	1.56	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 08-09 Batch: WG868104-2 WG868104-3									
Aroclor 1016	76		70		40-140	8		50	A
Aroclor 1260	52		52		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		92		30-150	A
Decachlorobiphenyl	80		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		87		30-150	B
Decachlorobiphenyl	72		78		30-150	B

METALS

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-04

Date Collected: 02/18/16 12:00

Client ID: SB-7 (1-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	3.1		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Barium, Total	75		mg/kg	0.48	0.14	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Beryllium, Total	0.22	J	mg/kg	0.24	0.05	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.48	0.03	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Chromium, Total	6.5		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Copper, Total	12		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Lead, Total	260		mg/kg	2.4	0.10	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Manganese, Total	200		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Mercury, Total	0.29		mg/kg	0.08	0.02	1	02/23/16 09:20	02/23/16 23:21	EPA 7471B	1,7471B	EA
Nickel, Total	6.1		mg/kg	1.2	0.19	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Selenium, Total	0.50	J	mg/kg	0.95	0.14	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS
Zinc, Total	100		mg/kg	2.4	0.33	1	02/23/16 13:32	02/24/16 00:36	EPA 3050B	1,6010C	PS



Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-05
Client ID: SB-8 (0-4')
Sample Location: MAIN & DODGE
Matrix: Soil
Percent Solids: 89%

Date Collected: 02/18/16 12:30
Date Received: 02/19/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	2.0		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Barium, Total	46		mg/kg	0.45	0.13	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Beryllium, Total	0.26		mg/kg	0.22	0.05	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.45	0.03	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Chromium, Total	5.7		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Copper, Total	61		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Lead, Total	55		mg/kg	2.2	0.09	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Manganese, Total	180		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Mercury, Total	0.28		mg/kg	0.07	0.02	1	02/23/16 09:20	02/23/16 23:23	EPA 7471B	1,7471B	EA
Nickel, Total	4.8		mg/kg	1.1	0.18	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Selenium, Total	0.49	J	mg/kg	0.89	0.13	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS
Zinc, Total	49		mg/kg	2.2	0.31	1	02/23/16 13:32	02/24/16 00:40	EPA 3050B	1,6010C	PS



Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-06

Date Collected: 02/18/16 14:00

Client ID: SB-10 (0-3')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	4.2		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Barium, Total	36		mg/kg	0.45	0.14	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Beryllium, Total	0.24		mg/kg	0.23	0.05	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Cadmium, Total	0.07	J	mg/kg	0.45	0.03	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Chromium, Total	5.2		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Copper, Total	9.3		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Lead, Total	17		mg/kg	2.3	0.09	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Manganese, Total	230		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Mercury, Total	0.06	J	mg/kg	0.07	0.02	1	02/23/16 09:20	02/23/16 23:25	EPA 7471B	1,7471B	EA
Nickel, Total	5.1		mg/kg	1.1	0.18	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Selenium, Total	0.54	J	mg/kg	0.91	0.14	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.45	0.09	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS
Zinc, Total	24		mg/kg	2.3	0.32	1	02/23/16 13:32	02/24/16 01:32	EPA 3050B	1,6010C	PS



Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-07

Date Collected: 02/18/16 14:30

Client ID: SB-11 (3-5')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	15		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Barium, Total	67		mg/kg	0.48	0.14	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Beryllium, Total	0.35		mg/kg	0.24	0.05	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.48	0.03	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Chromium, Total	10		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Copper, Total	38		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Lead, Total	150		mg/kg	2.4	0.10	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Manganese, Total	220		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Mercury, Total	0.37		mg/kg	0.08	0.02	1	02/23/16 09:20	02/23/16 23:26	EPA 7471B	1,7471B	EA
Nickel, Total	11		mg/kg	1.2	0.19	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Selenium, Total	0.92	J	mg/kg	0.96	0.14	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.48	0.10	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS
Zinc, Total	110		mg/kg	2.4	0.34	1	02/23/16 13:32	02/24/16 01:37	EPA 3050B	1,6010C	PS



Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08

Date Collected: 02/18/16 15:00

Client ID: SB-12 (2-4')

Date Received: 02/19/16

Sample Location: MAIN & DODGE

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	9.7		mg/kg	0.44	0.09	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Barium, Total	77		mg/kg	0.44	0.13	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Beryllium, Total	0.17	J	mg/kg	0.22	0.04	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.44	0.03	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Chromium, Total	4.4		mg/kg	0.44	0.09	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Copper, Total	21		mg/kg	0.44	0.09	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Lead, Total	58		mg/kg	2.2	0.09	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Manganese, Total	250		mg/kg	0.44	0.09	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Mercury, Total	0.33		mg/kg	0.07	0.02	1	02/23/16 09:20	02/23/16 23:28	EPA 7471B	1,7471B	EA
Nickel, Total	5.3		mg/kg	1.1	0.18	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Selenium, Total	0.57	J	mg/kg	0.88	0.13	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Silver, Total	ND		mg/kg	0.44	0.09	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS
Zinc, Total	99		mg/kg	2.2	0.31	1	02/23/16 13:32	02/24/16 01:41	EPA 3050B	1,6010C	PS



Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04-08 Batch: WG867429-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	02/23/16 09:20	02/23/16 22:46	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04-08 Batch: WG867602-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Barium, Total	ND		mg/kg	0.40	0.12	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Beryllium, Total	ND		mg/kg	0.20	0.04	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Cadmium, Total	ND		mg/kg	0.40	0.03	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.08	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Copper, Total	ND		mg/kg	0.40	0.08	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Lead, Total	ND		mg/kg	2.0	0.08	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Manganese, Total	ND		mg/kg	0.40	0.08	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Nickel, Total	ND		mg/kg	1.0	0.16	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Selenium, Total	ND		mg/kg	0.80	0.12	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Silver, Total	ND		mg/kg	0.40	0.08	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS
Zinc, Total	0.32	J	mg/kg	2.0	0.28	1	02/23/16 13:32	02/23/16 22:30	1,6010C	PS

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-08 Batch: WG867429-2 SRM Lot Number: D088-540								
Mercury, Total	107		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 04-08 Batch: WG867602-2 SRM Lot Number: D088-540								
Arsenic, Total	86		-		79-121	-		
Barium, Total	83		-		83-117	-		
Beryllium, Total	87		-		83-117	-		
Cadmium, Total	86		-		83-117	-		
Chromium, Total	87		-		80-120	-		
Copper, Total	90		-		81-118	-		
Lead, Total	85		-		81-117	-		
Manganese, Total	86		-		81-118	-		
Nickel, Total	86		-		83-117	-		
Selenium, Total	91		-		78-122	-		
Silver, Total	86		-		75-124	-		
Zinc, Total	84		-		82-118	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG867429-4 QC Sample: L1604529-02 Client ID: MS Sample												
Mercury, Total	1.6	0.14	0.90	0	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG867602-4 QC Sample: L1604758-01 Client ID: MS Sample												
Arsenic, Total	1.9	10.7	11	85		-	-		75-125	-		20
Barium, Total	27.	178	180	86		-	-		75-125	-		20
Beryllium, Total	0.16J	4.45	4.0	90		-	-		75-125	-		20
Cadmium, Total	ND	4.54	3.6	79		-	-		75-125	-		20
Chromium, Total	9.0	17.8	24	84		-	-		75-125	-		20
Copper, Total	12.	22.2	30	81		-	-		75-125	-		20
Lead, Total	10.	45.4	48	84		-	-		75-125	-		20
Manganese, Total	150	44.5	180	67	Q	-	-		75-125	-		20
Nickel, Total	6.4	44.5	43	82		-	-		75-125	-		20
Selenium, Total	0.39J	10.7	9.8	92		-	-		75-125	-		20
Silver, Total	ND	26.7	24	90		-	-		75-125	-		20
Zinc, Total	20.	44.5	60	90		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG867429-3 QC Sample: L1604529-02 Client ID: DUP Sample						
Mercury, Total	1.6	0.74	mg/kg	74	Q	20
Total Metals - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG867602-3 QC Sample: L1604758-01 Client ID: DUP Sample						
Arsenic, Total	1.9	1.8	mg/kg	5		20
Barium, Total	27.	26	mg/kg	4		20
Beryllium, Total	0.16J	0.17J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	9.0	8.3	mg/kg	8		20
Copper, Total	12.	11	mg/kg	9		20
Lead, Total	10.	9.3	mg/kg	7		20
Manganese, Total	150	140	mg/kg	7		20
Nickel, Total	6.4	6.4	mg/kg	0		20
Selenium, Total	0.39J	0.31J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	20.	20	mg/kg	0		20

INORGANICS & MISCELLANEOUS

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-01

Client ID: SB-1 (1-4')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 09:00

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	02/22/16 10:25	30,2540G	RI



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-02

Client ID: SB-4 (0-3')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 10:30

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	02/22/16 10:25	30,2540G	RI



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-03

Client ID: SB-5 (8-12')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 11:00

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.6		%	0.100	NA	1	-	02/23/16 01:35	30,2540G	RT



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-04

Client ID: SB-7 (1-4')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 12:00

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	02/22/16 16:06	30,2540G	RI
Cyanide, Total	0.29	J	mg/kg	1.1	0.19	1	02/23/16 10:11	02/23/16 14:04	1,9010C/9012B	ML



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-05

Client ID: SB-8 (0-4')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 12:30

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	02/22/16 16:06	30,2540G	RI
Cyanide, Total	0.44	J	mg/kg	1.1	0.18	1	02/23/16 10:11	02/23/16 14:08	1,9010C/9012B	ML



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-06

Client ID: SB-10 (0-3')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 14:00

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.4		%	0.100	NA	1	-	02/22/16 16:06	30,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.18	1	02/23/16 10:11	02/23/16 14:09	1,9010C/9012B	ML



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-07

Client ID: SB-11 (3-5')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 14:30

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.4		%	0.100	NA	1	-	02/22/16 16:06	30,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.19	1	02/23/16 10:11	02/23/16 14:10	1,9010C/9012B	ML



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-08

Client ID: SB-12 (2-4')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 15:00

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	02/22/16 16:06	30,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.18	1	02/23/16 10:11	02/23/16 14:11	1,9010C/9012B	ML



Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

SAMPLE RESULTS

Lab ID: L1604591-09

Client ID: SB-14 (0-2')

Sample Location: MAIN & DODGE

Matrix: Soil

Date Collected: 02/18/16 16:00

Date Received: 02/19/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	02/23/16 01:35	30,2540G	RT



Project Name: MAIN & DODGE**Project Number:** T0371-016-002**Lab Number:** L1604591**Report Date:** 02/29/16**SAMPLE RESULTS****Lab ID:** L1604591-11**Client ID:** SB-9 (5-8')**Sample Location:** MAIN & DODGE**Matrix:** Soil**Date Collected:** 02/18/16 13:30**Date Received:** 02/19/16**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	02/23/16 01:35	30,2540G	RT



Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 04-08 Batch: WG867572-1										
Cyanide, Total	ND		mg/kg	0.85	0.14	1	02/23/16 10:11	02/23/16 13:59	1,9010C/9012B	ML

Lab Control Sample Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04-08 Batch: WG867572-2 WG867572-3								
Cyanide, Total	94		97		80-120	3		35

Matrix Spike Analysis

Batch Quality Control

Project Name: MAIN & DODGE

Lab Number: L1604591

Project Number: T0371-016-002

Report Date: 02/29/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG867572-4 WG867572-5 QC Sample: L1604591-04 Client ID: SB-7 (1-4')												
Cyanide, Total	0.29J	11	8.8	75		9.4	78		65-135	7		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG867242-1 QC Sample: L1604549-01 Client ID: DUP Sample						
Solids, Total	88.0	89.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 04-08 QC Batch ID: WG867343-1 QC Sample: L1604608-01 Client ID: DUP Sample						
Solids, Total	92.7	92.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03,09,11 QC Batch ID: WG867415-1 QC Sample: L1604666-01 Client ID: DUP Sample						
Solids, Total	91.7	94.5	%	3		20

Project Name: MAIN & DODGE

Project Number: T0371-016-002

Lab Number: L1604591

Report Date: 02/29/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1604591-01A	Glass 250ml/8oz unpreserved	A	N/A	4.2	Y	Absent	NYTCL-8270(14),TS(7)
L1604591-02A	Glass 250ml/8oz unpreserved	A	N/A	4.2	Y	Absent	NYTCL-8270(14),TS(7)
L1604591-03A	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	NYTCL-8260-R2(14),TS(7)
L1604591-04A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1604591-05A	Glass 120ml/4oz unpreserved	A	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1604591-06A	Glass 250ml/8oz unpreserved	A	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1604591-07A	Glass 250ml/8oz unpreserved	A	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L1604591-08A	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	NYTCL-8260-R2(14)
L1604591-08B	Glass 250ml/8oz unpreserved	A	N/A	4.2	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TS(7),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),HG-T(28),MN-TI(180),NYTCL-8082(14),CD-TI(180)

*Values in parentheses indicate holding time in days



Project Name: MAIN & DODGE**Project Number:** T0371-016-002**Lab Number:** L1604591**Report Date:** 02/29/16**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1604591-09A	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	NYTCL-8260- R2(14),TS(7),NYTCL-8082(14)
L1604591-10A	Vial HCl preserved	A	N/A	4.2	Y	Absent	NYTCL-8260-R2(14)
L1604591-10B	Vial HCl preserved	A	N/A	4.2	Y	Absent	NYTCL-8260-R2(14)
L1604591-10C	Vial HCl preserved	A	N/A	4.2	Y	Absent	NYTCL-8260-R2(14)
L1604591-11A	Vial Large Septa unpreserved (4o	A	N/A	4.2	Y	Absent	NYTCL-8260-R2(14),TS(7)

Container Comments

L1604591-01A

L1604591-02A

L1604591-08B

*Values in parentheses indicate holding time in days

Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: MAIN & DODGE
Project Number: T0371-016-002

Lab Number: L1604591
Report Date: 02/29/16

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene

EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene

EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.

EPA 1010A: NPW: Ignitability

EPA 6010C: NPW: Strontium; SCM: Strontium

EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation

EPA 9038: NPW: Sulfate

EPA 9050A: NPW: Specific Conductance

EPA 9056: NPW: Chloride, Nitrate, Sulfate

EPA 9065: NPW: Phenols

EPA 9251: NPW: Chloride

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam

EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane

SM 2540D: TSS

SM2540G: SCM: Percent Solids

EPA 1631E: SCM: Mercury

EPA 7474: SCM: Mercury

EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA 8270-SIM: NPW and SCM: Alkylated PAHs.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water

EPA 200.8: Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;

EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,**

SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;

EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA

350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,**

EPA 353.2: Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,**

EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page		Date Rec'd in Lab <u>2/19/16</u>		ALPHA Job # <u>C1604591</u>																																																																																																																																																																																																															
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Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: <u>Mun & Dodge</u> Project Location: <u>Mun & Dodge</u> Project # _____ (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☐ Same as Client Info PO # _____																																																																																																																																																																																																																	
Client Information Client: <u>Turkey Environmental</u> Address: <u>2558 Hamburg Tpk</u> <u>Waltham MA 01421</u> Phone: <u>(716) 818 8358</u> Fax: <u>(716) 836-0583</u> Email: <u>NSuraci@TurkeyILC.com</u>		Project Manager: <u>Chris Beron</u> ALPHAQuote #: _____ Turn-Around Time Standard ☒ Due Date: _____ Rush (only if pre approved) ☐ # of Days: _____		Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: _____																																																																																																																																																																																																																	
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments: _____ Please specify Metals or TAL. _____		ANALYSIS <u>TCL+CP-51 VOCs</u> <u>6270 Base Metals</u> <u>Part 375-2.5x Metals</u> <u>PCBs 5082</u> <u>EPA 8260 VOCs</u>		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) _____		Total Bottles																																																																																																																																																																																																																	
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