Pre-Design Investigation Report 837 Bailey Avenue Offsite IRM North Properties Buffalo, New York

Site Number C915298A

May 2022

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 625 Broadway Albany, New York 12233

Prepared by:

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able of Contents

Section		Page
1	Introduction	1-1
2	Investigation Summary	2-1
	2.1 Pre-field Investigation Activities	2-1
	2.2 Direct-push Soil Borings	
	2.3 Investigation-derived Waste Management	
	2.4 Sample Handling and Analysis	
	2.5 Quality Assurance/Quality Control	
	2.6 Data Review	2-5
3	Analytical Results	3-1
4	References	4-1
Appendi	ix	
A	Analytical Results Figures for North Properties	A-1
В	Soil Boring Logs	B-1
С	Laboratory Reports and Data Usability Reports	C-1
D	Data Usability Summary Reports	D-1

ist of Figures

Figure		Pa	age
1	Site Location, Buffalo, New	York	F-3

ist of Abbreviations and Acronyms

DER Division of Environmental Remediation

DUSR Data Usability Summary Report

E & E Ecology and Environment Engineering and Geology, P.C.

EPA (U.S.) Environmental Protection Agency

mg/kg milligrams per kilogram

MS matrix spike

MSD matrix spike duplicate

NYSDEC New York State Department of Environmental Conservation

NYSDOH New York State Department of Health

PDI pre-design investigation

QAPP Quality Assurance Project Plan

SOP standard operating procedure

TestAmerica Eurofins TestAmerica Laboratories, Inc.

1

Introduction

Pursuant to Work Assignment Number D009807-08, Ecology and Environment Engineering and Geology, P.C. (E & E) prepared this pre-design investigation (PDI) report for work performed at the offsite residential properties north of the 837 Bailey Avenue site (site) in the city of Buffalo, New York. These properties are associated with the site (Site Number C915298A). The site is located in the city of Buffalo, Erie County, New York (see Figure 1). This report was prepared on behalf of the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER).

The primary objective of this report is to document the pre-remediation concentrations and extent of arsenic and lead in surface and subsurface soils used to determine excavation areas and depths required for remediation of each property parcel within the investigation area (see Figure 1). The property parcels included in this report were selected for investigation and remediation by the DER and the New York State Department of Health (NYSDOH).

The 837 Bailey Avenue Site is approximately 8.7 acres and is located in an urban area in the city of Buffalo near the intersection of Dingens Street and Bailey Avenue. A mix of commercial and residential properties surrounds the site. The Buffalo River is located approximately 0.75 miles south of the property, and the I-190 (Niagara Thruway) is located approximately 0.5 miles south and east of the property. The site is comprised of filled land with no building structures and is mostly enclosed with fencing. The property was used as an auto salvage/wrecking facility from at least 1940 to 2014, an automotive repair facility from at least 1946 to 1986, a tire recapping facility until at least 1950, and a filling station from at least 1946 to 1950 (EnSol, Inc. 2019).

Prior to remediation of the main site under the Brownfields Cleanup Program, the primary contaminants of concern were metals (arsenic, barium, cadmium, copper, lead, and mercury) and polycyclic aromatic hydrocarbons. Remedial actions successfully achieved soil cleanup objectives for commercial use and a cover system is in place. A certificate of completion, dated December 20, 2019, was issued for this remedial action, and residual contamination at the site is managed under a site management plan.



The northern properties consist of three parcels on Bailey Avenue (853, 861, and 863 Bailey Avenue) and four parcels on Dingens Street (11, 15, 17, and 19 Dingens Street) that are part of the offsite cleanup area work performed under the New York State Superfund Program.

2

Investigation Summary

The PDI for the selected parcels consisted of investigating the level and extent of arsenic and lead contamination in soils. Activities included boundary, base map, and topographic surveys of individual property parcels; installation of 51 soil borings across seven parcels; collection of surface and subsurface soil samples from the borings; and laboratory analysis of soil samples (see Appendix A for locations).

The initial PDI sampling event was conducted on June 24 and 25, 2020. Data gap sampling occurred August 19, 2020 and a single ash sample was collected November 17, 2021. Properties sampled included 853, 861, and 863 Bailey Avenue; and 11, 15, 17, and 19 Dingens Street. Activities were conducted in accordance with the Pre-Interim Remedial Design Investigation Sampling and Analysis Plan (E & E 2020a) and Master Quality Assurance Project Plan (QAPP; E & E 2020b).

A summary of the field procedures and modifications to the planned field investigation is provided in the following subsections. Sample locations are shown on individual parcel figures in Appendix A.

2.1 Pre-field Investigation Activities

In April 2020, letters indicating NYSDEC's intention to proceed with remedial design and construction at the northern properties were mailed to the owners of the properties along with access agreements for their signatures.

Prior to initiating on-site activities, E & E contacted each property owner who had granted access to their property by phone to inform them of the proposed sampling date and discuss any property access restrictions (such as opening gates when dogs are present). E & E's drilling subcontractor contacted Dig Safely New York to request mark-out of underground utilities prior to beginning intrusive activities.

Proposed sampling locations were initially determined on a random rectangular 30- by 30-foot grid. Grid spacing meets the requirements of NYSDEC's DER-10 guidance, Section 5.4(b), which calls for post-excavation confirmation sampling on a grid no larger than 900 square feet (NYSDEC 2010). Points were placed within each grid box and manually moved or removed on individual properties based on the presence of historical sampling locations, structures, or surface ob-



structions. Additional sampling locations were added on properties where planting areas or other features to be protected or restored were observed. E & E personnel marked the proposed sampling locations in the field with paint or flags, and they made some additional adjustments based on actual conditions encountered on the property, including utility locations identified by the Dig Safely New York mark-out. These sample locations were then surveyed by a licensed land surveyor, Ravi Engineering and Land Surveying of Rochester, New York.

2.2 Direct-push Soil Borings and Grab Sampling

A total of 51 soil borings/sampling locations were installed on seven property parcels, during the PDI. The soil boring locations are shown on the property figures in Appendix A and soil boring logs are presented in Appendix B.

All soil borings were labeled with the property address (e.g., 11DINGENS, 853BAILEY) as well as a sequential sample location on the property (e.g., -01, -02).

Following completion of soil sampling, the direct-push borings in grass areas were backfilled with topsoil, while borings in asphalt were backfilled with topsoil and sealed at the top with 3 inches of cold-patch asphalt.

The majority of the soil boring locations were collected to a depth of 4 feet below grade, and up to six soil samples were collected from each of these borings from the following depth intervals: 0 to 3 inches, 3 to 6 inches, 6 to 9 inches, 9 to 12 inches, 12 to 18 inches, and 18 to 24 inches.

The majority of soil borings were installed by LaBella Associates of Buffalo, New York, using a Geoprobe Model 6620DT direct-push machine and 2¼-inch-diameter Macro-Core® probing rods with 1½-inch-diameter dedicated sleeves. In some instances, a hand-driven, 3-inch-diameter, stainless-steel soil auger was used by E & E where access was limited for the Geoprobe or needed to collect data gap samples. LaBella was subcontracted by E & E during this investigation and worked under the supervision of the E & E field team leader.

For soil borings installed using dedicated Macro-Core sleeves, the only portion of the direct-push tooling that contacted the soil samples besides the sleeves was the cutting shoe of the Macro-Core casing. The shoe and the casing itself were decontaminated before each use. When used, hand augers were also decontaminated before each use. Decontamination of all equipment, including stainless-steel spoons used for mixing soil samples was performed by scrubbing with a laboratory-grade detergent (e.g., Alconox) solution, rinsing the equipment with potable water, rinsing with 5% to 10% nitric acid solution, and performing a final rinse with deionized water.

Soils encountered during soil boring installation were generally comprised of topsoil with organics, underlain by sub-soils that mostly consisted of dark- to lightbrown silt and silty loam with varying proportions of sand, gravel, clay, and



wood. Suspected or possible fill material, indicated by the presence of black angular material, white and grey ash, and debris, was observed at some locations between the topsoil and clay sub-soil.

Soil samples were collected from the sampling device using stainless-steel spoons. The soil from specific depth intervals was placed in a dedicated paper bowl and homogenized with the spoon prior to transfer to the laboratory container.

During the sampling event, the top six samples (to 24 inches) were collected and analyzed. The remaining portion of the cores below 24 inches deep were archived by E & E for possible sampling and analysis on a later date. Only one such instance occurred at 17 Dingens Street sample -03, which required further analysis at intervals: 24 to 30 inches, 30 to 36 inches, 36 to 42 inches and 42 to 48 inches, in order to establish vertical extent of contamination.

In regard to 19 Dingens Street, during remedial construction it was observed that an ash layer originating from the 837 Bailey Site had extended onto southern portions of the northern properties. This observation prompted the NYSDEC to require a previous contractor responsible for the 837 Bailey Avenue site, to perform additional excavation to remove the observed areas of the ash layer suspected to be on the site itself. While the contractor performed the excavation; at the direction of NYSDEC, E & E, acting as a NYSDEC observer, collected a sidewall grab sample along the southwestern boundary of 19 Dingens to characterize the extent of possible contamination on the property (the owner of 19 Dingens declined remediation by NYSDEC). The sample encompassed an approximately 3-foot ash layer beginning at approximately 10 inches below ground surface and was collected using a clean nitrile glove.

All sample analyses were conducted by a NYSDEC-contracted laboratory, Eurofins TestAmerica Laboratories, Inc. (TestAmerica), and analyzed at either their Amherst, New York, or Edison, New Jersey, laboratory for total arsenic and lead.

2.3 Investigation-derived Waste Management

The following types of investigation-derived waste were generated during this investigation: unused soil from Macro-Cores, Macro-Core plastic sleeves, decontamination water, and spent personal protective equipment, primarily gloves.

The minimal amount of excess soil cuttings and decontamination liquids generated during the sampling event were combined with similar remediation wastes (excavated soil and contact water) for disposal by NYSDEC's remediation contractor.

2.4 Sample Handling and Analysis

Soil samples were collected in containers provided by TestAmerica. All samples were labeled with unique location codes and sample codes and stored on ice pending delivery to the laboratory.



All samples were tested for total arsenic and lead using U.S. Environmental Protection Agency (EPA) SW-846 Method 6010C (inductively coupled plasma). Reports were consistent with NYSDEC Analytical Services Protocol Category B deliverable requirements, and data were provided in NYSDEC EQuIS electronic data deliverables for review by E & E. Laboratory reports are provided in Appendix C.

2.5 Quality Assurance/Quality Control

Quality assurance/quality control samples, including field duplicates, rinsate blanks, and matrix spike (MS)/matrix spike duplicate (MSD) sample sets were collected in accordance with the specifications of E & E's Master QAPP for NYSDEC projects (E & E 2020b). Field duplicates and MS/MSD samples were collected at the rate of one per 20 field samples. Rinsate blanks were collected at a rate of one per day to test the decontamination procedures used on reusable sampling equipment.

Duplicate samples provide insight into the homogeneity of the sample matrix and establish a degree of confidence in the precision of field sampling and analytical method. Soil duplicates were collected by homogenizing the sample matrix, then filling additional laboratory jars. A review of the duplicate sample results is provided in the Data Usability Summary Reports (DUSRs) provided in Appendix D. If the relative percent difference between the original and duplicate sample results exceeded data review guidelines, "J" flags are added to indicate that the results are estimated. Overall, the samples exhibited good precision between duplicate/replicate sample preparations, and there were no impacts on data usability associated with the field duplicate/replicate sample results.

In addition to analytical error introduced by machinery and sample handling, error can also occasionally result from analytical process interference by a sample matrix. This can result in the reporting of analytes at concentrations higher or lower than the true concentrations. Laboratory duplicates or MSDs are aliquots of the same sample that are split prior to analysis and are treated exactly the same throughout the analytical method. The relative percent difference between the MS and MSD samples or between the normal and the laboratory duplicate indicate the precision of the analytical method. There were several instances where the native concentration in the soil sample was outside of acceptance criteria in the MS, MSD, or serial dilutions. In instances where the MS or MSD failed recovery criteria, the post-digestion spike was found to be acceptable, indicating that matrix interference was present and laboratory precision was not an issue. In these cases, the results in the parent samples were qualified "J" as estimated.

Rinsate blanks were collected daily during the sampling event when pouring deionized water over decontaminated sample equipment. Rinsate blanks were analyzed for total arsenic and lead and neither were detected in any of the blanks.



2.6 Data Review

All laboratory deliverables were reviewed in accordance with the QAPP (E & E 2020b). The data were qualified following EPA Region 2 standard operating procedure (EPA 2016). DUSRs were prepared as specified in NYSDEC's Guidance for the Development of Quality Assurance Plans and DUSRs (NYSDEC 2010) for each property. The data review included an evaluation of the following:

- Holding times;
- Initial and continuing calibration;
- Reporting limits/dilutions;
- Calibration blanks and method blanks;
- MS/MSD samples;
- Laboratory control samples;
- Field duplicates; and
- Interference checks.

E & E's data validation chemist prepared the DUSRs (see Appendix D). Any deviations from acceptable quality control specifications are discussed in the DUSRs. Qualifiers were added to the data, if appropriate, to indicate potential concerns with data usability. There were no significant impacts on data usability.

3

Analytical Results

This section presents the analytical results for the soil sampling activities to develop an understanding of the extent of soil contamination at the north properties. A total of 298 normal field samples were analyzed as part of the north properties PDI.

Arsenic was detected in all samples collected from the north properties in the range of 1.8 to 34.9 milligrams per kilogram (mg/kg or parts per million). The median concentration of arsenic was 10 mg/kg. Approximately 16% of the samples contained arsenic concentrations above the remedial goal of 16 mg/kg.

Lead was detected in all samples collected from the north properties in the range of 11.8 mg/kg to 4,170 mg/kg. The median concentration of lead was 244 mg/kg. Approximately 32% of the samples contained lead concentrations above the remedial goal of 400 mg/kg.

Total arsenic and lead concentrations reported in all samples collected during this investigation are provided on the property figures in Appendix A.

The ash sample collected after remediation of nearby properties near the southwest corner of 19 Dingens contained arsenic at 14.6 mg/kg and lead at 688 mg/kg. These concentrations are included with the property figure in Appendix A.

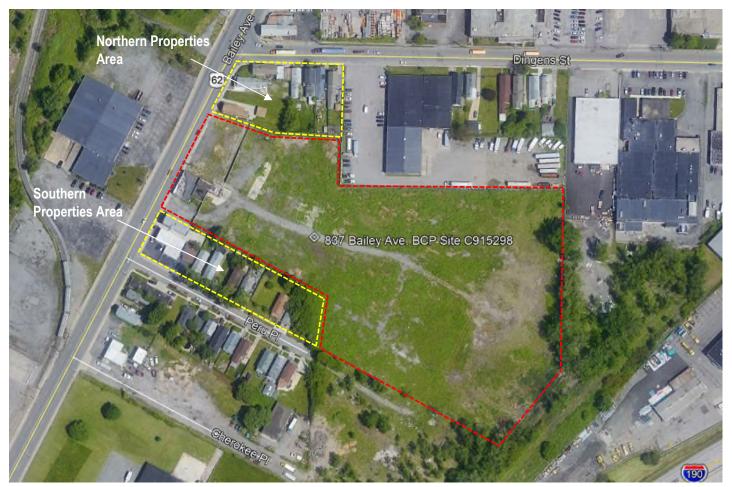
These analytical results, as well as the figures provided in Appendix A, were used to develop the property-specific preliminary remedial excavation plans that were presented to NYSDEC and NYSDOH during development of remedial excavation site plans with one exception. The owner of 19 Dingens Street allowed access to their property for sampling but declined remediation and a remedial excavation plan was not prepared.

4

References

- Ecology and Environment Engineering and Geology, P.C. 2020a. *Pre-Interim Remedial Design Investigation Sampling and Analysis Plan, 837 Bailey Avenue Offsite IRM, NYSDEC Site No. C915298A, Buffalo, New York.*Prepared for New York State Department of Environmental Conservation, Albany, New York, June 2020.
- ______. 2020b._Master Quality Assurance Project Plan (QAPP) for New York State Department of Environmental Conservation Projects. Prepared for New York State Department of Environmental Conservation, Albany, New York, May 2020.
- EnSol, Inc. 2019. Remedial Investigation/Alternative Analysis Report for 837 Bailey Ave. Site, Buffalo, NY, NYSDEC BCP Site No. C915298, prepared for Near Dingens, LLC, May 2019 (Rev. July 2019).
- New York State Department of Environmental Conservation (NYSDEC). 2010. DER-10, Technical Guidance for Site Investigation and Remediation, Division of Environmental Remediation, Albany, New York, May 2010.
- U.S. Environmental Protection Agency (EPA) Region 2. 2016. *Hazardous Waste Support Section, SOP No. HW-3a Revision 1, ISM02.2, ICP-AES Data Validation.* New York, New York, September 2016.

Figures



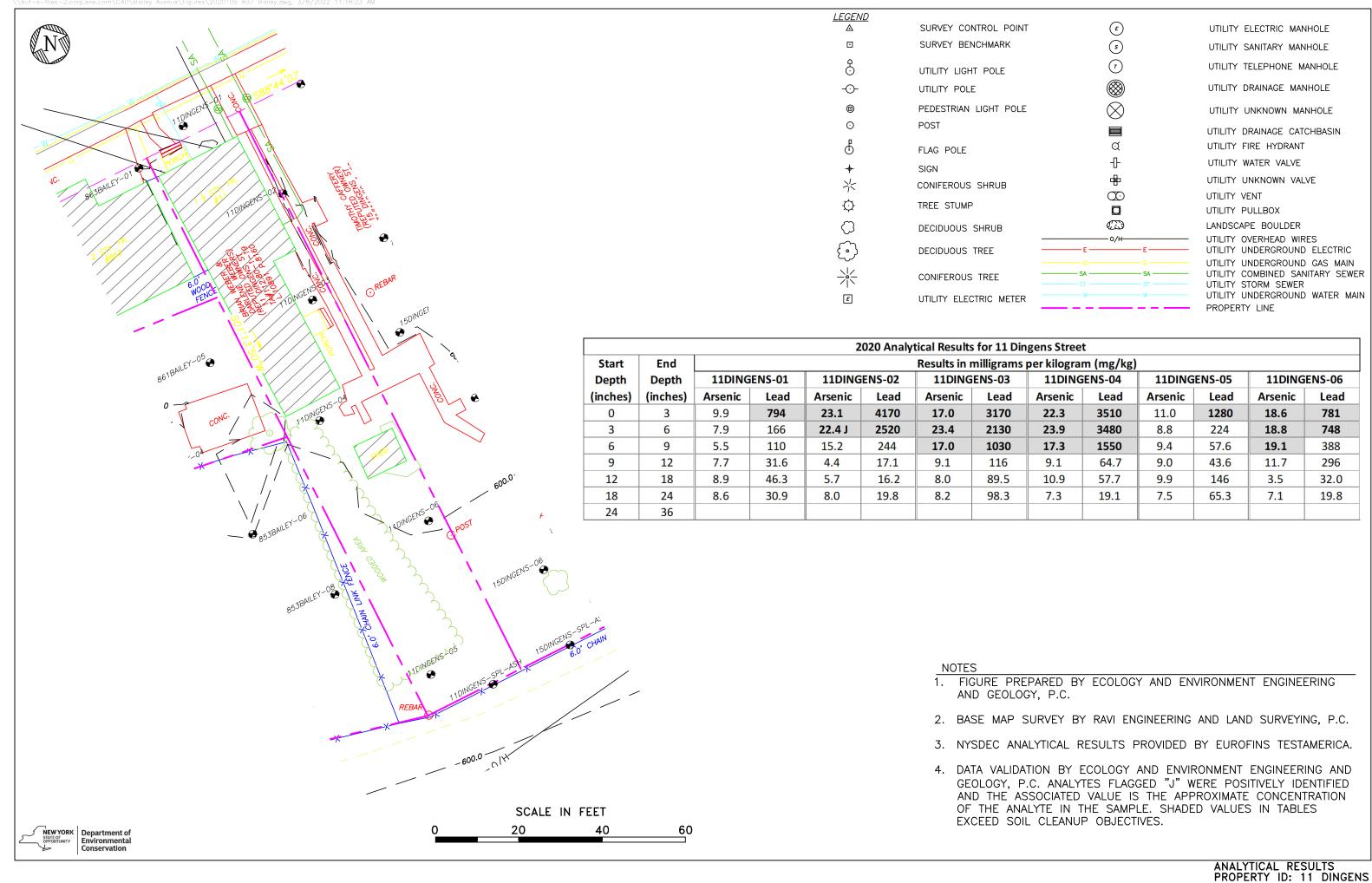
Source: Google Earth 2020

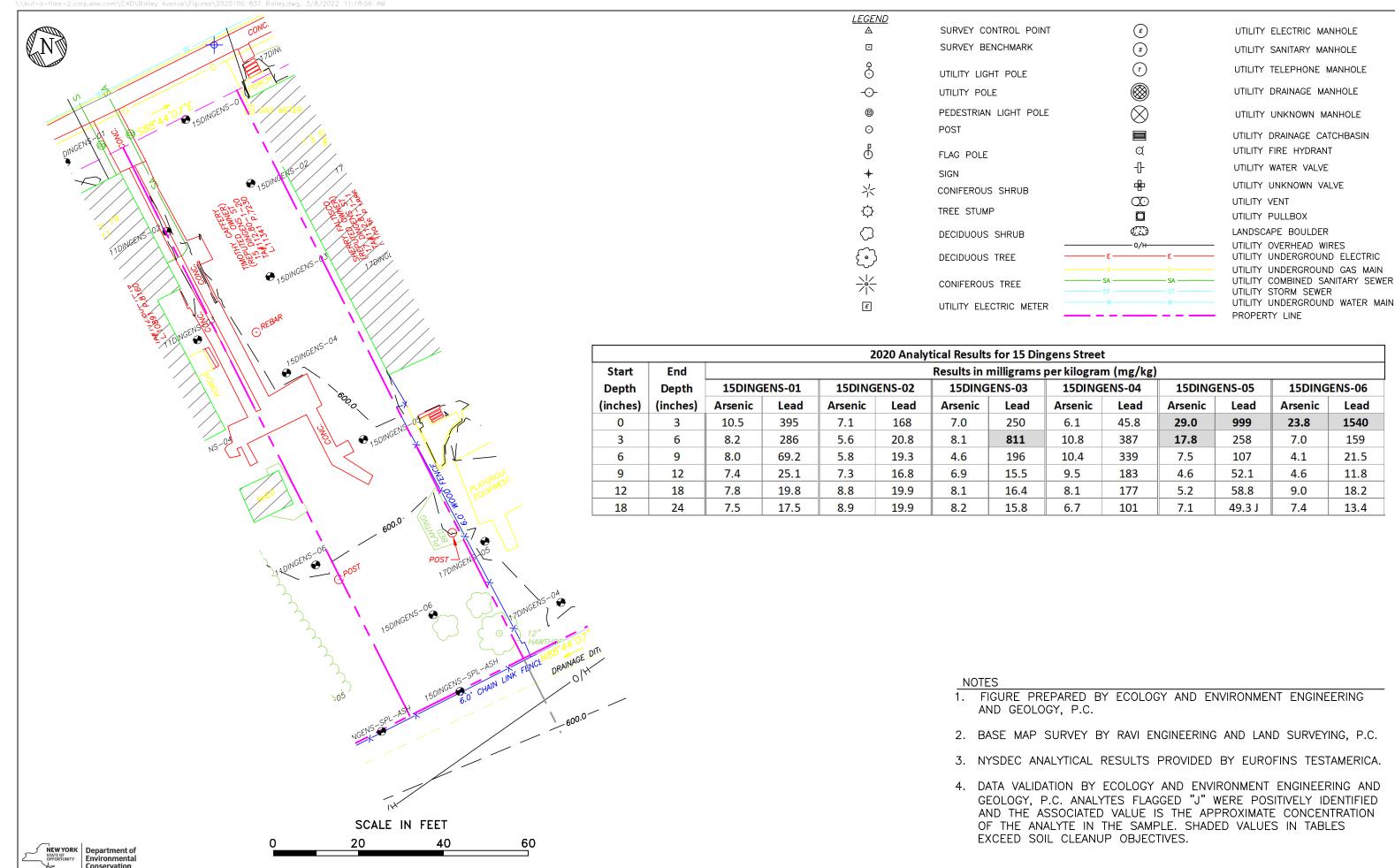
Figure 1 837 Bailey Avenue Off-Site Project 837 Bailey Avenue, Buffalo, New York Site No. C915298A





Analytical Results Figures for North Properties





ANALYTICAL RESULTS PROPERTY ID: 15 DINGENS 15 DINGENS AVENUE BAILEY AVENUE BUFFALO, NEW YORK

Lead

1540

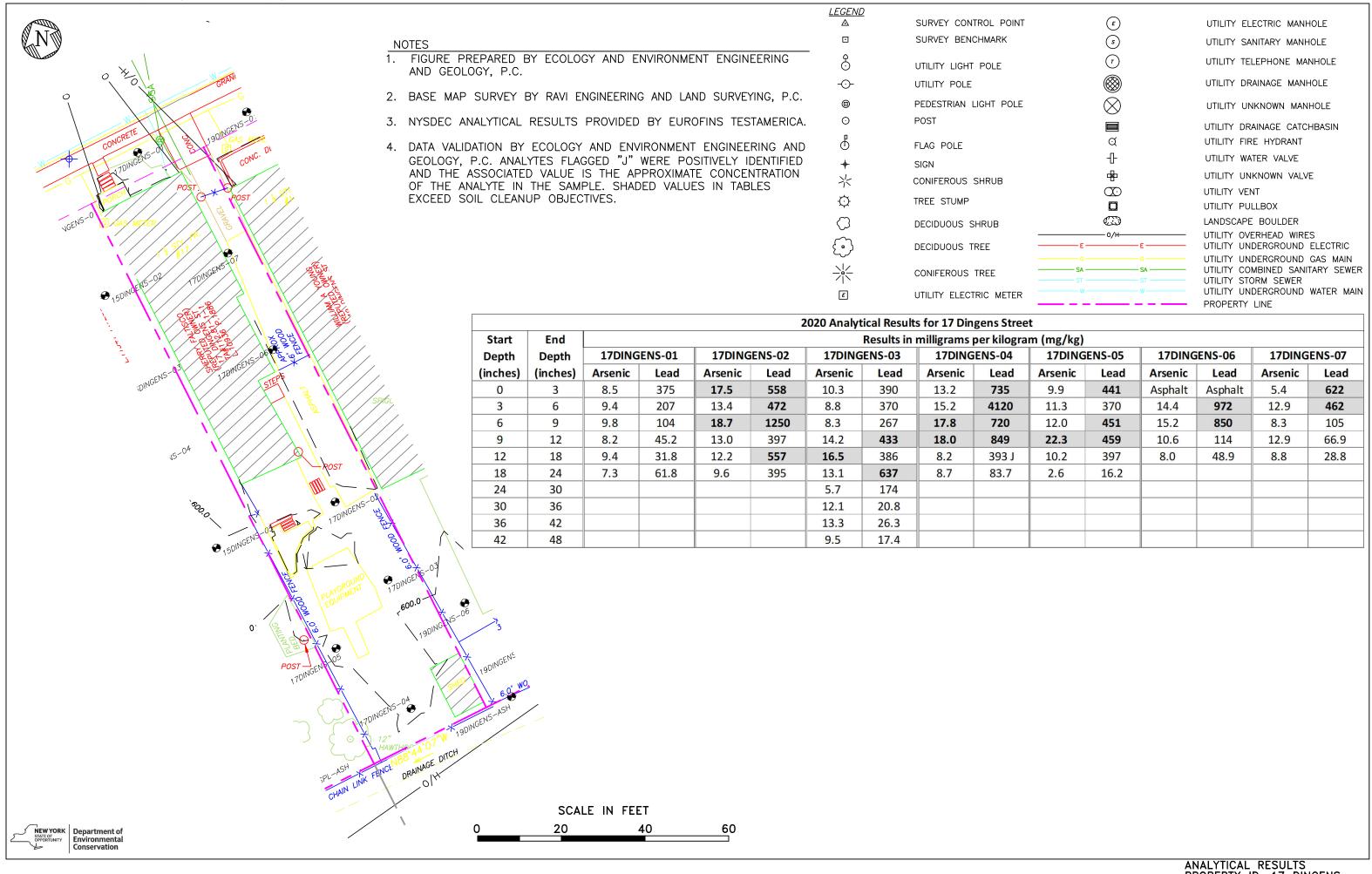
159

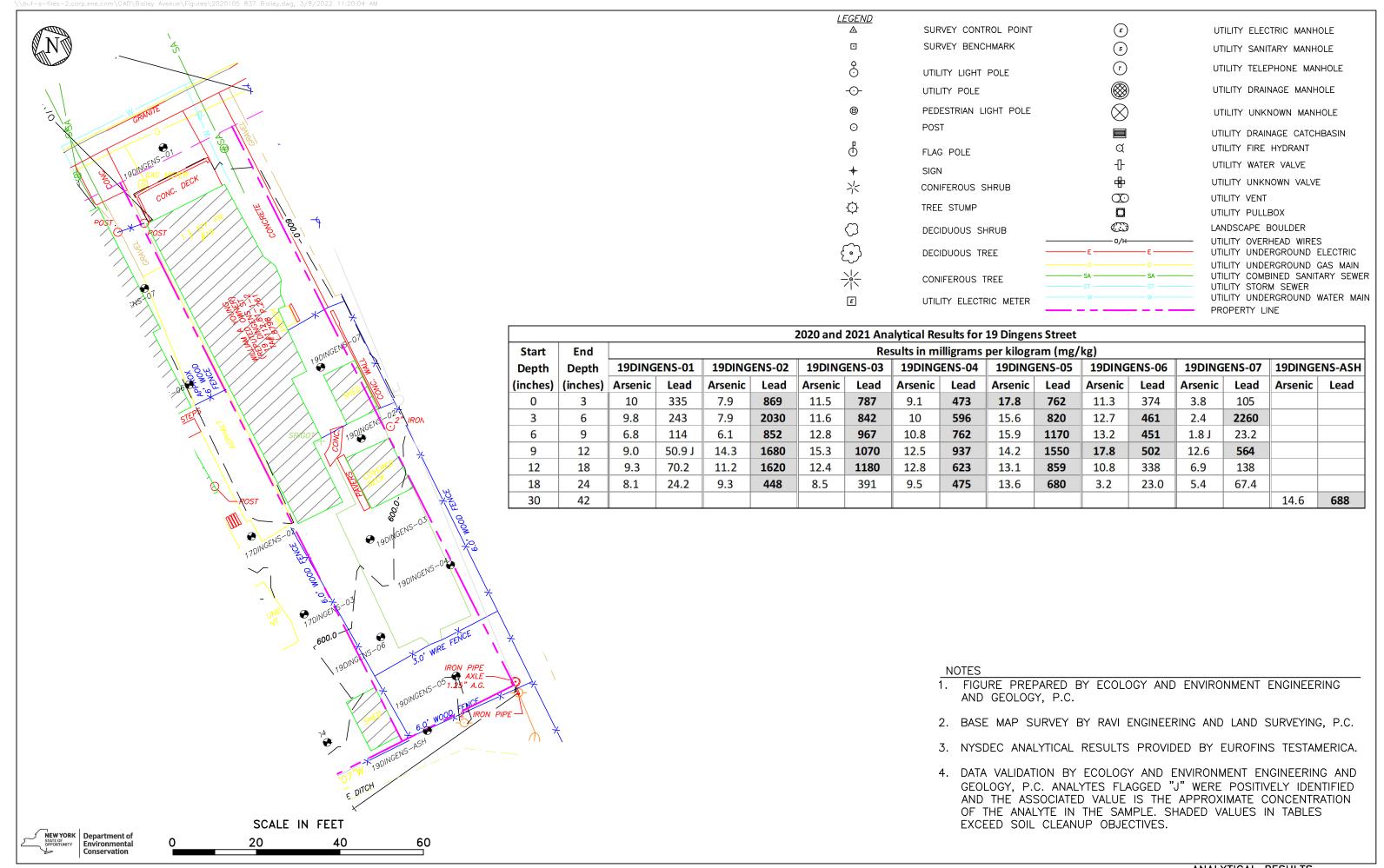
21.5

11.8

18.2

13.4







SURVEY CONTROL POINT	E	UTILITY ELECTRIC MANHOLE
SURVEY BENCHMARK	<u>s</u>	UTILITY SANITARY MANHOLE
UTILITY LIGHT POLE	T	UTILITY TELEPHONE MANHOLE
UTILITY POLE		UTILITY DRAINAGE MANHOLE
PEDESTRIAN LIGHT POLE	\bigotimes	UTILITY UNKNOWN MANHOLE
POST		UTILITY DRAINAGE CATCHBASIN
FLAG POLE	Q	UTILITY FIRE HYDRANT
SIGN	-0-	UTILITY WATER VALVE
CONIFEROUS SHRUB	₩	UTILITY UNKNOWN VALVE
TDEE CTUMP	∞	UTILITY VENT
TREE STUMP		UTILITY PULLBOX
DECIDUOUS SHRUB		LANDSCAPE BOULDER
DECIDUOUS TREE		UTILITY OVERHEAD WIRES UTILITY UNDERGROUND ELECTRIC
CONIFEROUS TREE	G G G	UTILITY UNDERGROUND GAS MAIN UTILITY COMBINED SANITARY SEWER UTILITY STORM SEWER
UTILITY ELECTRIC METER	w	UTILITY UNDERGROUND WATER MAIN PROPERTY LINE

- 1. FIGURE PREPARED BY ECOLOGY AND ENVIRONMENT ENGINEERING AND GEOLOGY, P.C.
- 2. BASE MAP SURVEY BY RAVI ENGINEERING AND LAND SURVEYING, P.C.
- 3. NYSDEC ANALYTICAL RESULTS PROVIDED BY EUROFINS TESTAMERICA.
- 4. DATA VALIDATION BY ECOLOGY AND ENVIRONMENT ENGINEERING AND GEOLOGY, P.C. ANALYTES FLAGGED "J" WERE POSITIVELY IDENTIFIED AND THE ASSOCIATED VALUE IS THE APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE. "N/A" IN THE TABLE INDICATES THAT A SAMPLE COULD NOT BE COLLECTED. SHADED VALUES IN TABLES EXCEED SOIL CLEANUP OBJECTIVES.

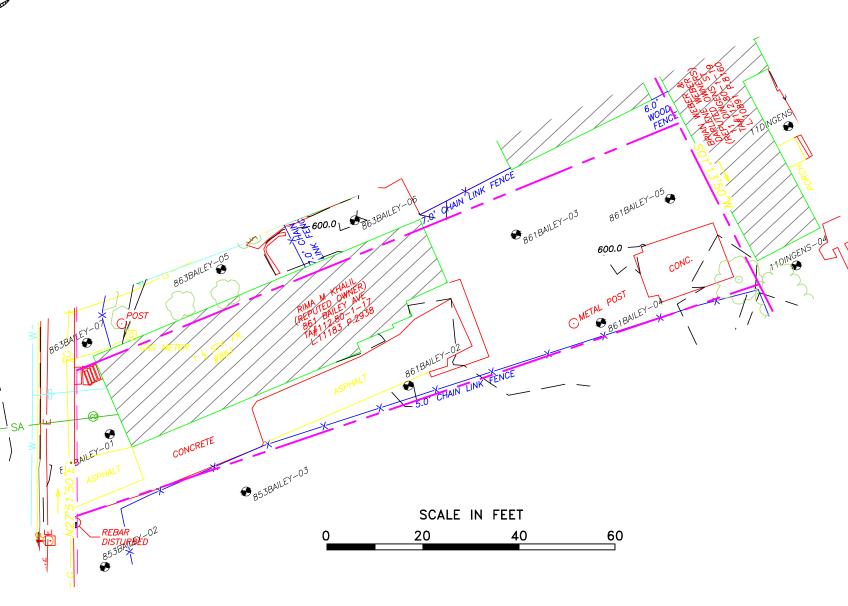
	2020 Analytical Results for 853 Bailey Ave													
Start	End		Results in milligrams per kilogram (mg/kg)											
Depth	Depth	853BAI	LEY-01	853BAI	LEY-02	853BAI	LEY-03	853BAI	LEY-04	853BAI	LEY-05	853BAI	LEY-06	
(inches)	(inches)	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	
0	3	13.5	426	16.5 J	257	12.9	298	11.8	327	12.4	230	14.0	319	
3	6	20.8	424	25.5	317	14.6	285	15.5	359	13.5	244	16.7	348	
6	9	12.7	253	15.8	144	13.8	204	15.5	276	14.5 J	207	17.4	313	
9	12	9.4	171	9.1	69.0	11.2	153	12.2	217	10.9	131	15.3	236	
12	18	8.1	87.8	7.3	24.4	7.8	49.0	8.9	82.5	5.6	48.2	11.8	150	
18	24	6.8	71.8	6.8	14.5	7.3	17.5	8.1	27.8	9.4	22.0	8.1	38.5	

	2020 Analytical Results for 853 Bailey Ave													
Start	End		Results in milligrams per kilogram (mg/kg)											
Depth	Depth	853BAI	LEY-07	853BAI	LEY-08	853BAI	LEY-09	853BAI	LEY-10	853BAILEY-11		853BAILEY-12		
(inches)	(inches)	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	
0	3	13.0	387	16.6	434	N/A	N/A	15.1	246	13.3	459	16.5	636	
3	6	16.0	244	22.9	368	34.9	534	17.7	223	14.5	544	17.7	541	
6	9	9.5	81.9	17.8	313	16.1	316	13.5	91.3	16.3	548	15.5	318	
9	12	6.3	57.8	8.0	81.0	13.3	227	8.5	53.1	16.9	494	10.3	193	
12	18	4.2	26.2	5.8	39.8 J	8.1	83.2	5.7	23.4	11.7	247	9.1	150	
18	24	9.0	28.3	9.7	22.4	10.0	22.4	5.6	15.4	8.1	59.5	8.2	32.6	

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Department of Environmental Conservation





2020 Analytical Results for 861 Bailey Ave												
Start	End		Results in milligrams per kilogram (mg/kg)									
Depth	Depth	861BAI	LEY-01	861BAI	LEY-02	861BAI	LEY-03	861BAILEY-04		861BAILEY-05		
(inches)	(inches)	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	
0	3	13.9	213	10.3	434	16.9	601	15.8	770	18.4	1040	
3	6	20.0	335	13.0	589	6.9	209	15.6	758	17.1	808	
6	9	19.6	301	12.3	446	10.5	351	16.1	910	14.5	537	
9	12	15.1	130	14.6	548	8.6	115	15.7	414	13.1	414	
12	18	9.2	51.8	12.5	255	5.4	38.5	12.1	142	8.4	64.5	
18	24	8.3	27.8	9.5	219	9.1	22.8	6.4	46.1	10.9	62.2	

SURVEY CONTROL POINT	E	UTILITY ELECTRIC MANHOLE
SURVEY BENCHMARK	(\$)	UTILITY SANITARY MANHOLE
UTILITY LIGHT POLE	$\overline{}$	UTILITY TELEPHONE MANHOLE
UTILITY POLE		UTILITY DRAINAGE MANHOLE
PEDESTRIAN LIGHT POLE	\bigotimes	UTILITY UNKNOWN MANHOLE
POST		UTILITY DRAINAGE CATCHBASIN
FLAG POLE	Q	UTILITY FIRE HYDRANT
SIGN	-0-	UTILITY WATER VALVE
CONIFEROUS SHRUB	₽	UTILITY UNKNOWN VALVE
	\bigcirc	UTILITY VENT
TREE STUMP		UTILITY PULLBOX
DECIDUOUS SHRUB		LANDSCAPE BOULDER
DECIDUOUS TREE	е	UTILITY OVERHEAD WIRES UTILITY UNDERGROUND ELECTRIC
CONIFEROUS TREE		UTILITY UNDERGROUND GAS MAIN UTILITY COMBINED SANITARY SEWER UTILITY STORM SEWER
UTILITY ELECTRIC METER	w	UTILITY UNDERGROUND WATER MAIN PROPERTY LINE

NOTES

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	2020 Analytical Results for 863 Bailey Ave														
Start	End		Results in milligrams per kilogram (mg/kg)												
Depth	Depth	863BAI	LEY-01	863BAI	LEY-02	863BAI	LEY-03	863BAI	LEY-04	863BAI	LEY-05	863BAI	LEY-06	863BAI	LEY-07
(inches)	(inches)	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead	Arsenic	Lead
0	3	6.5	695	7.7	180	11.1	688	17.0	295	13.2	345	17.4	861	11.9	279
3	6	8.3	1130	9.3	34.2	11.5	647	13.9	150	15.1	361	13.2	719	15.8	310
6	9	11.0	914	9.5	39.4	11.7	728	9.0	44.7	15.6	344	13.2	618	18.1 J	308
9	12	10.7	1030	9.6	34.8	9.7	178	9.0	25.2	17.7	362	15.2	669	9.3	117
12	18	6.7	520	8.2	19.5	9.4	201	9.5	32.5	9.5	88.7	10.8	346	9.0	29.6
18	24	9.0	63.6	8.5	21.0	8.6	64.0	9.7	28.4	5.7	16.5	9.3	188	8.8	17.3

B Soil Boring Logs

m	ecology 2 Gotal Environment	ind	envir	oamen	t en	ginee	ring,	p.c.
144	Geologi Erizantustudad	ai Sparti	88×14					
B ~ B								

BORING No.: 853 Ruley -ol

Page L of /

Property ID: 85384 837 Bailey Offsite, Buffalo NY DATE SITE NAME / LOCATION E & E GEOLOGIST E & E PROJECT ID 1705007.0008.01 SUBCONTRACTOR LaBella ELEVATION Datum DRILLER LOCATION COORDINATES WATER LEVEL DATA TYPE OF DRILL RIG Geoprobe WATER LEVEL DATE TIME REF, PT. NUMBER OF CORES COLLECTED_ Macro-Core SOIL SAMPLING METHOD 3,8 FINISHED TOTAL DEPTH SAMPLE INFORMATION Core/SS PID/FID Lab/Field Sample ID SOIL DESCRIPTION / COMMENTS Depth Blow Recovery (ppm) & Analysis 253 Bailey -01 -Z06-09 -Z09-12 -Z12-18 -Z18-24 -Z24-30 -Z30-36 -Z36-42 -Z42-48 Comments Method of Completion / Backfill:

J			annaries						Property	10: 853 Bailay	-07 -	OMO MORES
DATE		6/2	5/2) 0},0)			SITE NAM	E / LOCATION	837 Bailey Off	site, Buffalo NY	
E&EG	SEOLOGIST	،کے	M	rceli				E & E PRC	JECT ID	1705007.0008	3.01	
SUBCO	NTRACTOR	LaBella		- 6	_			ELEVATIO	N		Datum	
DRILLE	R I			Pue	7 =- 			LOCATION	COORDINATES		N /	
		ı v	ATER	RLEVEL	DATA			TYPE OF I	ORILL RIG	Geoprobe		
	DATE	TIME	+	WATER	LEVEL	REF. PT	<u>. </u>		OF CORES COLLEC		<u> </u>	
			-						PLING METHOD	Macro-Core		
								FINISHED	TOTAL DEPTH	3.8		Stanisla in the
Depth	Core/SS	Blow		covery	E INFOR PID/FID	_,	/Field Sample ID		so	IL DESCRIPTION / COM	IMENTS	
. BGS)	No.	Count N/A	3,	(ft)	(ppm) N/A	0020	& Analysis	n3 M - K	Lev L		- 67 1 1	NO. CHOCKER AND
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BORING No.: 853 Bulley -03 Page 1 of	expenses
Property ID: 653 Bailey - 63	

DATE		6/2	6/20)	٥۔			SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
E&EG	SEOLOGIST		5- M	iceli		_	E & E PROJECT ID	1705007.0008.01
SUBCC	NTRACTOR	LaBella				-	ELEVATION	Datum
DRILLE	R	C.	Stor	le		-	LOCATION COORDINATES	N / E
		W	ATER LEVE	L DATA	ACCOMMENSATION STREET, AND SECURITION OF THE SEC		TYPE OF DRILL RIG	Geoprobe
aprili de la companya	DATE	TIME	WATER	R LEVEL	REF. PT.		NUMBER OF CORES COLLECTE	D
							SOIL SAMPLING METHOD	Macro-Core
							FINISHED TOTAL DEPTH	3.4
			SAMP	LE INFORM				regression de des Années de Colonia de la company de Colonia (Colonia de Colonia de Colo
Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID malysis	SOIL [DESCRIPTION / COMMENTS
		N/A	3.4	N/A	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	03-Z00-03	0-4" dak brow	in topsoil with organics
					I	-Z03-06	4-14" dark	brown silly loan
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1						-Z09-12	/	
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Method of	Completion						`	1.1
	Jonnyouon	, LGORIII.					Signature:	1 * V May 4
		orane versus statistica i estada			Carrier William Co. William Co.		oignatule.	- W/0 / - '/////

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DATE	2 CONTRACTOR OF THE STATE OF TH	6/26	1/2021	D			SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
	SEOLOGIST	- [//	J. Mrce	ali"		-	E & E PROJECT ID	1705007.0008.01
	NTRACTOR		<u></u> i	***************************************		*	ELEVATION	Datum
DRILLE		<u> </u>	Stone	ø.		-	LOCATION COORDINATES	N /
		V						
	DATE	1	VATER LEVE		T DEE DE		TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WAIER	R LEVEL	REF. PT.	-	NUMBER OF CORES COLLECT	
ŀ		 	+		1	1	SOIL SAMPLING METHOD	Macro-Core
<u> </u>						_	FINISHED TOTAL DEPTH	2° 0
Depth	Core/SS	Blow	Recovery	PID/FID		eld Sample ID	SOIL	L DESCRIPTION / COMMENTS
. BGS)	No.	Count	(ft)	(ppm)	I	Analysis		
}		N/A	3,8	N/A	8538aby	1-04 -Z00-03	0 (000- 5	rown top soil with
						-Z03-06	Organics	
						-Z06-09	7-16" - dak by	min silly lours
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			1			712_18		1
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						710.04	fill	11 11 11 11 11 11
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Method of Completion / Backfill:

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y								:857 Bailey -05				
DATE		6/26	1203	D			SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY				
E&EC	SEOLOGIST	. لے '	Mice	۱٬ `			E & E PROJECT ID	1705007.0008.01				
SUBCC	NTRACTOR	LaBella					ELEVATION	Datum				
DRILLE	iR.	<u>C.</u>	House				LOCATION COORDINATES	N /				
		W	ATER LEVE	L DATA			TYPE OF DRILL RIG	Geoprobe				
	DATE	TIME	WATER	R LEVEL	REF. PT.		NUMBER OF CORES COLLECTER	0				
							SOIL SAMPLING METHOD	Macro-Core				
							FINISHED TOTAL DEPTH	3.8'				
	SAMPLE INFORMATION			MATION								
Depth ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID nalysis	SOIL DESCRIPTION / COMMENTS					
		N/A	3.8	N/A	AND REAL PROPERTY AND REAL PRO	1-05-Z00-03	0-5" late brown	1 topsoil with organies				
					10000000	-Z03-06	I-18" Rade be	mus Silbe loum heits				
-						-Z06-09	Some 1	las 1				
						-Z09-12	13-2411 hout by	roun silv day				
1						740.40	1					
						-Z12-18	Pete 7- 12"	trace black activitient				
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Method of Completion / Backfill:

DATE SITE NAME / LOCATION 837 Bailey Offsite, Buffalo NY E & E GEOLOGIST E & E PROJECT ID 1705007.0008.01 SUBCONTRACTOR LaBella ELEVATION Datum DRILLER LOCATION COORDINATES WATER LEVEL DATA TYPE OF DRILL RIG Geoprobe WATER LEVEL DATE TIME REF. PT. NUMBER OF CORES COLLECTED SOIL SAMPLING METHOD Macro-Core 3.8 FINISHED TOTAL DEPTH SAMPLE INFORMATION Depth Core/SS Blow Recovery PID/FID Lab/Field Sample ID SOIL DESCRIPTION / COMMENTS (ft. BGS) (ppm) Count & Analysis 153 Bailey-06 -Z00-03 -Z06-09 -Z09-12 -Z12-18 -Z18-24 -Z24-30 -Z30-36 -Z36-42 -Z42-48 3-12 trace Hade and whose asky Comments Method of Completion / Backfill: Signature:

BORING No.: 853 Bully 07

Page ____ of ____

Property ID: 853 Bailey-07

DATE						_	SITE NAME / LOCATION 837 Bailey Offsite	, Buffalo NY
E&E(SEOLOGIST					-	E&EPROJECTID 1705007.0008.01	
SUBCC	NTRACTOR	LaBella				_	ELEVATION)atum
DRILLE	R			2015040000000000000000000000000000000000		_	LOCATION COORDINATES N	/ <u>E</u>
		W	ATER LEVE	L DATA			TYPE OF DRILL RIG Geoprobe	
	DATE	TIME	WATER	R LEVEL	REF. PT.		NUMBER OF CORES COLLECTED	
						,	SOIL SAMPLING METHOD Macro-Core	
200							FINISHED TOTAL DEPTH 3,7 7	
D45	Core/SS			LE INFORM				
Depth (ft. BGS)	No.	Blow Count	Recovery (ft)	PID/FID (ppm)		ld Sample ID Analysis	SOIL DESCRIPTION / COMMEN	TS
		N/A	3.7	N/A	853 Barley	, o 7 -Z00-03	0-5" dull brew Jep se	il with agone
						-Z03-06	5-12" pak bong sitty low	i with clay
		<u> </u>				-Z06-09	12-24" light brown softy day	/
1						-Z09-12		
					257	-Z12-18	4.6.4	
						·	Note 3 06 predien sixed	gravel
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Method of	Completion	/ Backfill-					11/	<i>. 1</i>
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	ology an	d envir	onment	engine	ering, p.c.	BORING No.: 853 Builey -08 Page of L						
<u> </u>			-					Property II				
DATE		6/ 34	13030 416e	-{			SITE NAME / I	LOCATION	837 Bailey	Offsite, Buf	falo NY	
E&E	GEOLOGIST		. Mile	<u>* </u>		_	E & E PROJECT ID			1705007.0008.01		
SUBC	ONTRACTOR	LaBella				_	ELEVATION			Datum		
DRILLI	ĒŔ		Store			_	LOCATION CO	DORDINATES		N /	E	
		W	ATER LEVE	L DATA			TYPE OF DRIL	L RIG	Geoprobe			
	DATE	DATE TIME WATER LEVEL REF. PT.					NUMBER OF (CORES COLLECTE		4		
							SOIL SAMPLIN	NG METHOD	Macro-Core	<u> </u>	• .	
							FINISHED TO			3.6		
	E CONTROVENION CONTRACTOR		SAMP	LE INFORM	ATION						· · · · · · · · · · · · · · · · · · ·	
Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Fiel	d Sample ID		SOIL I	DESCRIPTION / C	OMMENTS		
(N. BOO)		N/A	3,6	N/A		cy = 08 Z00-03	13-61	hun La	a ho	C=2	4.4	
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Method of Completion / Backfill:

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DATE		6/1	1/102	0			Property SITE NAME / LOCATION	10: 853 Bailey Offsite, Buffalo NY
	SEOLOGIST	40	J. P	weti		-	E & E PROJECT ID	1705007.0008.01
	NTRACTOR	LaBella				-	ELEVATION	Datum
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		10	ATER LEVE				TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	T	R LEVEL	REF. PT.		NUMBER OF CORES COLLECT	2
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							FINISHED TOTAL DEPTH	3.4
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DATE		6/2	-6/2	10	40			Property II SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
	SEOLOGIST	7	M	10	1.		-	E & E PROJECT ID	1705007.0008.01
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		V	VATER LE	EVEL	DATA	1		TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WA	TER	LEVEL	REF. PT.		NUMBER OF CORES COLLECTE	ED
								SOIL SAMPLING METHOD	Macro-Core
								FINISHED TOTAL DEPTH	3.8
NOTE THE LOCAL COLUMN TO T		AND THE STATE OF PERSONS ASSESSED.	SA	MPL	E INFORM	IATION			
Depth	Core/SS	Blow	Recov	ery	PID/FID	Lab/Fiel	d Sample ID	SOIL	DESCRIPTION / COMMENTS
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			$\perp \perp$				-Z06-09	7-24" 154	Drown SIHY MAN
1							-Z09-12		
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								Signature:	Markey Mill

<u> </u>					ering, p.c.		Property	10:853 Bailey Page 1 of .
DATE		6/2	5/202	90			SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
E&EG	EOLOGIST	الر	. Mitt	W.		-	E & E PROJECT ID	1705007.0008.01
SUBCO	NTRACTOR	LaBella			***************************************		ELEVATION	Datum
DRILLEI	R	C	Stone			-	LOCATION COORDINATES	N /
		W	ATER LEVE	DATA			TYPE OF DRILL RIG	Geoprobe
ļ	DATE	TIME	1	R LEVEL	REF. PT.		NUMBER OF CORES COLLECT	
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Depth	Core/SS	Blow	Recovery	PID/FID		d Sample ID	soil	L DESCRIPTION / COMMENTS
t. BGS)	No.	Count	(ft)	(ppm)	& A	Analysis		
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y								Property ID	853 Rail	ey-12	
DATE E&E C	SEOLOGIST	6/14	1/302 hel	D Bli			SITE NAME / LOC		837 Baile 1705007.	্য y Offsite, Buffalo N 0008.01	Y
	NTRACTOR			~		- -	ELEVATION			Datum:	
DRILLE	:R	<u> </u>	Stone	2		_	LOCATION COOF	RDINATES		N /	E
		T W	ATER LEVE	L DATA	T		TYPE OF DRILL I	RIG	Geoprobe	·	
	DATE	TIME	WATE	R LEVEL	REF. PT.		NUMBER OF CO			<u> </u>	
							SOIL SAMPLING FINISHED TOTAL		Macro-Co	re Q	······································
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Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	·	Lab/Fie	ld Sample ID		SOIL I	DESCRIPTION	/ COMMENTS	
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DATE			125/20			•	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
	EOLOGIST	· · · · · · · · · · · · · · · · · · ·	Jacob	5		-	E & E PROJECT ID	1705007.0008.01
SUBCO	NTRACTOR		1			-	ELEVATION	Datum
RILLE	R	<u> (,)</u>	tone				LOCATION COORDINATES	N /
		w	ATER LEVE	L DATA	T		TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECT	ED /
							SOIL SAMPLING METHOD	Macro-Core
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U T		:	1	***************************************		-	Property	
DATE	(0/25	120				SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
E&EG	EOLOGIST	A	Jaco	DS		-	E & E PROJECT ID	1705007.0008.01
SUBCO	NTRACTOR	LaBella				_	ELEVATION	Datum
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DATE		6/24	1407	0		_	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY	ALMONO DE
E&E(GEOLOGIST	1	1- MICE	eli		· =	E & E PROJECT ID	1705007.0008.01	
SUBCC	ONTRACTOR	₹ LaBella				· _	ELEVATION	Datum	
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			VATER LEVE	EL DATA			TYPE OF DRILL RIG	Geoprobe	SARSEKSANDA
	DATE	TIME	WATE	R LEVEL	REF. PT.		NUMBER OF CORES COLLE	ECTED	
							SOIL SAMPLING METHOD	Macro-Core	
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Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	/ PID/FID (ppm)		ld Sample ID Analysis	s	SOIL DESCRIPTION / COMMENTS	
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	EOLOGIST			Ville	oit		_	E & E PRO			L 70 5007.0		
	NTRACTOR	Labella	(L	a. 10			_	ELEVATIO		-			
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	DATE	TIME	WA	TER	LEVEL	REF. PT.	4	NUMBER O	OF CORES C	OLLECTED_		ď.	
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epth BGS)	Core/SS No.	Blow Count	Recove (ft)	ery	PID/FID (ppm)		eid Sample ID Analysis			SOIL DES	CRIPTION / C	COMMENTS	
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Ů.							Property	ID:				
DATE		6/3	25/20				SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY				
E&EC	GEOLOGIST	A.	Jacok	کد		_	E & E PROJECT ID	1705007.0008.01				
SUBCC	ONTRACTOR	LaBella				<u>-</u>	ELEVATION	Datum				
DRILLE	ER .	<u> </u>	Ston	۷		_	LOCATION COORDINATES	N / E				
		W	/ATER LEVE	L DATA			TYPE OF DRILL RIG	Geoprobe				
	DATE	TIME	WATER	R LEVEL	REF. PT.	1.	NUMBER OF CORES COLLEC	TED /				
							SOIL SAMPLING METHOD	Macro-Core				
							FINISHED TOTAL DEPTH	3.8/3.8"				
			SAMP	LE INFORM	MATION							
Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	P1D/F1D (ppm)		d Sample ID malysis	soi	IL DESCRIPTION / COMMENTS				
(16. 500)		N/A		N/A	THE REAL PROPERTY AND PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS A	L <i>EY-0</i> \$Z00-03	0-6" Medium &	Your topsal Sandy Silt.				
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BORING No.: <u>863 Bailey - 01</u> Page 1 of _____

DATE		6/261	16000			_	SITE NAME / LOC	CATION	837 E	Bailey Offsite, B	uffalo NY
E&EG	SEOLOGIST	4	1. Micel	ί.		_	E & E PROJECT I	D	1705	007.0008.01	
SUBCC	NTRACTOR	LaBella				_	ELEVATION			Dat	um
DRILLE	R	(.	Stone			_	LOCATION COOF	RDINATES		N	E
		W	ATER LEVE	L DATA			TYPE OF DRILL F	₹IG	Geop:		
	DATE	TIME		R LEVEL	REF. PT.		NUMBER OF CO	RES COLLEG		1	
							SOIL SAMPLING	METHOD	Macre	o-Core	
						,	FINISHED TOTAL	. DEPTH	1,6	17	
			SAMP	LE INFORM	ATION						
Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID Analysis		so	DIL DESCRIP	TION / COMMENTS	3
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DATE		6,	126/26				SITE NAME / LOCATION	837 Bailey Offsite, Buff	alo NY		
E&EC	SEOLOGIST		J. Mr.	(di			E & E PROJECT ID	1705007.0008.01			
SUBCC	NTRACTOR						ELEVATION	Datum			
DRILLE	R	<u>(-</u>	Stone				LOCATION COORDINATES	N /	E		
		V	ATER LEVE	L DATA			TYPE OF DRILL RIG	Geoprobe			
	DATE	TIME	WATE	R LEVEL	REF. PT.		NUMBER OF CORES COLLECT	EĎ			
							SOIL SAMPLING METHOD	Macro-Core			
<i>'</i>							FINISHED TOTAL DEPTH	<u> </u>			
Depth	Core/SS	Blow	Recovery	PID/FID		Sample ID	SOIL	DESCRIPTION / COMMENTS	,		
(ft. BGS)	No.	Count	(ft) 3. H	(ppm)		alysis	A 57/ 3	41.0			
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Ľ		,						Property ID: 863 Bailey
DATE		6/25	120	~				SITE NAME / LOCATION 837 Bailey Offsite, Buffalo NY
E&EG	EOLOGIST	<u>1.0</u>	1102					E & E PROJECT ID 1705007.0008.01
SUBCO	NTRACTOR	LaBella						ELEVATION Datum
DRILLE	R	<u>N A</u>						LOCATION COORDINATES N / E
		WA	TER LEVE	L DATA	•			TYPE OF DRILL RIG <u>Ceoprob</u> e
	DATE	TIME	WATER	RLEVEL	REF.	PT.		NUMBER OF CORES COLLECTED \
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Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Li	A &	d Sample ID nalysis	SOIL DESCRIPTION / COMMENTS
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J			-				Property I	10:863 Bayley -09				
DATE		6/26	( ,			_	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY				
E&EG	EOLOGIST	<u> </u>	Micel			_	E & E PROJECT ID	1705007.0008.01				
SUBCO	NTRACTOR	LaBella			VIII P. M. & Market	-	ELEVATION	Datum				
DRILLE	R	<u>( ( </u>	Spore			-	LOCATION COORDINATES	N /				
		W	ATER LEV	EL DAȚA			TYPE OF DRILL RIG	Geoprobe				
[	DATE	TIME	WATE	R LEVEL	REF. PT.		NUMBER OF CORES COLLECT	ED .				
							SOIL SAMPLING METHOD	Macro-Core				
							FINISHED TOTAL DEPTH	3.3 /3.8				
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Depth	Core/SS	Blow	Recovery	PID/FID	Lab/Fiel	d Sample ID	SOIL	DESCRIPTION / COMMENTS				
t. BGS)	No.	Count N/A	3, 3	(ppm) N/A		nalysis / -0 ²¹ -Z00-03	0-5/1 2 /	1.1/				
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	NTRACTOR	- 4					ELEVATION	Datum
DRILLE	K	NA_					LOCATION COORDINATES	
			ATER LEVE		T		TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECTE	
							SOIL SAMPLING METHOD	Macro-Core hand auger
		0-3-24 <del>0-3-2</del> 00-4-200-6-3-200					FINISHED TOTAL DEPTH	
epth BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Fiel	d Sample ID nalysis	SOIL	DESCRIPTION / COMMENTS
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y								Property I	D: 863 Bailey
DATE	EOLOGIST	PF2	11.			-	SITE NAME /		837 Bailey Offsite, Buffalo NY 1705007.0008.01
	NTRACTO		1/02			•	ELEVATION	.0110	Datum
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	DATE	TIME	WATER	RLEVEL	REF. PT.			CORES COLLECTS	
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DATE		6/26	7	10)0					SITE NAME / LOCATION	837 Bailey Offsite, B	Buffalo NY
E & E @	GEOLOGIST	1	<u>.                                      </u>	Mireli	í			_	E & E PROJECT ID	1705007.0008.01	
SUBCO	ONTRACTOR	≀ <u>LaBella</u>						-	ELEVATION	Dat	tum
DRILLE	:R	<u> </u>		lone					LOCATION COORDINATES	N	
		N	VATE	R LEVEL	.L DA	τA			TYPE OF DRILL RIG	Geoprobe	
ł	DATE	TIME	1	WATER	R LEV	VEL	REF. PT.		NUMBER OF CORES COLLECTED		
ļ	<u> </u>								SOIL SAMPLING METHOD	Macro-Core	
-									FINISHED TOTAL DEPTH	3.8	
		Process of the same of the sam					MATION				
epth BGS)	Core/SS No.	Blow Count		ecovery (ft)		D/FID ppm)	& Ai	ld Sample ID Analysis		DESCRIPTION / COMMENTS	š
THE OWNER OF THE OWNER,		N/A		STATE OF THE PARTY		N/A		7-0 <b>7</b> -Z00-03	30-7" dull brewn	sitty loan	
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7							Property	ID: 11 Di naens -oi
	SEOLOGIST	しなり LaBella		viteli		-	SITE NAME / LOCATION  E & E PROJECT ID  ELEVATION	837 Bailey Offsite, Buffalo NY 1705007.0008.01  Datum
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			ATER LEVE				TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECT SOIL SAMPLING METHOD FINISHED TOTAL DEPTH	Macro-Core 3. J' / 3.6!
				E INFORM				
Depth ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID .nalysis	SOIL	L DESCRIPTION / COMMENTS
		N/A	312	N/A	II Ding	-Z03-06	tep seil 4	Ironn to dail From with organics form
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Method of Completion / Backfill:

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NTE REG	EOLOGIST	6/3	4/20 Mic	eli eli			SITE NAME / LOCATION  E & E PROJECT ID	837 Bailey Offsite, Buffalo NY 1705007.0008.01	
	NTRACTOR	LaBella	- 1 100	<i></i>		•	ELEVATION		
RILLE		/.	Ston	0		•	LOCATION COORDINATES	N /	
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	DATE	TIME	ATER LEVE	R LEVEL	REF. PT.		TYPE OF DRILL RIG  NUMBER OF CORES COLLECT	7/2	
	DAIL	LIME	WATE	/ CEVEL	REF. FT.		SOIL SAMPLING METHOD	Macro-Core	
							FINISHED TOTAL DEPTH	14/1.0	
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th	Core/SS	Blow	Recovery	PID/FID	Lab/Field	d Sample ID	son	L DESCRIPTION / COMMENTS	
SS)	No.	Count N/A	(ft) 1. 0	(ppm) N/A	TTA	nalysis - Z00-03	0-2"	to dek brown top soo	7
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TE		Old.	Mical	-			SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
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ŀ			/ATER LEVE		T		TYPE OF DRILL RIG	Geoprobe
ŀ	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECT	
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			CAMDI	LE INFORM	AATION		FINISHED TOTAL DEPTH	
th	Core/SS	Blow	Recovery	PID/FID	Lab/Field	I Sample ID	SOI	L DESCRIPTION / COMMENTS
SS)	No.	Count N/A	(ft) 3, 7	(ppm) N/A	erances and the contract of th	nalysis -Z00-03	8-7/ UWI	
		- IN/A	3.1	IN/A	il Diogens-0	-Z03-06	O DIACK I da	vk brown top soil with tra
			and the second		<del>                                     </del>	-Z05-00 -Z06-09	7-141 2 11 1 1	roun silty clay becomes
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DATE		0/19	12000	<u></u>		-	SITE NAME / LOCATION	837 Bailey Offsite, Bu	ıffalo NY
	SEOLOGIST		- MILE	4	<del></del>	-	E & E PROJECT ID	1705007.0008.01	
	NTRACTOR	f'				-	ELEVATION		m
DRILLE	:R	<u></u>	Stone			- -	LOCATION COORDINATES	N /	E.
		T W	VATER LEVE	L DATA	Т	-	TYPE OF DRILL RIG	Geoprobe	
	DATE	TIME	WATE	R LEVEL	REF. PT.		NUMBER OF CORES COLLECTI	ED	
		ļ					SOIL SAMPLING METHOD	Macro-Core	14.14.
							FINISHED TOTAL DEPTH	3.5	
				LE INFORM					EFFOREST CONTROL OF THE STATE O
Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID Malysis	SOIL	DESCRIPTION / COMMENTS	
		N/A	3.5	N/A	11 Dingens-		A-R" duck b	min top soil	
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			1		1	-Z09-12		21/20 (100)	Dievic Darry
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			TO DESCRIPTION OF THE PROPERTY		-	-Z24-30			
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y		4						Prop	erty ID: II)	sens-05	Page of
DATE		6/24	12020	)		-	SITE NAME / L				e, Buffalo NY
E&EG	GEOLOGIST	_61	3. P	<u>içeli</u>		_	E & E PROJEC	CT ID	1705	007.0008.01	1
SUBCC	NTRACTOF	LaBella				_	ELEVATION				Datum
DRILLE	R	$-\ell$	· Starc				LOCATION CO	ORDINATE	s	N	/
		W	ATER LEVE	DATA			TYPE OF DRIL	L RIG	Geopi	obe	
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						4	SOIL SAMPLIN	IG METHOE		-Core	
haran karajan kulong kang							FINISHED TO	TAL DEPTH		3.8	
David	Core/SS	I Di		E INFORM		14 O 15 ID					NTO
Depth t. BGS)	No.	Biow Count	Recovery (ft)	(ppm)	8.4	ld Sample ID Analysis		-00-4 <b>0</b> 2-00-70-00-20	SOIL DESCRIPT	ION / COMME	NIS
		N/A	3.8	N/A	Dingis	-05 -Z00-03	0-3"	brown	n topso	el with	organics.
			1			-Z03-06	70.	1/547	3004	silty	clay
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DATE		6/24	13031	<i>'</i>		-	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
	SEOLOGIST	<u>. لے                                    </u>	Mile	(			E & E PROJECT ID	1705007.0008.01
	NTRACTOR	ē					ELEVATION	Datum
ORILLE	R I		Stone				LOCATION COORDINATES	N /
		w	ATER LEVE	L DATA	T		TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLEC	ETED
							SOIL SAMPLING METHOD	Macro-Core 3-,4
ECHICATION (							FINISHED TOTAL DEPTH	2.17
epth BGS)	Core/SS No.	Blow	Recovery	PID/FID (ppm)	Lab/Fiel	d Sample ID	so	IL DESCRIPTION / COMMENTS
BG3)	140.	Count N/A	3, 4	N/A	Il Dingens	nalysis A -Z00-03	A 10 1/4	brown Silty loam
					H Which	<i>-∪0</i> -Z03-0€	0 0 1130	games
						-Z06-09	1 10/1 / 1	oun silty laam
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						-Z18-24	10-13"	black and whole asky fit
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BORING No.: 150 Agens -Ol Page 1 of 1

Property ID: 15 Dingers -01 24/2020 837 Bailey Offsite, Buffalo NY DATE SITE NAME / LOCATION E & E GEOLOGIST 1705007.0008.01 E & E PROJECT ID SUBCONTRACTOR LaBella ELEVATION Datum DRILLER LOCATION COORDINATES WATER LEVEL DATA TYPE OF DRILL RIG Geoprobe DATE WATER LEVEL REF. PT. NUMBER OF CORES COLLECTED SOIL SAMPLING METHOD Macro-Core FINISHED TOTAL DEPTH SAMPLE INFORMATION Depth Core/SS Blow PID/FID Lab/Field Sample ID SOIL DESCRIPTION / COMMENTS Recovery (ppm) (ft. BGS) No. & Analysis 5 Dingos of -200-03 medium brown -Z03-06 15 Dingens of -Z06-09 -Z09-12 15 Dingers-ol -Z12-18 -Z18-24 -Z24-30 -Z30-36 -Z36-42 -Z42-48 Comments Method of Completion / Backfill: Signature:

DATE    SITE NAME / LOCATION   B37 Bailey Offsite, Buffalo NY		o: <u>ISDingens-O</u> P Page <u>l</u> D: <u>ISDingens-O</u> P	BORING No		ering, p.c.			sirs to	Ermentariaentii Sren	
DRILLER  WATER LEVEL DATA  DATE  TIME  WATER LEVEL  DATE  TIME  WATER LEVEL  REF. PT.  SOIL SAMPLING METHOD  FINISHED TOTAL DEPTH  SOIL DESCRIPTION / COMMENTS  A Analysis  N/A  3, 8  N/A  SOIL DESCRIPTION / COMMENTS  203-06  MA Truce Ted Drive fill Maderia  -206-09  N/A  -209-12  Truce  Date  Truce  Truc		837 Bailey Offsite, Buffalo NY 1705007.0008.01	SITE NAME / LOCATION E & E PROJECT ID			<u>D</u>		5/24		E&EG
DATE TIME WATER LEVEL REF. PT.  NUMBER OF CORES COLLECTED  SOIL SAMPLE INFORMATION  Depth Core/SS Blow Recovery PID/FID Lab/Field Sample ID & Analysis  NA 3, 8 N/A 150 name - 200-03 for the point of t		DatumN /				ne	Stor			
Depth No. Count (t) (ppm) Lab/Field Sample ID 80IL DESCRIPTION / COMMENTS  No. Count (t) (ppm) Lab/Field Sample ID 8 Analysis  N/A 3, 8 N/A ISTRICT TO - 200-03   1		Macro-Core	NUMBER OF CORES COLLECTS SOIL SAMPLING METHOD		REF. PT.				DATE	·
N/A 3. 8 NA ISDingers - 02 - 200-03 p - 1		DESCRIPTION / COMMENTS	SOIL		Lab/Fiel	PID/FID		Blow		
-Z42-48	i UHh	ad bruk fill materal	Ord trine  )-10" Irsh  true blay  10-14 brown silk  clay @ 18"	-Z03-06 -Z06-09 -Z09-12 -Z12-18 -Z18-24 -Z24-30	CONTRACTOR SERVICE CONTRACTOR SERVICES	Marian Cara Salar Asia Salar	THE RESERVE OF THE PARTY OF THE	SALES CHIMAN STREET	NU.	1
							Total Commence			
	1752510000000000000000000000000000000000			-2-12-10		<b>+</b>	<b>y</b>	<b>*</b>		
	**************************************								7	

Comments 2-10" black asky fill in trace ammounts.

Method of Completion / Backfill:

A con	ology an stramanansis	d envir	onment	engine	ering, p.c.		BORII	NG No.: <u>5</u>	Dingens-03	Page L of L
DATE		5/	<del>)4/)</del>	oho			SITE NAME / LOCATION	83	Dingers - 03 7 Bailey Offsite, B	uffalo NY
	GEOLOGIST ONTRACTOR ER		2 1	re re			E & E PROJECT ID  ELEVATION  LOCATION COORDINATE		05007.0008.01 	umE
	DATE	TIME	ATER LEVE		REF. PT.		TYPE OF DRILL RIG NUMBER OF CORES COL	LLECTED	oprobe	
			SAMP	LE INFORM	ATION		SOIL SAMPLING METHOD FINISHED TOTAL DEPTH		acro-Core 3,8	
Depth (ft. BGS)	Core/SS No.	Blow Count N/A	Recovery (ft)	·	Lab/Field & An	Sample ID	27/	SOIL DESCI	RIPTION / COMMENTS	
1		Des	3,0		DUMAEAS	-Z00-03 -Z03-06 -Z06-09 -Z09-12 -Z12-18	3-5" reddich 5-9" brown	brown Sordy ashy Brown Serd.	soil wift clay loan wif fill silty cla	organies h some ay with
2					4	-Z18-24	Marka AMAN ARIAN SINTA BANGALAH MININA SINTA BARAKA L			
						-Z24-30 -Z30-36				
3						-Z36-42				
4		*	<b>V</b>	*		-Z42-48				
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5-9" some black asky fill

Method of Completion / Backfill:

Comments

d management		paradominimo		<del>Samuella de la como</del>			Property	ID: 15 Dingens-04
DATE		6/24		9		<b></b>	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
	SEOLOGIST		Micel	1		-	E & E PROJECT ID	1705007.0008.01
	NTRACTOR	LaBella	11 .			-	ELEVATION	Datum
DRILLE	R I		Hone	CTERTILISMONE CONTROL			LOCATION COORDINATES	N /
}	DATE	T	VATER LEVE		T	1	TYPE OF DRILL RIG	Geoprobe
ŀ	DATE	TIME	VVAIE	R LEVEL	REF. PT.	1	NUMBER OF CORES COLLECT SOIL SAMPLING METHOD	Macro-Core
		-				-	FINISHED TOTAL DEPTH	3, 8
			SAMP	PLE INFORM	WATION			
Depth ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		eld Sample ID Analysis	SOI	IL DESCRIPTION / COMMENTS
		N/A	3,8'	N/A	15Dimens		D-3" brown to	op soil with organics
						-Z03-06	3-4" brown s	it day
-						-Z06-09	1 100x Dion	in silty loan with some
1				111		-Z09-12	Clase On	some bluck asky fill
ļ			1		-	-Z12-18	9-24" medun )	brown silty clay becomes
					-		medium brow	in day @ 10"
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		-				720.26		
2						-Z30-36		
]-						-Z36-42		
_		'						
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BORING No.: 15 Dingers -05	Page _.	<u> </u>	of_	- Gillering	-
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Property ID: ___

DATE		6/24	12000			_	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
E&EG	EOLOGIST	1	. Mircel	· !		_	E & E PROJECT ID	1705007.0008.01
SUBCO	NTRACTOR	LaBella				-	ELEVATION	Datum
DRILLE	R	<u> </u>	Stone			_	LOCATION COORDINATES	N / E
		W,	ATER LEVE	L DATA	-		TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECTE	ED
							SOIL SAMPLING METHOD	Macro-Core
							FINISHED TOTAL DEPTH	1/2' and 1.7'/2'
			<del>,</del>	LE INFORM	·			
Depth (ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID malysis	Soil soil	DESCRIPTION / COMMENTS
		N/A		N/A	15 Digger	<b>C-05</b> -Z00-03	to lak by	our sitty loan 41th
					2).	-Z03-06	0-3 organies	
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2					· V		1 Tavel Size	ed brick and slag presterior.
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DATE		614	4/208			_	SITE NAME	LOCATION		iley Offsite,		<u>1Y</u>
	GEOLOGIST		s. Mize	311			E & E PROJE		170500	7.0008.01		
	NTRACTOR	<u>∤LaBella</u>				_	ELEVATION			D:	Datum	
DRILLEF	A -		Stone				LOCATION C	COORDINATES			/ ************************************	
}	<del></del>	W	WATER LEVEL	.L DATA	Т	4	TYPE OF DR	RILL RIG	Geoprob	ое		
ŀ	DATE	TIME	WATEF	R LEVEL	RÉF. PT.	-		F CORES COLLE	· ·			
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DATE		lo/	25/20	20		_	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY			
E&EG	EOLOGIST _		A. Jaco	2905			E & E PROJECT ID	1705007.0008.01			
SUBCO	NTRACTOR	LaBella					ELEVATION	Datum			
DRILLE	R	<u>C.s</u>	Stone	i and the state of			LOCATION COORDINATES	N /	E		
		W	ATER LEVEL	L DATA			TYPE OF DRILL RIG	Geoprobe	dition.		
	DATE	TIME	WATER	R LEVEL	REF. PT.		NUMBER OF CORES COLLECTE	ED	_		
							SOIL SAMPLING METHOD	Macro-Core	_		
							FINISHED TOTAL DEPTH	3.873.8			
			SAMPI	LE INFORM	MATION	1					
Depth ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	P!D/FID (ppm)	Lab/Field	ld Sample ID Analysis	SOIL	DESCRIPTION / COMMENTS			
-		N/A		N/A		ENS-01-Z00-03	0-5" Medium 6	prown Sandy Silf topsoil	,99999		
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	EOLOGIST		<del></del>	005		-	E & E PROJECT ID	1705007.0008.01		
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RILLE			Store				LOCATION COORDINATES	N /		
	IX									
			VATER LEVE		T		TYPE OF DRILL RIG	Geoprobe  Z		
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECT			
							SOIL SAMPLING METHOD FINISHED TOTAL DEPTH	Macro-Core		
			CAMP	LE INFOR	MATION		FINISHED TOTAL DEPTH	1.9/2 and 2/2		
oth GS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Field Sample ID & Analysis		SOIL DESCRIPTION / COMMENTS			
		N/A		N/A	17DINGE	NS-02Z00-03		brown Sandy SIH		
						-Z03-06	1003011	with organics		
						-Z06-09	405.8-10A65	Rounded and angula.		
						-Z09-12	Me = 18 W	divin gravel.		
					-	-Z12-18	65-10.4 Dark	proude sandy 5.1+		
							With	coal/Ash angular		
					-	-Z18-24	till ble	Con an County of the		
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						-Z30-36	15.6- Medium 6	nown Sandy 15.11		
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y					ering, p.c.		Property I	o.: <u>  7DINGEN</u> S-03 <del>-</del> age of _ ID:
DATE	TOTAL COMMISSION OF STREET	le	175	Izoz	~~			
	FOI 0010T		1534	200	· ·	-	SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY 1705007,0008.01
	EOLOGIST NTRACTOR		<i>H</i> . <i>J</i>	uwi	<u> </u>	-	E & E PROJECT ID	
		Labella	<1.0			-	ELEVATION	Datum
DRILLE	K		Stor	<u>u</u>			LOCATION COORDINATES	N /
		W,	ATER LEVE:	L DATA			TYPE OF DRILL RIG	Geoprobe
	DATE	TIME	WATER	RLEVEL	REF. PT.		NUMBER OF CORES COLLECT	
							SOIL SAMPLING METHOD	Macro-Core
							FINISHED TOTAL DEPTH	1.1'/2.0 and 2/2'
Depth	Core/SS No.	Blow	Recovery	E INFORMATION           PID/FID         Lab/Field Sample ID           (ppm)         & Analysis			SOIL	DESCRIPTION / COMMENTS
. BGS)	NO.	Count N/A	(ft)	(ppiii) N/A		naiysis TVS 03Z00-03	D-B Medium	brown sand with some
					17 GLINGI	-Z03-06		
						-Z06-09	9111 70,00	
						-Z00-09 -Z09-12	O Trie Lair	brown sand with
1				<del>-  </del>	n dawner	· · · · · · · · · · · · · · · · · · ·	1712-711 M	a 1
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mmei	nts Dro	ve to	Z'C	and o	pot 1.1	recovery.	Began archiv	ne care at 2' and drow to 4'.
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ATE		6/2	5/20				SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY			
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UBCO	NTRACTOR	LaBella				_	ELEVATION	Datum			
RILLE	R	<u> </u>	Stori	الس		_	LOCATION COORDINATES	N /			
		W	ATER LEVE	L DATA			TYPE OF DRILL RIG	Geoprobe			
	DATE	TIME	WATER	RLEVEL	REF, PT.		NUMBER OF CORES COLLECT	ED			
							SOIL SAMPLING METHOD	Macro-Core,			
							FINISHED TOTAL DEPTH	3.4'/3.8			
				LE INFORM	<del></del>						
pth (GS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)		d Sample ID malysis	SOIL	DESCRIPTION / COMMENTS			
		N/A		N/A	THE RESERVE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	WS-06-Z00-03	0-11' Medium =	to dark brown topson			
						-Z03-06	with orga	nizs sandy			
						-Z06-09	11-17" Medirph	to dark brown Same			
						-Z09-12	Silt	yellowish brown sitt			
						-Z12-18	17-24" Light				
					******		with so	Ine Sand			
						-Z18-24					
						-Z24-30					
						· · · · · · · · · · · · · · · · · · ·					
-						-Z30 <b>-</b> 36					
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<u> </u>				,			Property	10: 17 pmgens - 05
DATE		6/26	/ Jose	)			SITE NAME / LOCATION	837 Bailey Offsite, Buffalo NY
E&E@	EOLOGIST	رُ ع	- Micc	eli.		-	E & E PROJECT ID	1705007.0008.01
SUBCC	NTRACTOR	LaBella				-	ELEVATION	Datum
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		· //	/ATER LEVE	1 ΒΔΤΔ			TYPE OF DRILL RIG	Geoprobe
	DATE	TIME		R LEVEL	REF. PT.		NUMBER OF CORES COLLECT	à
	D/ // L	711412	1	\	100.11.		SOIL SAMPLING METHOD	Macro-Core
							FINISHED TOTAL DEPTH	3.3/3.8
			.1				FINISHED TOTAL DEFTH	
Depth .	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Fiel	d Sample ID nalysis	. SOIL	L DESCRIPTION / COMMENTS
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Page 1 of 1

Property ID: 19 Dingens- el

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E&EG	SEOLOGIST		1- M	reli		_	E & E PROJE	CT ID	1	705007.0	008.01	
SUBCC	NTRACTOR	LaBella					ELEVATION				Datum	· · · · · · · · · · · · · · · · · · ·
DRILLE	R		· 5t	2NC		_	LOCATION CO	OORDINATE	:s		N /	E
		W	ATER LEVE				TYPE OF DRI	LL RIG	G	eoprobe		
	DATE	TIME		R LEVEL	RÉF. PT.		NUMBER OF	CORES COL			l	
							SOIL SAMPLI	NG METHOE		acro-Cor	e	
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	GEOLOGIST ONTRACTOR	6/ <i>A</i>	J. Mic	eli		-	SITE NAME / LOCATION  E & E PROJECT ID	837 Bailey Offsite, Bu	
DRILLE		Labella		<u>.</u> J.	Micel.	T.Dillon	ELEVATION  LOCATION COORDINATES	Datu	m
		W	ATER LEVE	L DATA			TYPE OF DRILL RIG	Scoprobe Kay	Avuer
	DATE	TIME	WATER	R LEVEL	REF. PT.	-	NUMBER OF CORES COLLE	ECTED	A
							SOIL SAMPLING METHOD	Macro Core Mand	Huger
			SAMP	LE INFORM	IATION		FINISHED TOTAL DEPTH		
Depth	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Fiel	d Sample ID	s	OIL DESCRIPTION / COMMENTS	
		N/A	3-11	N/A	14Dmiens		0-6" dark	brewn top soil 1	vitte argani
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DATE E&EG	GEOLOGIST	6/25	illon			_	SITE NAME	/ LOCATION	837 Bailey Offsite, Buffalo NY 1705007.0008.01
	NTRACTOR					-	ELEVATION		Datum
	DATE	TIME	VATER LEVE	L DATA	REF. PT.			RILL RIG F CORES COLLEC LING METHOD	Cooprobe  CTED  Macro Core has and
			SAMP	LE INFORM	ATION			OTAL DEPTH	2 17
Depth ft. BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	& A	d Sample ID malysis			OIL DESCRIPTION / COMMENTS
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	NTRACTOR				, , , , , , , , , , , , , , , , , , , ,		ELEVATION	Datum		
RILLE	R	NA					LOCATION COORDINATES	N /		
BALL-CUENCE		\//	ATER LEVEL	DATA			TYPE OF DRILL RIG	Ceoprobe		
	DATE	TIME	WATER		REF. PT.		NUMBER OF CORES COLLECTED	•		
							SOIL SAMPLING METHOD	Macro-Gore hand core		
							FINISHED TOTAL DEPTH	211		
			SAMPL	E INFORM	IATION					
epth BGS)	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Field Sample ID		SOIL DESCRIPTION / COMMENTS			
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DATE		6/12	120				SITE NAME	/ LOCATIO	N	837 Bailey Offsite,	Buffalo NY
	EOLOGIST		llog		-		E&EPRO	JECT ID		1705007.0008.01	
	NTRACTOR						ELEVATION			D	eatum
DRILLE	R	<u>A A</u>					LOCATION	COORDINA	TES	N	
		w	ATER LEVE		T		TYPE OF D			Geoprobe	
	DATE	TIME	WATER	R LEVEL	REF, PT.		NUMBER O				
							SOIL SAMP			Macro-Core ha	nt auger
							FINISHED 1	OTAL DEP	ГН	_ C + r	
Depth	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Fiel	d Sample ID nalysis			SOIL D	DESCRIPTION / COMMEN	TS
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					1	-Z03-06	9-18	Lark	SIDANA	silt with	white motial
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								SOIL SAMPLING METHOD Macro-Core					
								FINISHED T	FOTAL DEPTH		2 ft		
	SAMPLE INFORMATION  Core/SS Blow Recovery PID/FID Lab/Field Sample							SOIL DESCRIPTION / COMMENTS					
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# C Laboratory Reports

Complete laboratory reports are provided separately.

# Data Usability Summary Reports

Data Usability Summary Report	Project: 837 Bailey Offsite – 11 DINGENS					
Date Completed: July 10, 2020	Completed by: Eridania Marte					

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Buffalo Test America, Edison	480-1716746-1	Remedial Design

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab	MS/ MSD	ID Correct ions
480-1716746-1	SO	11DINGENS-01-Z00-03	480-171676-1	06/24/2020 08:50	QU	INO/ INOD	10113
480-1716746-1	SO	11DINGENS-01-Z03-06	480-171676-2	06/24/2020 08:50			
480-1716746-1	so	11DINGENS-01-Z06-09	480-171676-3	06/24/2020 08:50			
480-1716746-1	so	11DINGENS-01-Z09-12	480-171676-4	06/24/2020 08:50			
480-1716746-1	SO	11DINGENS-01-Z12-18	480-171676-5	06/24/2020 08:50			
480-1716746-1	SO	11DINGENS-01-Z18-24	480-171676-6	06/24/2020 08:50			
480-1716746-1	SO	11DINGENS-02-Z00-03	480-171676-7	06/24/2020 11:10			
480-1716746-1	so	11DINGENS-02-Z03-06	480-171676-8	06/24/2020 11:10		MS/MSD	
480-1716746-1	so	11DINGENS-02-Z06-09	480-171676-9	06/24/2020 11:10			
480-1716746-1	so	11DINGENS-02-Z09-12	480-171676-10	06/24/2020 11:10			
480-1716746-1	so	11DINGENS-02-Z12-18	480-171676-11	06/24/2020 11:10			
480-1716746-1	so	11DINGENS-02-Z12-18-Q	480-171676-88	06/24/2020 11:10			
480-1716746-1	so	11DINGENS-02-Z18-24	480-171676-12	06/24/2020 11:10			
480-1716746-1	so	11DINGENS-03-Z00-03	480-171676-13	06/24/2020 10:40			
480-1716746-1	so	11DINGENS-03-Z03-06	480-171676-14	06/24/2020 10:40			
480-1716746-1	SO	11DINGENS-03-Z06-09	480-171676-15	06/24/2020 10:40			
480-1716746-1	so	11DINGENS-03-Z09-12	480-171676-16	06/24/2020 10:40			

Data Usability Summary Report	Project: 837 Bailey Offsite – 11 DINGENS					
Date Completed: July 10, 2020	Completed by: Eridania Marte					

Ward Ondar		Osmala ID	1 - 1 - 10	Sample	Lab	M0/M05	ID Correct
Work Order	Matrix	Sample ID	Lab ID	<b>Date</b> 06/24/2020	QC	MS/ MSD	ions
480-1716746-1	SO	11DINGENS-03-Z12-18	480-171676-17	10:40			
480-1716746-1	SO	11DINGENS-03-Z18-24	480-171676-18	06/24/2020 10:40			
480-1716746-1	SO	11DINGENS-04-Z00-03	480-171676-19	06/24/2020 10:35		MS/MSD	
480-1716746-1	SO	11DINGENS-04-Z03-06	480-171676-20	06/24/2020 10:35			
480-1716746-1	SO	11DINGENS-04-Z06-09	480-171676-21	06/24/2020 10:35		MS/MSD	
480-1716746-1	SO	11DINGENS-04-Z09-12	480-171676-22	06/24/2020 10:35			
480-1716746-1	SO	11DINGENS-04-Z09-12-Q	480-171676-86	06/24/2020 10:35			
480-1716746-1	SO	11DINGENS-04-Z12-18	480-171676-23	06/24/2020 10:35			
480-1716746-1	SO	11DINGENS-04-Z18-24	480-171676-24	06/24/2020 10:35			
480-1716746-1	so	11DINGENS-05-Z00-03	480-171676-25	06/24/2020 10:15			
480-1716746-1	SO	11DINGENS-05-Z03-06	480-171676-26	06/24/2020 10:15			
480-1716746-1	SO	11DINGENS-05-Z06-09	480-171676-27	06/24/2020 10:15			
480-1716746-1	SO	11DINGENS-05-Z09-12	480-171676-28	06/24/2020 10:15			
480-1716746-1	SO	11DINGENS-05-Z12-18	480-171676-29	06/24/2020 10:15			
480-1716746-1	SO	11DINGENS-05-Z18-24	480-171676-30	06/24/2020 10:15			
480-1716746-1	SO	11DINGENS-06-Z00-03	480-171676-31	06/24/2020 09:45			
480-1716746-1	SO	11DINGENS-06-Z03-06	480-171676-32	06/24/2020 09:45			
480-1716746-1	SO	11DINGENS-06-Z06-09	480-171676-33	06/24/2020 09:45			
480-1716746-1	SO	11DINGENS-06-Z09-12	480-171676-34	06/24/2020 09:45			
480-1716746-1	SO	11DINGENS-06-Z12-18	480-171676-35	06/24/2020 09:45			
480-1716746-1	so	11DINGENS-06-Z18-24	480-171676-36	06/24/2020 09:45			

SDG	Matrix	Test Method	Test Method Number of Samples	
480-1716746-1	so	6010C	36	N
480-1716746-1	SO	6010C	2	FD

Data Usability Summary Report	Project: 837 Bailey Offsite – 11 DINGENS				
Date Completed: July 10, 2020	Completed by: Eridania Marte				

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project. 2 FD per 36 samples. 3 MS/MSD per 36 samples. 0 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2, 2A, and 2B)
- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: 837 Bailey Offsite – 11 DINGENS				
Date Completed: July 10, 2020	Completed by: Eridania Marte				

Arsenic/Lead by Method 6010C	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	N/A
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	No. Lead was recovered outside of the acceptance criteria in the MS and MSD for samples 11DINGENS-02-Z03-06, 11DINGENS-04-Z00-03, and 11DINGENS-04-Z06-09. The parent sample results were greater than 4X the spike amount. No qualification was made.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Are serial dilution within QC criteria? (see Table 5)	No. Serial dilution for arsenic for sample 11DINGENS- 02-Z03-06 was outside of the acceptance criteria. The sample result was J qualified as estimated.
	Serial dilution for arsenic for sample 11DINGENS- 04-Z06-09 was outside of the acceptance criteria. The sample result was less than 50x the MDL. No qualification was made.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	Yes. Samples 11DINGENS-02-Z06-09 and 11DINGENS-03-Z06-09 were diluted by laboratory for lead only. No data usability concerns.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

# Summary of Potential Impacts on Data Usability

# Concerns

 Serial dilution for arsenic for sample 11DINGENS-02-Z03-06 was outside of the acceptance criteria. The sample result was J qualified as estimated.

Data Usability Summary Report	Project: 837 Bailey Offsite – 11 DINGENS					
Date Completed: July 10, 2020	Completed by: Eridania Marte					

# Table 2 - List of Positive Results for Blank Samples

None.

# Table 2A - List of Samples Qualified for Method Blank Contamination

None.

# Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

		Sample		Orig.	Spike			Low	High	Sample
Method	Sample ID	Type	Analyte	Result	Amount	MS	MSD	Limit	Limit	Qualifier
6010C	11DINGENS-02-Z03-06	MS/MSD	Lead	2520	42.1	1568	-521	75	125	None – 4X
6010C	11DINGENS-04-Z00-03	MS/MSD	Lead	3510	51.3	1249	859	75	125	None – 4X
6010C	11DINGENS-04-Z06-09	MS/MSD	Lead	1550	49.6	13	2227	75	125	None – 4X

# Table 3A - List of RPDs outside Control Limits

Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier
6010C	11DINGENS-02-Z03-06	Lead	33	20	None – 4X
6010C	1DINGENS-04-Z06-09	Lead	52	20	None – 4X

# Table 4 - List of LCS Recoveries outside Control Limits

None.

# Table 5 - List of Serial Dilution Recoveries outside Control Limits

Method	Sample ID	Analyte	Orig. Result	Serial Dilution Result	MDL	%D	Sample Qualifier
6010C	11DINGENS-02-Z03-06	Arsenic	22.4	26.04	0.44	16	J Flag
6010C	11DINGENS-04-Z06-09	Arsenic	17.3	20.3	0.45	18	None < 50x

# Table 6 -Samples that were Re-analyzed or Diluted

None.

			Sample	
Sample ID	Lab ID	Method	Type	Action
11DINGENS-02-Z06-09	480-171676-9	6010C	N	2X: Diluted by laboratory for lead
11DINGENS-03-Z06-09	480-171676-15	6010C	N	5X: Diluted by laboratory for lead

Table 7 – Summary of Field Duplicate Results

Data Usability Summary Report	Project: 837 Bailey Offsite – 11 DINGENS
Date Completed: July 10, 2020	Completed by: Eridania Marte

Method	Analyte	Unit	Matrix	PQL	11DINGENS-02-Z12-18	11DINGENS-02-Z12-18-Q	RPD	RPD Rating	Sample Qual
6010C	Arsenic	mg/kg	SO	2.6	5	5.7	13.1%	Good	None
6010C	Lead	mg/kg	SO	1.3	12.4	16.2	26.6%	Good	None

Method	Analyte	Unit	Matrix	PQL	11DINGENS-04-Z09-12	11DINGENS-04-Z09-12-Q	RPD	RPD Rating	Sample Qual
6010C	Arsenic	mg/kg	SO	2.3	8.3	9.1	9.2%	Good	None
6010C	Lead	mg/kg	SO	1.2	47.7	64.7	30.2%	Good	None

# **Acronym List and Table Key:**

COC = chain of custody

DUSR = data usability summary report

FD = Field duplicate

LCS = laboratory control sample LR = Laboratory replicate

MB = method blank MS = matrix spike

MSD = matrix spike duplicate

N = Normal sample ND = not detected

NYSDEC = New York State Department of Environmental Conservation

PDS = Post-digestion spike PQL = practical quantitation limit

QA = quality assurance

QAPP = quality assurance project plan

QC = quality control RB = Rinsate blank

RPD = relative percent difference SDG = sample delivery group

Data Usability Summary Report	Project: 837 Bailey Offsite – 15 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Buffalo	480-171676-2	Remedial Design

Work Order	Matrix	Sample ID	Sample Sample Lab ID Date		Lab QC	MS/	ID Correcti ons
480-171676-2	SO	15DINGENS-01-Z00-03	480-171676-37	06/24/2020 08:55	40		0.110
480-171676-2	SO	15DINGENS-01-Z03-06	480-171676-38	06/24/2020 08:55			
480-171676-2	SO	15DINGENS-01-Z06-09	480-171676-39	06/24/2020 08:55			
480-171676-2	SO	15DINGENS-01-Z09-12	480-171676-40	06/24/2020 08:55			
480-171676-2	SO	15DINGENS-01-Z12-18	480-171676-41	06/24/2020 08:55			
480-171676-2	SO	15DINGENS-01-Z18-24	480-171676-42	06/24/2020 08:55			
480-171676-2	SO	15DINGENS-02-Z00-03	480-171676-43	06/24/2020 09:05			
480-171676-2	SO	15DINGENS-02-Z03-06	480-171676-44	06/24/2020 09:05			
480-171676-2	SO	15DINGENS-02-Z03-06-Q	480-171676-85	06/24/2020 09:05			
480-171676-2	SO	15DINGENS-02-Z06-09	480-171676-45	06/24/2020 09:05			
480-171676-2	SO	15DINGENS-02-Z09-12	480-171676-46	06/24/2020 09:05			
480-171676-2	SO	15DINGENS-02-Z12-18	480-171676-47	06/24/2020 09:05		MS/M SD	
480-171676-2	SO	15DINGENS-02-Z18-24	480-171676-48	06/24/2020 09:05			
480-171676-2	SO	15DINGENS-03-Z00-03	480-171676-49	06/24/2020 09:10			
480-171676-2	SO	15DINGENS-03-Z03-06	480-171676-50	06/24/2020 09:10			_
480-171676-2	SO	15DINGENS-03-Z06-09	480-171676-51	06/24/2020 09:10			
480-171676-2	SO	15DINGENS-03-Z09-12	480-171676-52	06/24/2020 09:10			
480-171676-2	SO	15DINGENS-03-Z12-18	480-171676-53	06/24/2020 09:10			

Data Usability Summary Report	Project: 837 Bailey Offsite – 15 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/	ID Correcti ons
480-171676-2	SO	15DINGENS-03-Z18-24	480-171676-54	06/24/2020 09:10			
480-171676-2	SO	15DINGENS-04-Z00-03	480-171676-55	06/24/2020 09:20			
480-171676-2	SO	15DINGENS-04-Z03-06	480-171676-56	06/24/2020 09:20			
480-171676-2	so	15DINGENS-04-Z06-09	480-171676-57	06/24/2020 09:20			
480-171676-2	SO	15DINGENS-04-Z09-12	480-171676-58	06/24/2020 09:20			
480-171676-2	so	15DINGENS-04-Z12-18	480-171676-59	06/24/2020 09:20			
480-171676-2	SO	15DINGENS-04-Z18-24	480-171676-60	06/24/2020 09:20			
480-171676-2	SO	15DINGENS-05-Z00-03	480-171676-61	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-05-Z03-06	480-171676-62	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-05-Z06-09	480-171676-63	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-05-Z06-09-Q	480-171676-87	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-05-Z09-12	480-171676-64	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-05-Z12-18	480-171676-65	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-05-Z18-24	480-171676-66	06/24/2020 09:35			
480-171676-2	SO	15DINGENS-06-Z00-03	480-171676-67	06/24/2020 10:00			
480-171676-2	SO	15DINGENS-06-Z03-06	480-171676-68	06/24/2020 10:00			
480-171676-2	SO	15DINGENS-06-Z06-09	480-171676-69	06/24/2020 10:00			
480-171676-2	SO	15DINGENS-06-Z09-12	480-171676-70	06/24/2020 10:00			
480-171676-2	SO	15DINGENS-06-Z12-18	480-171676-71	06/24/2020 10:00			
480-171676-2	SO	15DINGENS-06-Z18-24	480-171676-72	06/24/2020 10:00			

SDG	Matrix	Test Method	Number of Samples	Sample Type
480-171676-2	SO	6010C	36	N
480-171676-2	SO	6010C	2	FD

Data Usability Summary Report	Project: 837 Bailey Offsite – 15 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

General Sample Information						
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.					
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.					
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project. 2 FD per 36 samples. 2 MS/MSD per 36 samples. 0 rinsate blank.					
Case narrative present and complete?	Yes.					
Any holding time violations?	No.					

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2, 2A, and 2B)
- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: 837 Bailey Offsite – 15 Dingens					
Date Completed: July 28, 2020	Completed by: Eridania Marte					

Arsenic/Lead by Method 6010C	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	N/A
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	No. Lead was recovered below the acceptance criteria in the MS and MSD for sample 15DINGENS-05-Z18-24. The parent sample result was J qualified as estimated.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Are serial dilution within QC criteria? (see Table 5)	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

# Summary of Potential Impacts on Data Usability

# Concerns

 Lead was recovered below the acceptance criteria in the MS and MSD for sample 15DINGENS-05-Z18-24. The parent sample result was J qualified as estimated.

Data Usability Summary Report	Project: 837 Bailey Offsite – 15 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

# Table 2 - List of Positive Results for Blank Samples

None.

# Table 2A - List of Samples Qualified for Method Blank Contamination

None.

# Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

		Sample		Orig.	Spike			Low	High	Sample
Method	Sample ID	Type	Analyte	Result	Amount	MS	MSD	Limit	Limit	Qualifier
6010D	15DINGENS-05-Z18-24	MS/MSD	Lead	49.3	49.8	45	41	75	125	J Flag

# Table 3A - List of RPDs outside Control Limits

None.

# Table 4 - List of LCS Recoveries outside Control Limits

None.

# Table 5 - List of Serial Dilution Recoveries outside Control Limits

None.

# Table 6 -Samples that were Re-analyzed or Diluted

None.

Table 7 - Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	15DINGENS-02-Z03-06	15DINGENS-02-Z03-06-Q	RPD	RPD Rating	Sample Qual
6010C	Arsenic	mg/kg	SO	2.3	5.6	5.1	9.3%	Good	None
6010C	Lead	mg/kg	so	1.1	20.8	16.9	20.7%	Good	None

Method	Analyte	Unit	Matrix	PQL	15DINGENS-05-Z06-09	15DINGENS-05-Z06-09-Q	RPD	RPD Rating	Sample Qual
6010C	Arsenic	mg/kg	SO	2.5	7.1	7.5	5.5%	Good	None
6010C	Lead	mg/kg	SO	1.3	97.6	107	9.2%	Good	None

Data Usability Summary Report	Project: 837 Bailey Offsite – 15 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

# **Acronym List and Table Key:**

COC = chain of custody

DUSR = data usability summary report

FD = Field duplicate

LCS = laboratory control sample LR = Laboratory replicate

MB = method blank MS = matrix spike

MSD = matrix spike duplicate

N = Normal sample ND = not detected

NYSDEC = New York State Department of Environmental Conservation

PDS = Post-digestion spike PQL = practical quantitation limit

QA = quality assurance

QAPP = quality assurance project plan

QC = quality control RB = Rinsate blank

RPD = relative percent difference SDG = sample delivery group

Data Usability Summary Report	Project: 837 Bailey Offsite – 17 Dingens
Date Completed: August 31, 2020	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Buffalo Test America, Edison	480-171842-4 460-212080-4 480-174025-1	Remedial Design

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
480-171842-4	so	17DINGENS-05-Z00-03	480-171842-10	06/25/2020 10:05			
480-171842-4	so	17DINGENS-05-Z03-06	480-171842-11	06/25/2020 10:05			
480-171842-4	so	17DINGENS-05-Z06-09	480-171842-12	06/25/2020 10:05			
480-171842-4	so	17DINGENS-05-Z09-12	480-171842-13	06/25/2020 10:05			
480-171842-4	so	17DINGENS-05-Z12-18	480-171842-14	06/25/2020 10:05			
480-171842-4	so	17DINGENS-05-Z18-24	480-171842-15	06/25/2020 10:05			
460-212080-4	so	17DINGENS-01-Z00-03	460-212080-55	06/25/2020 09:05			
460-212080-4	so	17DINGENS-01-Z03-06	460-212080-56	06/25/2020 09:05			
460-212080-4	so	17DINGENS-01-Z06-09	460-212080-57	06/25/2020 09:05			
460-212080-4	so	17DINGENS-01-Z09-12	460-212080-58	06/25/2020 09:05			
460-212080-4	so	17DINGENS-01-Z12-18	460-212080-59	06/25/2020 09:05			
460-212080-4	so	17DINGENS-01-Z18-24	460-212080-60	06/25/2020 09:05			
460-212080-4	so	17DINGENS-02-Z00-03	460-212080-61	06/25/2020 09:30			
460-212080-4	so	17DINGENS-02-Z03-06	460-212080-62	06/25/2020 09:30			
460-212080-4	SO	17DINGENS-02-Z06-09	460-212080-63	06/25/2020 09:30			

Data Usability Summary Report	Project: 837 Bailey Offsite – 17 Dingens				
Date Completed: August 31, 2020	Completed by: Eridania Marte				

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
460-212080-4	so	17DINGENS-02-Z09-12	460-212080-64	06/25/2020 09:30			
460-212080-4 SO 17DINGENS-02-Z12-18		17DINGENS-02-Z12-18	460-212080-65	06/25/2020 09:30			
460-212080-4	so	17DINGENS-02-Z18-24	460-212080-66	06/25/2020 09:30			
460-212080-4	so	17DINGENS-03-Z00-03	460-212080-67	06/25/2020 09:45			
460-212080-4	so	17DINGENS-03-Z03-06	460-212080-68	06/25/2020 09:45			
460-212080-4	so	17DINGENS-03-Z06-09	460-212080-69	06/25/2020 09:45			
460-212080-4	so	17DINGENS-03-Z09-12	460-212080-70	06/25/2020 09:45			
460-212080-4	so	17DINGENS-03-Z12-18	460-212080-71	06/25/2020 09:45			
460-212080-4	so	17DINGENS-03-Z18-24	460-212080-72	06/25/2020 09:45			
460-212080-4 SO 17		17DINGENS-04-Z00-03	460-212080-73	06/25/2020 10:00			
460-212080-4	so	17DINGENS-04-Z03-06	460-212080-74	06/25/2020 10:00			
460-212080-4	so	17DINGENS-04-Z06-09	460-212080-75	06/25/2020 10:00			
460-212080-4	60-212080-4 SO 17DINGENS-04-Z09-12		460-212080-76	06/25/2020 10:00			
460-212080-4	so	17DINGENS-04-Z12-18	460-212080-77	06/25/2020 10:00		LR/ MS	
460-212080-4	so	17DINGENS-04-Z18-24	460-212080-78	06/25/2020 10:00			
460-212080-4 SO		17DINGENS-04-Z18- 24-Q	460-212080-81	06/25/2020 10:00			
460-212080-4	WH	RB-20200625	460-212080-83	06/25/2020 17:00			
480-174025-1	SO	17DINGENS-03-Z24-30	480-174025-9	08/19/2020 15:00			
480-174025-1	SO	17DINGENS-03-Z30-36	480-174025-10	08/19/2020 15:00			
480-174025-1	SO	17DINGENS-03-Z36-42	480-174025-11	08/19/2020 15:00			
480-174025-1	SO	17DINGENS-03-Z42-48	480-174025-12	08/19/2020 15:00			
480-174025-1	so	17DINGENS-06-Z12-18	480-174025-4	08/19/2020 11:00			
480-174025-1			480-174025-1	08/19/2020 11:00		MS/ MSD	17DINGENS -06-Z03-06
480-174025-1	SO	17DINGENS-06-Z6-9	480-174025-2	08/19/2020 11:00			17DINGENS -06-Z06-09
480-174025-1	SO	17DINGENS-06-Z9-12	480-174025-3	08/19/2020 11:00			

Data Usability Summary Report	Project: 837 Bailey Offsite – 17 Dingens
Date Completed: August 31, 2020	Completed by: Eridania Marte

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
480-174025-1	SO			08/19/2020			17DINGENS
		17DINGENS-07-Z0-3	480-174025-5	11:30			-07-Z00-03
480-174025-1	SO			08/19/2020			
		17DINGENS-07-Z12-18	480-174025-8	11:30			
480-174025-1	SO			08/19/2020			17DINGENS
		17DINGENS-07-Z3-6	480-174025-6	11:30			-07-Z03-06
480-174025-1	SO			08/19/2020			17DINGENS
		17DINGENS-07-Z6-12	480-174025-7	11:30			-07-Z06-09
480-174025-1	SO			08/19/2020			17DINGENS
		17DINGENS-07-Z9-12	480-174025-13	11:30			-07-Z09-12

SDG	Matrix	Test Method	Number of Samples	Sample Type
480-171842-4	SO	6010C	6	N
460-212080-4	SO	6010D	24	N
460-212080-4	SO	6010D	1	FD
460-212080-4	SO	6010D	1	RB
480-174025-1	SO	6010C	13	N

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	No. Sample IDs associated with SDG 480-174025-1 were revised to follow previous sampling schematic.  Sample 17DINGENS-07-Z09-12 was received however was not listed on the COC, the sample was logged from the container label.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project.  1 FD per 43 samples.  2 MS/MSD per 43 samples.  1 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2, 2A, and 2B)
- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Data Usability Summary Report	Project: 837 Bailey Offsite – 17 Dingens
Date Completed: August 31, 2020	Completed by: Eridania Marte

Arsenic/Lead by Method 6010C	rsenic/Lead by Method 6010C						
Description	Notes and Qualifiers						
Are any compounds present in method and field blanks as noted on Table 2?	No.						
For samples, if results are < 5 times the blank then "U" flag data.	N/A						
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.						
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	No. Lead was recovered above the acceptance criteria in the MS for 17DINGENS-04-Z12-18. The parent sample result was 4X greater than spike amount. No qualification was made.  Lead was recovered above the acceptance criteria						
	in the MS and MSD for sample 17DINGENS-06- Z03-06. The parent sample result was greater than 4X the spike amount. No qualification was made.						
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.						
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.						
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.						
Are serial dilution within QC criteria? (see Table 5)	Yes.						
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.						
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.						
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.						
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.						
Were samples re-analyzed or diluted? (see Table 6)	Samples associated with SDG 460-212080-4 were diluted at 2X dilution by laboratory.						
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes. Laboratory duplicate pair for 17DINGENS-04-Z12- 18 exhibited poor precision. The sample result was J qualified as estimated.						

# Summary of Potential Impacts on Data Usability

# Concerns

 Laboratory duplicate pair for 17DINGENS-04-Z12-18 exhibited poor precision. The sample result was J qualified as estimated.

Data Usability Summary Report	Project: 837 Bailey Offsite – 17 Dingens				
Date Completed: August 31, 2020	Completed by: Eridania Marte				

# Table 2 - List of Positive Results for Blank Samples

None.

# Table 2A - List of Samples Qualified for Method Blank Contamination

None.

# Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	MS	MSD	Low Limit	High Limit	Sample Qualifier
6010D	17DINGENS-04-Z12-18	MS	Lead	393	62.9	464		72	125	None – 4X
6010C	17DINGENS-06-Z03-06	MS/MSD	Lead	972	49.1	589	607	75	125	None – 4X

# Table 3A - List of RPDs outside Control Limits

	Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier
Γ	6010D	17DINGENS-04-Z12-18	Lead	46	20	J Flag

# Table 4 - List of LCS Recoveries outside Control Limits

None.

# Table 5 - List of Serial Dilution Recoveries outside Control Limits

None.

# Table 6 -Samples that were Re-analyzed or Diluted

**Table 7 – Summary of Field Duplicate Results** 

Method	Analyte	Unit	Matrix	PQL	17DINGENS-04-Z18-24	17DINGENS-04-Z18-24-Q	RPD	RPD Rating	Sample Qual
6010D	Arsenic	mg/kg	SO	3.5	8.7	7.4	16.1%	Good	None
6010D	Lead	mg/kg	SO	2.3	63.3	83.7	27.8%	Good	None

# **Acronym List and Table Key**:

COC = chain of custody

Data Usability Summary Report	Project: 837 Bailey Offsite – 17 Dingens
Date Completed: August 31, 2020	Completed by: Eridania Marte

# Acronym List and Table Key:

DUSR = data usability summary report

FD = Field duplicate

LCS = laboratory control sample

LR = Laboratory replicate

MB = method blank MS = matrix spike

MSD = matrix spike duplicate

N = Normal sample ND = not detected

NYSDEC = New York State Department of Environmental Conservation

PDS = Post-digestion spike PQL = practical quantitation limit

QA = quality assurance

QAPP = quality assurance project plan

QC = quality control RB = Rinsate blank

RPD = relative percent difference SDG = sample delivery group

Data Usability Summary Report	Project: 837 Bailey Offsite – 19 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Buffalo	480-171842-2	Remedial Design

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC		ID Correcti ons
480-171842-2	so	19DINGENS-01-Z00-03	480-171842-16	06/25/2020 08:50			
480-171842-2	so	19DINGENS-01-Z03-06	480-171842-17	06/25/2020 08:50			
480-171842-2	so	19DINGENS-01-Z06-09	480-171842-18	06/25/2020 08:50			
480-171842-2	so	19DINGENS-01-Z09-12	480-171842-19	06/25/2020 08:50		MS/ MSD	
480-171842-2	so	19DINGENS-01-Z12-18	480-171842-20	06/25/2020 08:50			
480-171842-2	so	19DINGENS-01-Z12-18-Q	480-171842-9	06/26/2020 08:50			
480-171842-2	so	19DINGENS-01-Z18-24	480-171842-21	06/25/2020 08:50			
480-171842-2	so	19DINGENS-02-Z00-03	480-171842-22	06/25/2020 11:00			
480-171842-2	so	19DINGENS-02-Z03-06	480-171842-23	06/25/2020 11:00			
480-171842-2	so	19DINGENS-02-Z06-09	480-171842-24	06/25/2020 11:00			
480-171842-2	so	19DINGENS-02-Z09-12	480-171842-25	06/25/2020 11:00			
480-171842-2	so	19DINGENS-02-Z12-18	480-171842-26	06/25/2020 11:00			
480-171842-2	so	19DINGENS-02-Z18-24	480-171842-27	06/25/2020 11:00			
480-171842-2	so	19DINGENS-03-Z00-03	480-171848-1	06/25/2020 11:15			
480-171842-2	so	19DINGENS-03-Z03-06	480-171848-2	06/25/2020 11:15			
480-171842-2	so	19DINGENS-03-Z06-09	480-171848-3	06/25/2020 11:15			

Data Usability Summary Report	Project: 837 Bailey Offsite – 19 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Correcti ons
480-171842-2	so	19DINGENS-03-Z09-12	480-171848-4	06/25/2020 11:15			
480-171842-2	so	19DINGENS-03-Z12-18	480-171848-5	06/25/2020 11:15			
480-171842-2	so	19DINGENS-03-Z18-24	480-171848-6	06/25/2020 11:15			
480-171842-2	so	19DINGENS-04-Z00-03	480-171848-7	06/25/2020 11:25			
480-171842-2	so	19DINGENS-04-Z03-06	480-171848-8	06/25/2020 11:25			
480-171842-2	so	19DINGENS-04-Z06-09	480-171848-9	06/25/2020 11:25			
480-171842-2	so	19DINGENS-04-Z09-12	480-171848-10	06/25/2020 11:25			
480-171842-2	so	19DINGENS-04-Z12-18	480-171848-11	06/25/2020 11:25			
480-171842-2	so	19DINGENS-04-Z18-24	480-171848-12	06/25/2020 11:25			
480-171842-2	so	19DINGENS-05-Z00-03	480-171848-13	06/25/2020 11:35			
480-171842-2	so	19DINGENS-05-Z03-06	480-171848-14	06/25/2020 11:35			
480-171842-2	so	19DINGENS-05-Z06-09	480-171848-15	06/25/2020 11:35		MS/ MSD	
480-171842-2	so	19DINGENS-05-Z09-12	480-171848-16	06/25/2020 11:35			
480-171842-2	so	19DINGENS-05-Z09-12-Q	480-171842-6	06/25/2020 11:35			
480-171842-2	so	19DINGENS-05-Z12-18	480-171848-17	06/25/2020 11:35			
480-171842-2	so	19DINGENS-05-Z18-24	480-171848-18	06/25/2020 11:35			
480-171842-2	so	19DINGENS-06-Z00-03	480-171848-19	06/25/2020 11:45			
480-171842-2	so	19DINGENS-06-Z03-06	480-171848-20	06/25/2020 11:45			
480-171842-2	so	19DINGENS-06-Z06-09	480-171848-21	06/25/2020 11:45			
480-171842-2	so	19DINGENS-06-Z09-12	480-171848-22	06/25/2020 11:45			
480-171842-2	so	19DINGENS-06-Z12-18	480-171848-23	06/25/2020 11:45			
480-171842-2	so	19DINGENS-06-Z18-24	480-171848-24	06/25/2020 11:45			
480-171842-2	so	19DINGENS-07-Z00-03	480-171848-37	06/25/2020 11:55			
480-171842-2	so	19DINGENS-07-Z03-06	480-171848-38	06/25/2020 11:55			
480-171842-2	so	19DINGENS-07-Z06-09	480-171848-39	06/25/2020 11:55			

Data Usability Summary Report	Project: 837 Bailey Offsite – 19 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	ID Correcti ons
480-171842-2	so	19DINGENS-07-Z09-12	480-171848-40	06/25/2020 11:55		
480-171842-2	so	19DINGENS-07-Z12-18	480-171848-41	06/25/2020 11:55		
480-171842-2	so	19DINGENS-07-Z18-24	480-171848-42	06/25/2020 11:55		

SDG	Matrix	Test Method	Number of Samples	Sample Type
480-171842-2	SO	6010C	42	N
480-171842-2	so	6010C	2	FD

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project. 2 FD per 42 samples. 2 MS/MSD per 42 samples. 0 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2, 2A, and 2B)
- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: 837 Bailey Offsite – 19 Dingens		
Date Completed: July 28, 2020	Completed by: Eridania Marte		

Arsenic/Lead by Method 6010C					
Description	Notes and Qualifiers				
Are any compounds present in method and field blanks as noted on Table 2?	No.				
For samples, if results are < 5 times the blank then "U" flag data.	N/A				
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.				
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	No. Lead was recovered below the acceptance criteria in the MS and MSD for sample 19DINGENS-05-Z06-09. The parent sample result was greater than 4X the spike amount. No qualification was made.  Lead was recovered below the acceptance criteria in the MSD for sample 19DINGENS-01-Z09-12. The parent sample result was J qualified as estimated.				
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.				
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.				
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.				
Are serial dilution within QC criteria? (see Table 5)	No. The serial dilution for lead for sample 19DINGENS-01-Z09-12 was outside of the acceptance criteria. The sample result was J qualified as estimated.				
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.				
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.				
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.				
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.				
Were samples re-analyzed or diluted? (see Table 6)	No.				
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.				

# Summary of Potential Impacts on Data Usability

# Concerns

 Lead was recovered outside of the acceptance criteria in the MSD and serial dilution for sample 19DINGENS-01-Z09-12. The parent sample result was J qualified as estimated.

Data Usability Summary Report	Project: 837 Bailey Offsite – 19 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

# Table 2 - List of Positive Results for Blank Samples

None.

Table 2A - List of Samples Qualified for Method Blank Contamination

None.

Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

		Sample		Orig.	Spike			Low	High	Sample
Method	Sample ID	Type	Analyte	Result	Amount	MS	MSD	Limit	Limit	Qualifier
6010C	19DINGENS-05-Z06-09	MS/MSD	Lead	1170	58.7	-108	-295	75	125	None – 4X
6010C	19DINGENS-01-Z09-12	MSD	Lead	50.9	46.0	79	68	75	125	J Flag

# Table 3A - List of RPDs outside Control Limits

None.

# Table 4 - List of LCS Recoveries outside Control Limits

None.

# Table 5 - List of Serial Dilution Recoveries outside Control Limits

Method	Sample ID	Analyte	Orig. Result	Serial Dilution Result	MDL	%D	Sample Qualifier
						, , , ,	
6010C	19DINGENS-01-Z09-12	Lead	50.9	56.38	0.27	11	J Flag

# Table 6 –Samples that were Re-analyzed or Diluted

None.

Table 7 - Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	19DINGENS-01-Z12-18	19DINGENS-01-Z12-18-Q	RPD	RPD Rating	Sample Qual
6010C	Arsenic	mg/kg	SO	2.3	8.8	9.3	5.5%	Good	None
6010C	Lead	mg/kg	SO	1.1	70.2	36.2	63.9%	Good	None

Method	Analyte	Unit	Matrix	PQL	19DINGENS-05-Z09-12	19DINGENS-05-Z09-12-Q	RPD	RPD Rating	Sample Qual

Data Usability Summary Report	Project: 837 Bailey Offsite – 19 Dingens
Date Completed: July 28, 2020	Completed by: Eridania Marte

6010C	Arsenic	mg/kg	SO	2.6	14.2	13.7	3.6%	Good	None
6010C	Lead	mg/kg	SO	1.3	1250	1550	21.4%	Good	None

# **Acronym List and Table Key:**

COC = chain of custody

DUSR = data usability summary report

FD = Field duplicate

LCS = laboratory control sample LR = Laboratory replicate

MB = method blank MS = matrix spike

MSD = matrix spike duplicate

N = Normal sample ND = not detected

NYSDEC = New York State Department of Environmental Conservation

PDS = Post-digestion spike PQL = practical quantitation limit

QA = quality assurance

QAPP = quality assurance project plan

QC = quality control RB = Rinsate blank

RPD = relative percent difference SDG = sample delivery group

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Edison	460-171842-1 480-171846-1	Remedial Design

					Lab	MS/	ID
<b>Work Order</b>	Matrix	Sample ID	Lab ID	Sample Date	QC	MSD	Corrections
460-171842-1	SO	853BAILEY-01-Z00-03	480-171843-19	06/25/2020 16:30			
460-171842-1	SO	853BAILEY-01-Z03-06	480-171843-20	06/25/2020 16:30		MS/MSD	
460-171842-1	SO	853BAILEY-01-Z06-09	480-171843-21	06/25/2020 16:30			
460-171842-1	SO	853BAILEY-01-Z06-09-Q	480-171842-1	06/25/2020 16:30			
460-171842-1	SO	853BAILEY-01-Z09-12	480-171843-22	06/25/2020 16:30			
460-171842-1	SO	853BAILEY-01-Z12-18	480-171843-23	06/25/2020 16:30			
460-171842-1	SO	853BAILEY-01-Z18-24	480-171843-24	06/25/2020 16:30			
460-171842-1	SO	853BAILEY-02-Z00-03	480-171843-25	06/25/2020 11:25		MS/MSD	
460-171842-1	SO	853BAILEY-02-Z03-06	480-171843-26	06/25/2020 11:25			
460-171842-1	SO	853BAILEY-02-Z03-06-Q	480-171842-2	06/25/2020 11:25			
460-171842-1	SO	853BAILEY-02-Z06-09	480-171843-27	06/25/2020 11:25			
460-171842-1	SO	853BAILEY-02-Z09-12	480-171843-28	06/25/2020 11:25			
460-171842-1	SO	853BAILEY-02-Z12-18	480-171843-29	06/25/2020 11:25			
460-171842-1	SO	853BAILEY-02-Z18-24	480-171843-30	06/25/2020 11:25			
460-171842-1	SO	853BAILEY-03-Z00-03	480-171843-31	06/25/2020 11:35			
460-171842-1	SO	853BAILEY-03-Z03-06	480-171843-32	06/25/2020 11:35			
460-171842-1	SO	853BAILEY-03-Z06-09	480-171843-33	06/25/2020 11:35			
460-171842-1	SO	853BAILEY-03-Z09-12	480-171843-34	06/25/2020 11:35			
460-171842-1	SO	853BAILEY-03-Z12-18	480-171843-35	06/25/2020 11:35			
460-171842-1	SO	853BAILEY-03-Z18-24	480-171843-36	06/25/2020 11:35			
460-171842-1	SO	853BAILEY-04-Z00-03	480-171843-37	06/25/2020 11:40			
460-171842-1	SO	853BAILEY-04-Z03-06	480-171843-38	06/25/2020 11:40			
460-171842-1	SO	853BAILEY-04-Z06-09	480-171843-39	06/25/2020 11:40			
460-171842-1	SO	853BAILEY-04-Z09-12	480-171843-40	06/25/2020 11:40			
460-171842-1	SO	853BAILEY-04-Z12-18	480-171843-41	06/25/2020 11:40			
460-171842-1	SO	853BAILEY-04-Z18-24	480-171843-42	06/25/2020 11:40			
460-171842-1	SO	853BAILEY-05-Z00-03-Q	480-171842-3	06/25/2020 11:45			

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

					Lab	MS/	ID
<b>Work Order</b>	Matrix	Sample ID	Lab ID	Sample Date	QC	MSD	Corrections
460-171842-1	SO	853BAILEY-08-Z18-24-Q	480-171842-4	06/25/2020 12:00			
460-171842-1	SO	853BAILEY-11-Z12-18-Q	480-171842-5	06/25/2020 13:25			
480-171846-1	SO	853BAILEY-05-Z00-03	480-171846-1	06/25/2020 11:45			
480-171846-1	SO	853BAILEY-05-Z03-06	480-171846-2	06/25/2020 11:45			
480-171846-1	SO	853BAILEY-05-Z06-09	480-171846-3	06/25/2020 11:45		MS/MSD	
480-171846-1	SO	853BAILEY-05-Z09-12	480-171846-4	06/25/2020 11:45			
480-171846-1	SO	853BAILEY-05-Z12-18	480-171846-5	06/25/2020 11:45			
480-171846-1	SO	853BAILEY-05-Z18-24	480-171846-6	06/25/2020 11:45			
480-171846-1	SO	853BAILEY-06-Z00-03	480-171846-7	06/25/2020 11:55			
480-171846-1	SO	853BAILEY-06-Z03-06	480-171846-8	06/25/2020 11:55			
480-171846-1	SO	853BAILEY-06-Z06-09	480-171846-9	06/25/2020 11:55			
480-171846-1	SO	853BAILEY-06-Z09-12	480-171846-10	06/25/2020 11:55			
480-171846-1	SO	853BAILEY-06-Z12-18	480-171846-11	06/25/2020 11:55			
480-171846-1	SO	853BAILEY-06-Z18-24	480-171846-12	06/25/2020 11:55			
480-171846-1	SO	853BAILEY-07-Z00-03	480-171846-13	06/25/2020 12:15			
480-171846-1	SO	853BAILEY-07-Z03-06	480-171846-14	06/25/2020 12:15			
480-171846-1	SO	853BAILEY-07-Z06-09	480-171846-15	06/25/2020 12:15			
480-171846-1	SO	853BAILEY-07-Z09-12	480-171846-16	06/25/2020 12:15			
480-171846-1	SO	853BAILEY-07-Z12-18	480-171846-17	06/25/2020 12:15			
480-171846-1	SO	853BAILEY-07-Z18-24	480-171846-18	06/25/2020 12:15			
480-171846-1	SO	853BAILEY-08-Z00-03	480-171846-19	06/25/2020 12:00			
480-171846-1	SO	853BAILEY-08-Z03-06	480-171846-20	06/25/2020 12:00			
480-171846-1	SO	853BAILEY-08-Z06-09	480-171846-21	06/25/2020 12:00			
480-171846-1	SO	853BAILEY-08-Z09-12	480-171846-22	06/25/2020 12:00			
480-171846-1	SO	853BAILEY-08-Z12-18	480-171846-23	06/25/2020 12:00		MS/MSD	
480-171846-1	SO	853BAILEY-08-Z18-24	480-171846-24	06/25/2020 12:00			
480-171846-1	SO	853BAILEY-09-Z03-06	480-171846-25	06/25/2020 12:10			
480-171846-1	SO	853BAILEY-09-Z06-09	480-171846-26	06/25/2020 12:10			
480-171846-1	SO	853BAILEY-09-Z09-12	480-171846-27	06/25/2020 12:10			
480-171846-1	SO	853BAILEY-09-Z12-18	480-171846-28	06/25/2020 12:10			
480-171846-1	SO	853BAILEY-09-Z18-24	480-171846-29	06/25/2020 12:10			
480-171846-1	SO	853BAILEY-10-Z00-03	480-171846-30	06/25/2020 13:15			
480-171846-1	SO	853BAILEY-10-Z03-06	480-171846-31	06/25/2020 13:15			
480-171846-1	SO	853BAILEY-10-Z06-09	480-171846-32	06/25/2020 13:15			
480-171846-1	SO	853BAILEY-10-Z09-12	480-171846-33	06/25/2020 13:15			
480-171846-1	SO	853BAILEY-10-Z12-18	480-171846-34	06/25/2020 13:15			
480-171846-1	SO	853BAILEY-10-Z18-24	480-171846-35	06/25/2020 13:15			
480-171846-1	SO	853BAILEY-11-Z00-03	480-171846-36	06/25/2020 13:25			
480-171846-1	SO	853BAILEY-11-Z03-06	480-171846-37	06/25/2020 13:25			
480-171846-1	SO	853BAILEY-11-Z06-09	480-171846-38	06/25/2020 13:25			
480-171846-1	SO	853BAILEY-11-Z09-12	480-171846-39	06/25/2020 13:25		MS/MSD	
480-171846-1	SO	853BAILEY-11-Z12-18	480-171846-40	06/25/2020 13:25			

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	 ID Corrections
480-171846-1	SO	853BAILEY-11-Z18-24	480-171846-41	06/25/2020 13:25		
480-171846-1	SO	853BAILEY-12-Z00-03	480-171846-42	06/26/2020 09:50		
480-171846-1	SO	853BAILEY-12-Z03-06	480-171846-43	06/26/2020 09:50		
480-171846-1	SO	853BAILEY-12-Z06-09	480-171846-44	06/26/2020 09:50		
480-171846-1	SO	853BAILEY-12-Z09-12	480-171846-45	06/26/2020 09:50		
480-171846-1	SO	853BAILEY-12-Z12-18	480-171846-46	06/26/2020 09:50		
480-171846-1	SO	853BAILEY-12-Z18-24	480-171846-47	06/26/2020 09:50		

SDG	Matrix	Test Method	Number of Samples	Sample Type
480-171842-1	SO	6010C	24	N
480-171842-1	SO	6010C	5	FD
480-171842-1	SO	6010C	2	MS/MSD
480-171846-1	SO	6010C	47	N
480-171846-1	SO	6010C	3	MS/MSD

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Sample 853BAILEY-05-Z18-24 was incorrectly marked for MS/MSD on the COC. Sample 853BAILEY-11-Z09-12 was intended for MS/MSD analysis. Correction was made by the laboratory upon communication with E & E.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project. 5 FD per 71 samples. 5 MS/MSD per 71 samples. 0 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2, 2A, and 2B)
- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

# Go to List

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

Arsenic/Lead by Method 6010C	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	N/A
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	Lead was recovered below acceptance criteria in the MSD for sample 853BAILEY-05-Z06-09. The spike amount was less than 4 times the native concentration; therefore, no qualification was made.
	Lead was recovered below acceptance criteria in the MS and MSD for sample 853BAILEY-08-Z12-18. The associated PDS was within acceptance criteria; therefore, the sample result was J qualified as estimated.
	Lead was recovered above acceptance criteria in the MSD for sample 853BAILEY-11-Z09-12. The spike amount was less than 4 times the spike amount; therefore, no qualification was made.
	Lead was recovered below acceptance criteria in the MS and MSD for sample 853BAILEY-01-Z03-06MS/MSD. The spike amount was less than 4 times the native concentration; therefore, no qualification was made.
	Lead was recovered above acceptance criteria in the MS and MSD for sample 853BAILEY-02-Z00-03MS/MSD. The associated PDS was recovered below acceptance criteria. The spike amount was less than 4 times the native concentration; therefore, no qualification was made.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	Lead was recovered below 30% in the MS and MSD for sample 853BAILEY-01-Z03-06. The spike amount was less than 4 times the native concentration; therefore, no qualification was made.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Are serial dilution within QC criteria? (see Table 5)	Arsenic exhibited poor precision in the serial dilution for samples 853BAILEY-05-Z06-09 and 853BAILEY-02-Z00-03. The sample results were J qualified as estimated.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

Arsenic/Lead by Method 6010C				
Description	Notes and Qualifiers			
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.			
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.			
Were samples re-analyzed or diluted? (see Table 6)	No.			
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.			

# Summary of Potential Impacts on Data Usability

# Concerns

- Lead was J qualified in sample 853BAILEY-11-Z09-12 due to low MS and MSD recoveries.
- Arsenic was J qualified in samples 853BAILEY-05-Z06-09 and 853BAILEY-02-Z00-03 due to poor precision in the serial dilution.

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

# Table 2 - List of Positive Results for Blank Samples

None.

# Table 2A - List of Samples Qualified for Method Blank Contamination

None.

# Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

				Orig.	Spike			Low	High	Sample
Method	Sample ID	Sample Type	Analyte	Result	Amount	MS	MSD	Limit	Limit	Qualifier
6010C	853BAILEY-05-Z06-09	MSD	Lead	207	50.1	88	41	75	125	None – 4X
6010C	853BAILEY-08-Z12-18	MS/MSD	Lead	39.9	47.5	63	63	75	125	J Flag
6010C	853BAILEY-11-Z09-12	MSD	Lead	494	49.8	112	325	75	125	None – 4X
6010C	853BAILEY-01-Z03-06	MS/MSD	Lead	424	44.7	-106	7	75	125	None – 4X
6010C	853BAILEY-02-Z00-03	MS/MSD	Lead	257	46	288	271	75	125	None – 4X

# Table 3A - List of RPDs outside Control Limits

None.

# Table 4 - List of LCS Recoveries outside Control Limits

None.

Table 5 - List of Serial Dilution Recoveries outside Control Limits

Method	Sample ID	Analyte	Orig. Result	Serial Dilution Result	MDL	%D	Sample Qualifier
6010C	853BAILEY-05-Z06-09	Arsenic	14.5	16.69	0.51	15	J Flag
6010C	853BAILEY-02-Z00-03	Arsenic	16.5	18.55	0.47	12	J Flag

# Table 6 -Samples that were Re-analyzed or Diluted

None.

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	853BAILEY-01-Z06-09	853BAILEY-01-Z06-09-Q	RPD	RPD Rating	Sample Qual
SW6010C	Arsenic	mg/kg	Solid	2.3	11.6	12.7	9.1%	Good	None
SW6010C	Lead	mg/kg	Solid	1.1	243	253	4.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	853BAILEY-02-Z03-06	853BAILEY-02-Z03-06-Q	RPD	RPD Rating	Sample Qual
SW6010C	Arsenic	mg/kg	Solid	2.3	24.2	25.5	5.2%	Good	None
SW6010C	Lead	mg/kg	Solid	1.2	298	317	6.2%	Good	None

Method	Analyte	Unit	Matrix	PQL	853BAILEY-05-Z00-03	853BAILEY-05-Z00-03-Q	RPD	RPD Rating	Sample Qual
SW6010C	Arsenic	mg/kg	Solid	2.9	12.4	12.1	2.4%	Good	None
SW6010C	Lead	mg/kg	Solid	1.4	230	230	0.0%	Good	None

Method	Analyte	Unit	Matrix	PQL	853BAILEY-08-Z18-24	853BAILEY-08-Z18-24-Q	RPD	RPD Rating	Sample Qual
SW6010C	Arsenic	mg/kg	Solid	2.3	9.7	8.9	8.6%	Good	None
SW6010C	Lead	mg/kg	Solid	1.2	22.4	21.4	4.6%	Good	None

Method	Analyte	Unit	Matrix	PQL	853BAILEY-11-Z12-18	853BAILEY-11-Z12-18-Q	RPD	RPD Rating	Sample Qual
SW6010C	Arsenic	mg/kg	Solid	2.5	9.4	11.7	21.8%	Good	None
SW6010C	Lead	mg/kg	Solid	1.3	234	247	5.4%	Good	None

Data Usability Summary Report	Project: 837 Bailey Offsite - 853 Bailey
Date Completed: July 29, 2020	Completed by: Shawn Kowal

# **Acronym List and Table Key**:

COC = chain of custody

DUSR = data usability summary report

FD = Field duplicate

LCS = laboratory control sample

LR = Laboratory replicate

MB = method blank
MS = matrix spike

MSD = matrix spike duplicate

N = Normal sample ND = not detected

NYSDEC = New York State Department of Environmental Conservation

PDS = Post-digestion spike PQL = practical quantitation limit

QA = quality assurance

QAPP = quality assurance project plan

QC = quality control RB = Rinsate blank

RPD = relative percent difference SDG = sample delivery group

Data Usability Summary Report	Project: 837 Bailey Offsite – 861 Bailey Ave
Date Completed: July 10, 2020	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Buffalo Test America, Edison	480-171676-3 460-212080-1	Remedial Design

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Correct ions
480-171676-3	so	861BAILEY-03-Z00-03	480-171676-73	06/24/2020 14:00			
480-171676-3	so	861BAILEY-03-Z03-06	480-171676-74	06/24/2020 14:00			
480-171676-3	so	861BAILEY-03-Z06-09	480-171676-75	06/24/2020 14:00			
480-171676-3	so	861BAILEY-03-Z09-12	480-171676-76	06/24/2020 14:00			
480-171676-3	so	861BAILEY-03-Z12-18	480-171676-77	06/24/2020 14:00			
480-171676-3	so	861BAILEY-03-Z18-24	480-171676-78	06/24/2020 14:00			
480-171676-3	so	861BAILEY-04-Z00-03	480-171676-79	06/24/2020 14:10			
480-171676-3	so	861BAILEY-04-Z00- 03-Q	480-171676-89	06/24/2020 14:10			
480-171676-3	so	861BAILEY-04-Z03-06	480-171676-80	06/24/2020 14:10			
480-171676-3	so	861BAILEY-04-Z06-09	480-171676-81	06/24/2020 14:10		MS/MSD	
480-171676-3	so	861BAILEY-04-Z09-12	480-171676-82	06/24/2020 14:10			
480-171676-3	so	861BAILEY-04-Z12-18	480-171676-83	06/24/2020 14:10			
480-171676-3	so	861BAILEY-04-Z18-24	480-171676-84	06/24/2020 14:10			
480-171676-3	so	RB-20200624	480-171676-90	06/24/2020 17:00			
460-212080-1	SO	861BAILEY-01-Z00-03	460-212080-1	06/25/2020 11:15			

Data Usability Summary Report	Project: 837 Bailey Offsite – 861 Bailey Ave
Date Completed: July 10, 2020	Completed by: Eridania Marte

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Correct ions
460-212080-1	so	861BAILEY-01-Z03-06	460-212080-2	06/25/2020 11:15			
460-212080-1	so	861BAILEY-01-Z06-09	460-212080-3	06/25/2020 11:15		MS/LR	
460-212080-1	so	861BAILEY-01-Z09-12	460-212080-4	06/25/2020 11:15			
460-212080-1	so	861BAILEY-01-Z09- 12-Q	460-212080-82	06/25/2020 11:15			
460-212080-1	so	861BAILEY-01-Z12-18	460-212080-5	06/25/2020 11:15			
460-212080-1	so	861BAILEY-01-Z18-24	460-212080-6	06/25/2020 11:15			
460-212080-1	SO	861BAILEY-02-Z00-03	460-212080-7	06/24/2020 13:45			
460-212080-1	SO	861BAILEY-02-Z03-06	460-212080-8	06/24/2020 13:45			
460-212080-1	SO	861BAILEY-02-Z06-09	460-212080-9	06/24/2020 13:45			
460-212080-1	SO	861BAILEY-02-Z09-12	460-212080-10	06/24/2020 13:45			
460-212080-1	SO	861BAILEY-02-Z12-18	460-212080-11	06/24/2020 13:45			
460-212080-1	SO	861BAILEY-02-Z18-24	460-212080-12	06/24/2020 13:45			
460-212080-1	SO	861BAILEY-05-Z00-03	460-212080-13	06/24/2020 14:05			
460-212080-1	SO	861BAILEY-05-Z03-06	460-212080-14	06/24/2020 14:05			
460-212080-1	SO	861BAILEY-05-Z06-09	460-212080-15	06/24/2020 14:05			
460-212080-1	SO	861BAILEY-05-Z09-12	460-212080-16	06/24/2020 14:05			
460-212080-1	SO	861BAILEY-05-Z12-18	460-212080-17	06/24/2020 14:05			
460-212080-1	so	861BAILEY-05-Z18-24	460-212080-18	06/24/2020 14:05			

SDG	Matrix	Test Method	Number of Samples	Sample Type
480-171676-3	SO	6010C	12	N
480-171676-3	SO	6010C	1	FD
480-171676-3	SO	6010C	1	RB
460-212080-1	SO	6010D	18	N
460-212080-1	SO	6010D	1	FD

Data Usability Summary Report	Project: 837 Bailey Offsite – 861 Bailey Ave				
Date Completed: July 10, 2020	Completed by: Eridania Marte				

General Sample Information							
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.						
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.						
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project. 2 FD per 30 samples. 2 MS/MSD per 30 samples. 1 rinsate blank.						
Case narrative present and complete?	Yes.						
Any holding time violations?	No.						

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2, 2A, and 2B)
- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: 837 Bailey Offsite – 861 Bailey Ave				
Date Completed: July 10, 2020	Completed by: Eridania Marte				

Arsenic/Lead by Method 6010C	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	N/A
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	No. Lead was recovered outside of the acceptance criteria in the MS and/or MSD for samples 861BAILEY-04-Z06-09 and 861BAILEY-01-Z06-09. The parent sample results were greater than 4X the spike amount. No qualification was made.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Are serial dilution within QC criteria? (see Table 5)	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	Yes. Samples associated with SDG 460-212080-1 were exhibited a 2-folds dilution. No data usability concerns.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Summary of Potential Impacts on Data Usability						
Concerns						
None						

Data Usability Summary Report	Project: 837 Bailey Offsite – 861 Bailey Ave				
Date Completed: July 10, 2020	Completed by: Eridania Marte				

# Table 2 - List of Positive Results for Blank Samples

None.

Table 2A - List of Samples Qualified for Method Blank Contamination

None.

Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	MS	MSD	Low Limit	High Limit	Sample Qualifier
6010C	861BAILEY-04-Z06-09	MS/MSD	Lead	910	50.2	-345	-588	75	125	None – 4X
6010D	861BAILEY-01-Z06-09	MS	Lead	301	47.5	116		75	125	None – 4X

# Table 3A - List of RPDs outside Control Limits

None.

Table 4 - List of LCS Recoveries outside Control Limits

None.

Table 5 - List of Serial Dilution Recoveries outside Control Limits

None.

# Table 6 -Samples that were Re-analyzed or Diluted

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	861BAILEY-01-Z09-12	861BAILEY-01-Z09-12-Q	RPD	RPD Rating	Sample Qual
6010D	Arsenic	mg/kg	SO	2.8	14	15.1	7.6%	Good	None
6010D	Lead	mg/kg	SO	1.9	130	119	8.8%	Good	None

Method	Analyte	Unit	Matrix	PQL	861BAILEY-04-Z00-03	861BAILEY-04-Z00-03-Q	RPD	RPD Rating	Sample Qual
6010C	Arsenic	mg/kg	SO	2.3	15.8	15.7	0.6%	Good	None
6010C	Lead	mg/kg	SO	2.8	761	770	1.2%	Good	None

Data Usability Summary Report	Project: 837 Bailey Offsite – 861 Bailey Ave				
Date Completed: July 10, 2020	Completed by: Eridania Marte				

# **Acronym List and Table Key:**

COC = chain of custody

DUSR = data usability summary report

FD = Field duplicate

LCS = laboratory control sample LR = Laboratory replicate

MB = method blank
MS = matrix spike

MSD = matrix spike duplicate

N = Normal sample ND = not detected

NYSDEC = New York State Department of Environmental Conservation

PDS = Post-digestion spike PQL = practical quantitation limit

QA = quality assurance

QAPP = quality assurance project plan

QC = quality control RB = Rinsate blank

RPD = relative percent difference SDG = sample delivery group

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave				
Date Completed: July 29, 2020	Completed by: Shawn Kowal				

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

# Reference:

Laboratory	Sample Delivery Group	Task Code
Test America, Buffalo Test America, Edison	480-171842-3	Remedial Design

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Lab QC	MS/ MSD	ID Corrections
480-171842-3	SO	863BAILEY-01-Z00-03	480-171842-28	06/25/2020 10:15			
480-171842-3	SO	863BAILEY-01-Z03-06	480-171842-29	06/25/2020 10:15			
480-171842-3	SO	863BAILEY-01-Z06-09	480-171842-30	06/25/2020 10:15			
480-171842-3	SO	863BAILEY-01-Z09-12	480-171842-31	06/25/2020 10:15			
480-171842-3	SO	863BAILEY-01-Z12-18	480-171842-32	06/25/2020 10:15			
480-171842-3	SO	863BAILEY-01-Z18-24	480-171842-33	06/25/2020 10:15			
480-171842-3	SO	863BAILEY-02-Z00-03	480-171842-34	06/25/2020 10:35			
480-171842-3	SO	863BAILEY-02-Z03-06	480-171842-35	06/25/2020 10:35			
480-171842-3	SO	863BAILEY-02-Z06-09	480-171842-36	06/25/2020 10:35			
480-171842-3	SO	863BAILEY-02-Z09-12	480-171842-37	06/25/2020 10:35			
480-171842-3	SO	863BAILEY-02-Z12-18	480-171842-38	06/25/2020 10:35			
480-171842-3	SO	863BAILEY-02-Z18-24	480-171842-39	06/25/2020 10:35		MS/MSD	
480-171842-3	SO	863BAILEY-03-Z00-03	480-171843-1	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-03-Z03-06	480-171843-2	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-03-Z06-09	480-171843-3	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-03-Z09-12	480-171843-4	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-03-Z12-18	480-171843-5	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-03-Z18-24	480-171843-6	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-04-Z00-03	480-171843-7	06/25/2020 11:00			
480-171842-3	SO	863BAILEY-04-Z03-06	480-171843-8	06/25/2020 11:00			
480-171842-3	SO	863BAILEY-04-Z06-09	480-171843-9	06/25/2020 11:00			
480-171842-3	SO	863BAILEY-04-Z09-12	480-171843-10	06/25/2020 11:00			
480-171842-3	SO	863BAILEY-04-Z12-18	480-171843-11	06/25/2020 11:00			
480-171842-3	SO	863BAILEY-04-Z18-24	480-171843-12	06/25/2020 11:00			
480-171842-3	SO	863BAILEY-05-Z00-03	480-171848-25	06/25/2020 15:10			

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave
Date Completed: July 29, 2020	Completed by: Shawn Kowal

					Lab	MS/	ID
<b>Work Order</b>	Matrix	Sample ID	Lab ID	Sample Date	QC	MSD	Corrections
480-171842-3	SO	863BAILEY-05-Z03-06	480-171848-26	06/25/2020 15:10			
480-171842-3	SO	863BAILEY-05-Z06-09	480-171848-27	06/25/2020 15:10		MS/MSD	
480-171842-3	SO	863BAILEY-05-Z09-12	480-171848-28	06/25/2020 15:10			
480-171842-3	SO	863BAILEY-05-Z12-18	480-171848-29	06/25/2020 15:10			
480-171842-3	SO	863BAILEY-05-Z18-24	480-171848-30	06/25/2020 15:10		MS/MSD	
480-171842-3	SO	863BAILEY-06-Z00-03	480-171848-31	06/25/2020 15:40			
480-171842-3	SO	863BAILEY-06-Z03-06	480-171848-32	06/25/2020 15:40			
480-171842-3	SO	863BAILEY-06-Z06-09	480-171848-33	06/25/2020 15:40		MS/MSD	
480-171842-3	SO	863BAILEY-06-Z09-12	480-171848-34	06/25/2020 15:40			
480-171842-3	SO	863BAILEY-06-Z09-12-Q	480-171842-7	06/25/2020 14:30			
480-171842-3	SO	863BAILEY-06-Z12-18	480-171848-35	06/25/2020 15:40			
480-171842-3	SO	863BAILEY-06-Z18-24	480-171848-36	06/25/2020 15:40			
480-171842-3	SO	863BAILEY-07-Z00-03	480-171843-13	06/25/2020 11:05			
480-171842-3	SO	863BAILEY-07-Z03-06	480-171843-14	06/25/2020 11:05			
480-171842-3	SO	863BAILEY-07-Z06-09	480-171843-15	06/25/2020 11:05		MS/MSD	
480-171842-3	SO	863BAILEY-07-Z09-12	480-171843-16	06/25/2020 11:05			
480-171842-3	SO	863BAILEY-07-Z12-18	480-171843-17	06/25/2020 11:05			
480-171842-3	SO	863BAILEY-07-Z18-24	480-171843-18	06/25/2020 11:05			
480-171842-3	SO	RB-20200626	480-171842-8	06/25/2020 10:15			

SDG	Matrix	Test Method Number of Samples		Sample Type
480-171842-3	SO	6010C	42	N
480-171842-3	SO	6010C	1	FD
480-171842-3	SO	6010C	5	MS/MSD
480-171842-3	SO	6010C	1	RB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	The frequency of field QC will be evaluated at the end of project.  1 FD per 42 samples.  5 MS/MSD per 42 samples.  1 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

• Method Blanks Results (Table 2, 2A, and 2B)

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave
Date Completed: July 29, 2020	Completed by: Shawn Kowal

- MS/MSD Outside Limits (Table 3 and 3A)
- LCS Outside Limits (Table 4)
- Serial Dilution Outside Limits (Table 5)
  Reanalysis Results (Table 6)
  Field Duplicate Results (Table 7)

Go to List

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave
Date Completed: July 29, 2020	Completed by: Shawn Kowal

Arsenic/Lead by Method 6010C	
Description	Notes and Qualifiers
	No.
Are any compounds present in method and field blanks as noted on Table 2?	
For samples, if results are < 5 times the blank then "U" flag data.	N/A
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 3)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	Lead was recovered below acceptance criteria in the MSD for sample 863BAILEY-05-Z06-09. In addition, RPD between the MS and MSD was above acceptance. The native sample concentration was greater than 4 time the spike amount; therefore, no qualification was made.  Lead was recovered above acceptance criteria in the MSD for sample 863BAILEY-06-Z06-09. In addition, RPD between the MS and MSD was above acceptance. The native sample concentration was greater than 4 time the spike amount; therefore, no qualification was made.  The post digestion spike was recovered below
	acceptance criteria in samples 863BAILEY-07-Z06- 09 and 863BAILEY-05-Z06-09. Associated MS and MSD results were within acceptance criteria therefore, no qualification was made.
Were elements recovered ≤30%? If so, "R" flag associated NDs.	No.
Is LCS within QC criteria (see Table 4)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Are serial dilution within QC criteria? (see Table 5)	Arsenic exhibited poor precision in the serial dilution for sample 863BAILEY-07-Z06-09. The sample result was J qualified as estimated.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110%. Contact lab if unacceptable.	Yes.
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.
Were samples re-analyzed or diluted? (see Table 6)	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave				
Date Completed: July 29, 2020	Completed by: Shawn Kowal				

Summary of Potential Impacts on Data Usability						
Conce	erns					
•	Arsenic was J qualified in sample 863BAILEY-07-Z06-09 due to poor precision in the serial					

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave
Date Completed: July 29, 2020	Completed by: Shawn Kowal

# Table 2 - List of Positive Results for Blank Samples

None.

# Table 2A - List of Samples Qualified for Method Blank Contamination

None.

# Table 2B - List of Samples Qualified for Field Blank Contamination

None.

# Table 3 - List of MS/MSD Recoveries outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	MS	MSD	Low Limit	High Limit	Sample Qualifier
6010C	863BAILEY-05-Z06-09	MSD	Lead	344	41.4	114	-75	75	125	None – 4X
6010C	863BAILEY-06-Z06-09	MSD	Lead	618	46.6	92	1043	75	125	None – 4X

# Table 3A – List of RPDs outside Control Limits

	Method	Sample ID	Analyte	RPD	RPD Limit	Sample Qualifier	
Ī	6010C	863BAILEY-05-Z06-09	Lead	22	20	None – 4X	
Ī	6010C	863BAILEY-06-Z06-09	Lead	50	20	None – 4X	

# Table 4 - List of LCS Recoveries outside Control Limits

None.

Table 5 - List of Serial Dilution Recoveries outside Control Limits

Method	Sample ID	Analyte	Orig. Result	Serial Dilution Result	MDL	%D	Sample Qualifier
6010C	863BAILEY-07-Z06-09	Arsenic	18.1	20.92	0.49	16	J Flag

# Table 6 -Samples that were Re-analyzed or Diluted

None.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	863BAILEY-06-Z09-12	863BAILEY-06-Z09-12-Q	RPD	RPD Rating	Sample Qual
SW6010C	Arsenic	mg/kg	Solid	2.4	13.6	15.2	11.1%	Good	None
SW6010C	Lead	mg/kg	Solid	1.2	562	669	17.4%	Good	None

Data Usability Summary Report	Project: 837 Bailey Offsite – 863 Bailey Ave
Date Completed: July 29, 2020	Completed by: Shawn Kowal

# Acronym List and Table Key:

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RPD = relative percent difference SDG = sample delivery group