

**LEAD IN SOIL TESTING PROGRAM
WINNIPEG, MANITOBA**

Prepared for:

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EXECUTIVE SUMMARY

Under the direction of Manitoba Environment, Climate and Parks (MECP), Parsons Inc., in collaboration with Intrinsik Corp., conducted a soil lead sampling and assessment program in October/November 2021 and provided a review and interpretation of the lead analytical results and recommendations for further action. The work was conducted as follow up to the assessment conducted in 2019 by Intrinsik (Intrinsik, 2019). The investigation was conducted on public areas (parks or schools) in 40 neighbourhoods specified by MECP based on the priority areas specified from the 2019 assessment, and were generally located in the central parts of the City of Winnipeg, as well as within 500 m of the airport. Samples were collected from 53 school properties and 147 parks within these neighborhoods, for a total of 200 sites. From those 200 sites, a total of 2018 distinct locations were sampled for lead and compared to guidelines. Soil samples were collected at a depth of 0 - 2.5 cm below grade. The sampling sites focused primarily on public areas where children under seven years old frequent as they are at the greatest risk from exposure.

The results of the soil investigation indicated that of 2013 samples collected (excludes samples noted below), 118 (5.9%) contained concentrations of lead greater than the Canadian Council of Ministers of the Environment (CCME) Soil Quality Guideline (SQG) of 140 mg/kg, while 48 (2.4%) were greater than 210 mg/kg. One sample location (comprised of five individual samples) from Mission Park was excluded from these totals since concentrations were significantly higher (maximum of 88,000 mg/kg) than those from the other samples and artificially skewed the overall results.

It is recommended that further action is taken for a number of individual sites (parks or schools) sampled in 2021, which had concentrations greater than the referenced guidelines. Six sites have been identified as high priority for further action. An additional 20 sites were identified as medium priority, and 16 sites were identified as low priority. These actions will be based on an evaluation of risk, and may include inspection to ensure sufficient sod/vegetation cover to restrict direct access to exposed soils, further sampling to delineate exceedances, the application of capping measures (soil or hard surfaces), localized soil removal and replacement programs, or other appropriate options that limit direct exposure to impacted soils.

Based primarily on the results of the 2021 soil investigation, soil lead concentrations for a number of neighbourhoods have been identified for further action. Given that this work was a focused sampling initiative on schools and parks, several neighbourhoods with fewer applicable sampling sites (parks or schools) had a lower number of samples collected, and therefore the overall results may be skewed by the occurrence of one or two outliers. Consideration must be given to whether the sampling data is reflective of conditions across the neighbourhood as a whole, and of soil lead concentrations on residential properties where young children are likely to have the greatest opportunity for exposure. Several other neighbourhoods were not specifically identified for further consideration as a result of lower overall soil lead concentrations; however, it should be recognized that areas with higher soil lead concentrations than those identified in the selected

sampling locations may exist. Consistent with recommendations provided by Intrinsik (2019), the assessment of potential risks associated with soil lead concentrations indicates that further study may be warranted. The neighbourhoods identified for further consideration, based on an analysis of the 2021 analytical data exclusively, are Centennial, Central St. Boniface, Daniel McIntyre, Dufresne, Holden, South Point Douglas, Weston, and William Whyte. Other neighbourhoods sampled in 2021 may be identified for further analysis at a later date, given limitations of the 2021 data set.

It is recommended that further evaluation of the current and available historical data is conducted along with a data gap analysis to identify those additional areas (neighbourhoods) that may require supplemental soil sampling. Consideration should also be given to collecting soil samples from residential properties for those neighbourhoods where soil lead concentrations on public spaces have been identified for further consideration, or where the low number of parks or schools in the neighbourhood resulted in a limited number of samples being collected during the 2021 investigation.

Given that there are sufficient data to demonstrate that soil lead concentrations in certain neighbourhoods warrant further consideration, blood lead monitoring may be an effective approach for assessing risks and the potential need for further soil sampling and/or the implementation of risk management measures. The objective of blood lead monitoring is to measure actual levels of lead exposure, which will help determine if exposures experienced by young children represent a potential health concern.

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a – one summary drawing for each sampling site, for a total of 201 pages (note: Kavanagh park straddles two neighbourhoods; two drawings are provided)

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1.0 INTRODUCTION

Under the direction of Manitoba Environment, Climate and Parks (MECP) (formerly Manitoba Conservation and Climate (MCC)), Parsons Inc. (Parsons) in collaboration with Intrinsik Corp (Intrinsik), conducted a soil sampling and assessment program consisting of lead sampling at selected properties (hereafter referred to as “sites”) in 40 neighbourhoods within the City of Winnipeg, Manitoba. As discussed below, the sampling program focused on public areas where toddlers and children under seven years frequent, such as schools, parks and fields or other green spaces. The soil sampling was undertaken for the purpose of the evaluation of shallow soil lead concentrations where toddlers and children under the age of seven frequent. This assessment program also included the analysis and interpretation of the analytical results and recommendations for go-forward action.

The field work was conducted in October and November 2021.

1.1 SCOPE OF WORK

The scope of work consisted of:

- Selecting 200 sampling sites on public lands (parks and schools) within the 40 specified neighbourhoods for soil sampling, with the approval of the sampling sites by MECP;
- Collecting shallow soil samples at a depth of approximately 0 - 2.5 cm below ground surface and the submission of the samples for laboratory analysis of lead; and,
- Preparation of a report that describes the sampling methodology, sample locations (including GPS coordinates), the results of the investigation, an analysis of the results, and high-level recommendations for further work.

2.0 BACKGROUND

Elevated concentrations of lead were detected in shallow soils during previous investigations in various central areas in the City of Winnipeg. The most recent applicable investigations consisted of shallow soil sampling conducted in 2007/2008 by Manitoba Conservation (MC, 2010), in 2017 by the University of Manitoba (U of M, 2017) and in 2018 by Manitoba Sustainable Development (MSD, 2019), however studies date back to between 1979 and 1985 when investigations detected elevated concentrations in soil at Weston School (MCC, 2021a).

In 2019, an assessment was completed by Intrinsik including a review of the available data, current and historical sources of lead in Winnipeg, and a jurisdictional overview of approaches for assessing and managing lead in soil in Canada (Intrinsik, 2019). The report indicated there was a variety of sources of lead within the City of Winnipeg, including automobile exhaust from leaded gasoline, and three secondary lead smelters that previously operated in the northwest

area of the City. Other possible sources cited included scrap yards (from physical manipulation of lead-containing products), as well as rail yards/lines, waste-transfer stations, and other commercial/industrial operations in various areas of the City. Additionally, lead paint was cited as a possible source of lead in older neighbourhoods in the City. The primary sources of lead emissions are no longer present, following the phase-out of leaded gasoline from automobiles and the ceasing of smelter operations. Elevated concentrations of lead often persist in surface soils; leaching of lead is limited due to its tendency to adsorb to soil particles and it does not degrade over time. Leaded pipes in older neighbourhoods present a source of lead in drinking water.

As part of the 2019 assessment, a preliminary calculation of site-specific remediation criteria was undertaken to generate a guideline range for lead in soil based on non-threshold contaminant approach, with protection of neurodevelopment effects among infants and children as the primary health concern related to lead exposure (Intrinsik, 2019). The 2019 report indicated several neighbourhoods of potential concern, with a recommendation that testing and evaluation of lead concentrations in soil be conducted to support future decision making (Intrinsik, 2019).

3.0 SOIL SAMPLING LOCATIONS

3.1 NEIGHBOURHOODS

A total of 40 neighbourhoods within Winnipeg were selected by MECP for sampling (MCC, 2021a). The neighbourhoods specified are shown on Drawing No. 1 and included:

- | | |
|------------------------|--------------------------------|
| • Archwood | • Mynarski |
| • Brooklands | • North Point Douglas |
| • Burrows Central | • Norwood East |
| • Burrows-Keewatin | • River-Osborne |
| • Centennial | • Riverview |
| • Central St. Boniface | • Robertson |
| • Chalmers | • Sargent Park |
| • Daniel McIntyre | • Shaughnessy Park |
| • Dufferin | • South Point Douglas |
| • Dufferin Industrial | • St. Boniface Industrial Park |
| • Dufresne | • St. John's |
| • East Elmwood | • St. John's Park |
| • Glenelm | • Stock Yards |
| • Holden | • Tissot |
| • Inkster-Faraday | • Tyndall Park |
| • Lord Roberts | • Weston |
| • Lord Selkirk Park | • William Whyte |
| • Luxton | • Windsor Park |

- Minto
- Mission Industrial
- Wolseley
- Winnipeg International Airport (buffer zone of 500 metres)

The neighbourhood boundaries were retrieved from the City of Winnipeg “Neighbourhood” map available from the Open Data Catalogue (City of Winnipeg, 2021a). For the airport area, a distance of 500 m was marked from the boundary of the “Airport” neighbourhood.

3.2 SELECTION OF SAMPLING SITES AND LOCATIONS

The sampling program focused mainly on public areas where toddlers and children less than seven years old frequent, as directed by MECP. Specifically, a total of 200 properties (sites) were selected for sampling within the specified neighbourhoods.

The following sites were prioritized for sampling as agreed by MECP:

- Elementary schools with grades that would include children under seven; and,
- Parks, open spaces, and greenfields, particularly those with play structures, wading pools, picnic areas, etc. that would attract young children.

The data sources reviewed and used to identify the sampling sites were as follows:

- Parks, open spaces, and greenfield/future park spaces owned by the City of Winnipeg were identified from the Map of Parks and Open Space (City of Winnipeg, 2021b).
- Public schools were identified using school division websites, maps, and/or lists (Louis Riel School Division 2021, Division Scolaire Franco-Manitobaine 2021, Winnipeg School Division 2021, St. James-Assiniboia School Division, 2021).
- Several independent elementary schools within the specified neighbourhoods were also included for sampling, as agreed by MECP.
- The property boundaries of the sites (schools and parks) were based on the City of Winnipeg map of Assessment Parcels (City of Winnipeg, 2021c).

The selected sampling sites within the 40 neighbourhoods are summarized on Drawings No. A.1 to A.40 in Appendix A.

The number of samples and specific sampling locations within each site (school or park) were selected based the size of the site, consideration for spatial distribution of sample locations, and location of any park/school facilities based on aerial photographs. Locations were chosen to avoid sampling imported fill materials (such as imported sand or gravel). Sampling locations were also chosen to avoid sampling directly underneath or adjacent to painted play structures, fences and buildings.

Note that for select sample locations (three locations, mainly prioritizing samples with high lead results), a laboratory re-analysis was requested of the originally submitted soil sample. Also, in a select number of locations (five), a return visit was conducted and additional soil samples were collected in proximity to samples which contained elevated concentrations.

3.2.1 SCHOOL PROPERTIES

A total of 53 school properties were sampled, as follows:

School Division	Number of Sampling Sites
Winnipeg School Division	40 ^a
St. James Assiniboia School Division	1
Louis Riel School Division	7
Division Scolaire Franco-Manitobaine	2
Independent Schools	3
Total:	53

a - includes Margaret Scott Park, which is owned by the Winnipeg School Division

Note: Weston School was reported to be previously assessed for lead, and was not sampled as part of the current assessment program.

3.2.2 CITY OF WINNIPEG PROPERTIES

A total of 147 City-owned sites were sampled, including parks, opens spaces, and greenfields/future parks owned by the City of Winnipeg (City of Winnipeg, 2021b). There are also two small parcels owned by the City that are used by the adjacent school (both within the Winnipeg School Division).

Description	Number of Sampling Sites
City properties	147
City properties used by Schools	2 ^a

a – these are small properties adjacent to a larger parcel and are not considered to be separate sampling sites when discussing total number of sites sampled.

4.0 SOIL SAMPLING PROTOCOLS

The field procedures were conducted in accordance with generally accepted industry practices.

Prior to sampling, the sampling equipment was laid on clean plastic sheeting to prevent contact with surrounding media. Soil sampling was conducted using a stainless-steel soil probe sampler device with a 1.5 cm inner diameter core. Any excess soil was brushed off prior to scrubbing the sampling devices with a solution of phosphate free detergent and water, then rinsed with distilled water and allowed to air dry.

As noted above, areas directly under or adjacent to potential sources of lead contamination (for example, painted play structures, fences and buildings) and areas with amended soils (such as imported gravel, sand, or silt/clay) were avoided for sampling. A pair of clean disposable nitrile

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gloves was worn and swapped out for each sampling location to mitigate potential cross contamination during sampling.

At each sampling location an “x” was created using two meter sticks to guide sample collection. During sampling, the stainless-steel probe was advanced into the ground using a twisting motion to a depth of approximately 2.5 cm. Along each meter stick five soil plugs were collected. For areas covered with sod, the probe was advanced until it was 2.5 cm into the soil-containing layer. The soil from each plug was retained and combined in a clean plastic sample bag provided by the laboratory to create a composite sample to be submitted for analysis. During the sampling process, organic material such as grass, roots and foreign objects were removed from the soil plugs before being placed in the bag to create the composite sample.

The bag containing the composite soil samples were placed within a second sample bag to prevent puncturing or sample leaks and each composite sample was stored in a cooler prior to shipment to the lab. Each soil sample was submitted to the laboratory for analysis of lead.

Sample locations were recorded using a Trimble Geo 7X handheld GPS.

Permission and/or notification to access the sites was arranged by MECP for the applicable school divisions, independent schools, and the City.

5.0 LABORATORY ANALYSIS

The soil samples collected were submitted for analysis of lead to Bureau Veritas (BV, formerly Maxxam Analytics), a laboratory accredited by the Canadian Association for Environmental Analytical Laboratories (CAEAL). Analytical methods used by the laboratory are referenced in the appended laboratory certificates of analysis.

The samples analyzed consisted of:

Description	Number of Samples
Total composite soil sampling locations	2018
Quality assurance/quality control samples (duplicates)	99
Samples re-analyzed by the laboratory using the originally submitted soil sample	3
Total Samples Analyzed:	2120

6.0 SOIL LEAD GUIDELINES

Soil analytical results for lead have been compared to the current Canadian Council of Ministers of the Environment (CCME) Soil Quality Guideline (SQG) of 140 mg/kg, for residential/parkland land use (CCME, 1999). As described by Intrinsik (2019), the current CCME guideline is not based on the most recent scientific evidence regarding lead toxicity.

The guideline range developed by Intrinsik (2019) of 100 mg/kg to 210 mg/kg for residential soils was also referenced, which is reflective of the current state of the science on lead toxicity. This guideline was developed using standard CCME approaches for non-threshold contaminants, and is intended to be protective of neurodevelopmental effects in children. The guideline was calculated based on a range of recently endorsed non-threshold-based toxicity reference values and literature-based bioaccessibility estimates. Further information is presented by Intrinsik (2019).

7.0 SUMMARY OF SOIL ANALYTICAL RESULTS

The soil analytical results for lead are presented and compared to the above-referenced guidelines as follows:

- Table 1 presents the 2021 soil analytical results, as well as relevant details including the sampling date, neighbourhood name, park/school name, property owner, and school division if applicable. The GPS coordinates of each sampling location are also provided;
- Drawing No. 2 is a graphical representation of the soil analytical results for each neighbourhood sampled;
- Drawing Nos. 4.1 to 4.5 presents an overview of soil analytical results for selected Community Health Areas which encompasses numerous neighbourhoods; and,
- Drawing Nos. 6.1(1) to 6.39(9)^a includes 201 drawings^b summarizing the soil analytical results for each sampling site (park or school property), ordered alphabetically by neighbourhood, then alphabetically by park name.

Note, for Table 1 and Drawing Nos. 6.1(1) to 6.39(9), which presents the full 2021 data set of analyzed samples, both the sample and duplicate and/or sample and re-test results are shown.

Additional information is provided in the following appendices:

^a There were 39 neighbourhoods sampled; one neighbourhood (Dufferin Industrial) had no parks/schools.

^b Kavanagh Park extends into two neighbourhoods; two drawings are provided.

- Appendix A: The selected sampling sites within the 40 neighbourhoods are summarized on Drawing Nos. A.1 to A.40;
- Appendix B: Photographs taken of sampling sites (note, photographs of sites where children were present where curtailed);
- Appendix C: A description and review of the quality assurance and quality control results; and,
- Appendix D: The laboratory certificates of analysis for the soil analytical results.

8.0 REVIEW AND INTERPRETATION OF SOIL LEAD RESULTS

A review and interpretation of the 2021 soil lead results is presented herein. This analysis concentrates mainly on 2021 analytical data, however Section 8.1.1 in particular includes a comparison of results collected from previous investigations. The overall approach is as follows:

- neighbourhood-wide analysis based on 2021 analytical data and identification of neighbourhoods for further consideration;
- a comparison of 2021 data to results from previous investigations for 10 neighbourhoods previously identified in 2019 for further consideration;
- a brief summary of potential sources of lead in Winnipeg, as identified in the Intrinsic (2019) study;
- community health area analysis including consideration of known sources of lead, as well as community composition, socioeconomic conditions, health indicators and access. These factors may indicate increased risk of adverse effects related to lead exposure; and,
- a discussion of lead concentrations for specific sites (schools or parks) identified for further study and the assignment of a recommended priority level for further analysis.

8.1 NEIGHBOURHOOD-WIDE DATA ANALYSIS

Soil lead concentrations were analyzed based on the neighbourhood in which the samples were collected. Table 2 presents the total number of samples and identifies the maximum and average (arithmetic mean) concentrations for each neighbourhood. A graphical representation of the data collected from each neighbourhood is presented on Drawing No. 2a and 2b. Where duplicates were collected or samples were re-tested, the higher of the concentrations reported for the original sample and duplicate or re-test were selected to represent the concentration for that sample. To provide an indication of the frequency and magnitude of the exceedances of health-based criteria, concentrations were compared to both the current CCME Soil Quality Guideline (SQG) of 140 mg/kg for lead in residential/parkland soils, and a concentration equal to the upper limit of the range of potential SQGs derived to be reflective of the current state of the science on lead toxicity (100-210 mg/kg) (Intrinsik, 2019). Neighbourhoods were retained for further consideration if either of the following conditions existed:

- 10% or more of samples with concentrations greater than the CCME SQG of 140 mg/kg;
- An average concentration greater than the low end of the range of 100-210 mg/kg.

It should be noted however, that due to the relatively small sample size for several of the neighbourhoods, the data in those neighbourhoods may not truly reflect the overall range or average soil lead conditions across the area as a whole.

<i>Neighbourhood</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Airport	24	190	35	1 (4.2%)	0
Airport Buffer (Jameswood)	25	77	24	0	0
Airport Buffer (King Edward)	21	43	20	0	0
Archwood	28	250	53	1 (3.6%)	1 (3.6%)
Brooklands	49	160	49	1 (2.0%)	0
Burrows Central	31	90	24	0	0
Burrows Keewatin	30	59	27	0	0
Centennial	87	390	75	15 (17%)	6 (6.9%)
Central St. Boniface	60	970	110	16 (27%)	6 (10%)
Chalmers	83	270	48	2 (2.4%)	1 (1.2%)
Daniel McIntyre	49	310	69	7 (14%)	4 (8.2%)
Dufferin	51	290	45	3 (5.9%)	2 (3.9%)
Dufresne	19	200	46	2 (11%)	0
East Elmwood	80	340	47	4 (5%)	1 (1.3%)
Glenelm	38	140	47	0	0
Holden	20	990	150	3 (15%)	3 (15%)
Inkster-Faraday	44	220	67	3 (6.8%)	1 (2.3%)
Lord Roberts	89	240	42	2 (2.2%)	1 (1.1%)
Lord Selkirk	48	330	63	3 (6.3%)	1 (2.1%)

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Table 2 Comparison of Maximum and Average Concentrations of Lead in Soil (2021 Investigation Results) by Neighbourhood to the CCME SQG and Upper Potential SQG (Intrinsik 2019)					
<i>Neighbourhood</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Luxton	21	2,000^b	120	2 (9.5%)	1 (4.5%)
Minto	48	210	64	4 (8.3%)	0
Mission Industrial	28	88,000	7,300	7 (25%)	7 (25%)
Mynarski	8	54	41	0	0
North Point Douglas	70	910	64	6 (8.6%)	3 (4.3%)
Norwood East	56	850	49	3 (5.4%)	1 (1.8%)
River-Osborne	55	260	48	4 (7.3%)	1 (1.8%)
Riverview	76	460	45	6 (7.9%)	2 (2.6%)
Robertson	55	130	41	0	0
Sargent Park	59	210	62	4 (6.8%)	0
Shaughnessy Park	35	80	37	0	0
South Point Douglas	18	380	140	6 (33%)	4 (22%)
St. Boniface Industrial Park	37	210	26	1 (2.7%)	0
St. John's	62	190	40	1 (1.6%)	0
St. John's Park	19	340	62	1 (5.3%)	1 (5.3%)
Stock Yards	13	54	22	0	0
Tissot	3	99	68	0	0
Tyndall Park	130	130	23	0	0
Weston	61	3,400	130	5 (8.2%)	1 (1.6%)
William Whyte	47	430	76	8 (17%)	4 (8.5%)
Windsor Park	166	53	22	0	0
Wolseley	75	220	48	2 (2.7%)	1 (1.3%)

Bold Concentration exceeds the CCME SQG of 140 mg/kg.

Grey Neighbourhoods highlighted in grey had 10% or more samples with concentrations above the CCME SQG of 140 mg/kg and/or an average concentration above the low end of the range of 100-210 mg/kg.

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

^b Concentration in original sample was 2,000 mg/kg. Concentration in re-test was 120 mg/kg.

Note: No samples were collected from Dufferin Industrial neighbourhood since there are no schools or City parks.

Although the neighbourhood of Luxton had an overall average concentration (120 mg/kg) that exceeded the lower end of the range of 100-210 mg/kg, this is primarily due to the occurrence of a concentration of 2,000 mg/kg measured in a sample (LX-LC-05, Drawing No. 6.18(2)) collected from Luxton Community Centre. Since this concentration was significantly higher than concentrations measured from other samples collected from this site, the sample was requested for laboratory re-analysis (using the originally submitted soil) which resulted in a concentration of 120 mg/kg. When a concentration of 120 mg/kg is used to represent this sample, the overall average for the neighbourhood is reduced to 35 mg/kg, with 4.8% of samples with concentrations exceeding 140 mg/kg. Therefore, overall, the neighbourhood of Luxton was not considered to be a priority for further investigation. Due to the uncertainty associated with the elevated concentration of lead measured in the sample (LX-LC-05), concerns related to this sample will be considered during site-specific analysis, presented below.

The neighbourhood of Mission Industrial represents a large area consisting almost entirely of commercial and industrial properties. Sampling in this neighbourhood was limited to the northern portion of Kavanagh Park (for which lead concentrations ranged from 21 to 48 mg/kg in eight samples) and Mission Park (for which significantly elevated concentrations were identified). Mission Park is located in the northwest corner of this neighbourhood and accounts for much of the limited non-commercial/industrial land. While concentrations in Mission Park represent a concern for this particular site, the absence or limited occurrence of residential properties, parks, or schools in this neighbourhood likely limits the opportunities for frequent and prolonged exposure for children. Therefore, due to the nature of the properties in this area, the neighbourhood of Mission Industrial was not considered to be a priority for further investigation.

Based on the comparisons provided in Table 2, and the discussion regarding the Luxton and Mission Industrial neighbourhoods above, the following eight (8) neighbourhoods were identified for further consideration related to lead in soils based on the 2021 sampling results:

- Centennial
- Central St. Boniface
- Daniel McIntyre
- Dufresne
- Holden
- South Point Douglas
- Weston
- William Whyte

The neighbourhoods identified for further consideration based on the 2021 investigation are summarized on Drawing No. 5.

It is noted that a limited number of samples were collected from several of these neighbourhoods which can result in one or two outliers skewing the results of statistical tests. Consideration must be given to whether the sampling data is reflective of conditions across the neighbourhood as a whole, and, of soil lead concentrations on residential properties where young children are likely to have the greatest opportunity for exposure.

Several other neighbourhoods have a proportion (but less than 10%) of samples greater than 140 mg/kg based on results of the 2021 investigation. These neighbourhoods were not identified for further consideration; however, it should be recognized that areas with higher soil lead concentrations than those identified in the selected sampling locations may exist.

Further consideration of these eight (8) neighbourhoods was conducted through additional statistical analysis, comparison to data collected from these neighbourhoods during previous soil studies, and consideration of factors such as the presence of vulnerable populations and proximity to environmental sources of lead. This analysis is intended to determine if soil results indicate the potential for neighbourhood-wide lead issues that may require further investigation.

8.1.1 COMPARISON OF 2021 DATA TO PREVIOUS INVESTIGATIONS FOR SELECTED NEIGHBOURHOODS

Ten neighbourhoods were identified in the 2019 analysis as having potential concern based on previous investigations (Intrinsik, 2019). For these neighbourhoods, the average and 95% upper confidence limit on the mean (UCLM) concentrations from previous soil investigations were compared to those from the 2021 investigation. Previous soil investigations included in the analysis are:

- 2007/2008 investigation by Manitoba Conservation (MC, 2010),
- 2018 investigation by Manitoba Sustainable Development (MSD, 2019), and,
- 2017 investigation by University of Manitoba (U of M, 2017), for the community of St. Boniface only.

As several samples from the 2018 investigation were intended to be co-located with the sampling sites from the 2007/2008 investigation, these two data sets were not combined. Separating these data also allowed for consideration of the influence of the different sampling depths utilized in each of these studies (*i.e.*, ≤ 5 cm for the 2007/2008 data set and 0-7.5 cm for the 2018 data set).

Several neighbourhoods identified for further consideration in Section 8.1 based on the 2021 data were not specifically characterized in the previous investigations and therefore were not included for comparison in Table 3 (specifically Dufresne, Holden, South Point Douglas, and William Whyte).

The average and 95% UCLM soil lead concentrations for the current 2021 investigation were generally lower than those for data collected during the previous investigations referenced above (MC 2010, MSD 2019, U of M 2017), as summarized in Table 3. The generally lower concentrations in these neighbourhoods measured during the 2021 investigation may be associated with a number of factors, including:

- Sample locations and property uses. The 2021 samples were collected from public parks, green spaces, community centres, and school yards. The University of Manitoba (2017) sampling included commercial and residential properties from the St. Boniface area. The Manitoba Conservation (2010) data included samples collected from residential boulevards, playgrounds, schools.
- Number of samples collected in each neighbourhood. Previous investigations for several neighbourhoods included the collection of a relatively small number of samples which can result in average and 95% UCLM concentrations being skewed by a small number of outliers. Larger sample sizes from the 2021 investigation may provide a more accurate representation of concentrations across the neighbourhood as a whole.

- Sample depth. The Manitoba Sustainable Development (2019) and University of Manitoba (2017) investigation collected samples from depths of 0 to 7.5 cm. The Manitoba Conservation (2010) investigation collected a mixture of sod (surface) soils, and soils from depths of 0 to 2.5 cm or 0 to 5 cm. The 2021 soil investigation, in contrast, focused only on samples collected from 0 to 2.5 cm depth, as these soils are what children would most likely be exposed to.

Table 3 Comparison of Soil Lead Concentration Data from Previous Investigations for 10 Neighbourhoods of Concern (Intrinsik, 2019) with the 2021 Soil Investigation Data									
	<i>Manitoba Conservation 2010; University of Manitoba 2017 (mg/kg)</i>			<i>Manitoba Sustainable Development (2019), University of Manitoba (2017) (mg/kg)</i>			<i>2021 Soil Investigation (mg/kg)</i>		
Neighbourhood	# Samples	Average	95% UCLM	# Samples	Average	95% UCLM	# Samples	Average	95% UCLM
Centennial	14	110	155	4	43.0	61.3	87	75	100
Daniel McIntyre	50	134	172	5	65.0	109	49	69	89
Glenelm & Chalmers	45	71.6	101	19	61.0	77.3	121 ⁽¹⁾	47 ⁽¹⁾	54 ⁽¹⁾
North Point Douglas	33	473	647	27	195	279	70	64	125
River-Osborne	10	60.4	120	1	14.6	NC	55	48	60
Sargent Park	13	93.8	242	5	139	1,040	59	62	73
St. Boniface ⁽²⁾	197	87.8	94.0	177	88.6	92.9	NC ⁽²⁾	NC ⁽²⁾	NC ⁽²⁾
Weston	81	224	283	35	174	203	61	130	120
Wolseley & Minto	48	74.4	111	21	38.5	46.4	123 ⁽³⁾	54 ⁽³⁾	61 ⁽³⁾

NC Not calculated

(1) Data are combined for the neighbourhoods of Glenelm and Chalmers from 2021 investigation for comparison with previous data.

(2) Only a general sampling area is provided for U of M (2017) data; exactly locations or neighbourhood(s) that were sampled are not provided. For the 2021 soil investigation, samples were collected from Central St. Boniface and St. Boniface Industrial Park, as well as from other neighbourhoods in the St. Boniface Community Health Area.

(4) Data are combined for the neighbourhoods of Wolseley and Minto from 2021 investigation for comparison with previous data.

Note: Sample depths: 0 to 2.5 cm or 0 – 5 cm (MC, 2010), 0 to 7.5 cm (MSD 2019 and U of M 2017), 0 to 2.5 cm (Parsons, 2021 soil investigation).

8.1.2 POTENTIAL SOURCES OF LEAD CONTAMINATION IN WINNIPEG

The study by Intrinsik (2019) included an evaluation of potential emission sources that may have contributed to elevated soil lead concentrations in Winnipeg. Several potential point sources (many of which are no longer active) were identified. Figures from Intrinsik (2019) have been duplicated as Drawing No. 3.1 and 3.2 to provide additional context for the 2021 soil investigation results. A summary of potential sources identified is as follows:

- Three secondary smelters previously operated in the northwest quadrant of Winnipeg;
- Several facilities reported lead or tetraethyl lead emissions to the National Pollutant Release Inventory (NPRI) between 1994 to 2017;
- A number of known scrap metal yard/lead acid battery waste transfer or manufacturing facilities which may have the potential to affect soil quality in the surrounding areas.

- Historic vehicle-related emissions are also suspected of contributing to lead concentrations in soil in throughout Winnipeg, particularly for areas in proximity to major roadways.
- Aviation fuels for piston-engine aircraft contain lead, and the Winnipeg airport was included as a potential source of emissions.

It is likely that numerous additional sources of lead exist and were not identified, particularly those related to legacy contamination.

8.2 COMMUNITY FEATURES ANALYSIS

As summarized in Section 8.1, eight neighbourhoods were identified as potentially requiring further consideration based on the 2021 analytical results. It is noted that a limited number of samples were collected from several of these neighbourhoods which can result in one or two outliers skewing the results of statistical tests. Consideration must be given to whether the sampling data is reflective of conditions across the neighbourhood as a whole, and, of soil lead concentrations on residential properties where young children are likely to have the greatest opportunity for exposure. Additionally, several other neighbourhoods have a proportion of samples greater than 140 mg/kg that were not identified for further consideration, however areas with higher lead concentrations in soil than those sampled may exist.

Drawing No. 4.1 presents the Community Health Areas within the City of Winnipeg, as defined by the Winnipeg Regional Health Authority (WRHA, 2020). The areas of potential concern identified by Intrinsik (2019) are discussed below in the context of the 2021 soil investigation, with recent (2020) health statistics from the Winnipeg Regional Health Authority (WRHA) for each Community Area. The WRHA health statistics includes information such as socioeconomic status, social determinants of health, and general health status information for area residents relative to City of Winnipeg as a whole (e.g., maternal-child health, disease prevalence, mortality rates)

8.2.1 POINT DOUGLAS COMMUNITY HEALTH AREA

The Point Douglas Community Area was identified in Intrinsik (2019) as being of concern based on the sample data available at that time, consisting of a mixture of samples from parkland and residential boulevards. This Community Area encompasses 13 neighbourhoods as shown on Drawing No. 4.1 (WRHA, 2020); all 13 were specified by MECP for sampling during the 2021 investigation. The Dufferin Industrial neighbourhood was specified for sampling; however, no public parks or schools are located within this neighbourhood.

A total of 498 samples (including duplicates/re-runs) were analyzed in 2021 from neighbourhoods within the Point Douglas Community Area. Sixteen schools, five community centres, and several playgrounds and green spaces were included in this sampling. The 2021 soil investigation included sites in neighbourhoods not included in previous investigations (MC 2010,

MSD 2019, U of M 2017) including William Whyte, Burrows-Central, Inkster-Faraday, Luxton, Mynarski, Robertson, St. Johns, and St. Johns Park. Several neighbourhoods that were sampled previously were also sampled in 2021, with additional sampling sites included.

As summarized in Table 2 and in Section 8.1, the analytical data collected in 2021 indicates that several neighbourhoods within the Point Douglas Community Area contained sites with exceedances of the criteria, including:

- Dufferin (5.9% of samples above 140 mg/kg and 3.9% above 210 mg/kg),
- Inkster-Faraday (6.8% of samples above 140 mg/kg and 2.3% above 210 mg/kg),
- Lord Selkirk (6.3% of samples above 140 mg/kg and 2.1% above 210 mg/kg),
- Luxton (9.1% of samples above 140 mg/kg and 4.5% above 210 mg/kg),
- North Point Douglas (8.6% of samples above 140 mg/kg and 4.3% above 210 mg/kg),
- South Point Douglas (33% of samples above 140 mg/kg and 22% above 210 mg/kg),
- St. John's (1.6% of samples above 140 mg/kg and none above 210 mg/kg),
- St John's Park (5.3% of samples above 140 mg/kg and 5.3% above 210 mg/kg)

A summary of the soil analytical results for the Point Douglas Community Area, compared to the CCME and Intrinsik (2019) guidelines, is shown on Drawing No. 4.2. Overall, the information for this area suggests that a number of contamination hotspots are present within this community. Generally, the sites with exceedances are located in the southern and eastern portions of the Point Douglas Community Area.

Intrinsik (2019) noted that this area was likely influenced by historical industrial emissions, automobile-related lead emissions, and the use of lead-based paint on structures. The Point Douglas Community Area is recognized as being one of the oldest areas of Winnipeg and is transected by the rail line and two major roadways (Main Street and the Disraeli Freeway). The neighbourhoods in these areas are a mix of residential and various industrial/commercial activities along the major road arteries. Aerial imagery reveals a band of industrial/commercial operations between Sutherland Dr. and the railyard. The Point Douglas Community Area includes a number of major roadways, as shown on Drawing No. 3.2; the Manitoba Conservation (2010) report noted that soil lead concentrations in this area were likely influenced by vehicular emissions, as well as suspected emissions from nearby scrap yards. The potential point emission sources summarized on Drawing No. 3.1 includes a former smelter to the west/south of the Point Douglas Community Area (across the rail yard and tracks), as well as several scrap metal yards/lead acid battery waste transfer sites or other manufacturing facilities (Intrinsik 2019).

It is important to note that due to the focused nature of the sampling on only select public lands, the data at present do not provide a clear overall delineation of lead contamination within the Point Douglas Community Area or the neighbourhoods that make up this Community Area.

It was previously noted in the Intrinsik (2019) report that the Point Douglas Community area has a relatively high proportion of young children (0 to 9 years of age) compared to the City of

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Winnipeg as a whole, based on 2016 census data. A relatively large proportion of children are deemed as not being ready for school compared to other Winnipeg neighbourhoods (WRHA 2020a). The Point Douglas Community area is considered to be of lower socioeconomic status with a lower employment rate, food insecurity, housing challenges, poor access to health, mental health care and social services, poorer health status indicators (including disease prevalence, low birth weights, mortality rates, life expectancy) (WRHA 2020a). The area also has a higher proportion of visible minorities, recent immigrants, and Indigenous individuals relative to other areas of Winnipeg. These factors taken together may result in children residing within neighbourhoods in the Point Douglas Community Area as being of increased vulnerability to the effects of lead, as noted in Intrinsik (2019). Several of the sample sites had play structures, while others represent green spaces or playing fields in school yards or parks. It must be assumed that children of all ages could be present in the parks and schools, but those with attractions (such as playgrounds, etc.) are more likely to have children present on a regular basis. These neighbourhoods were also noted as having increased, non-soil related exposures to lead via older, lead-containing drinking water infrastructure, and older housing that may have lead-paint related impacts inside and outside (Intrinsik 2019).

8.2.2 DOWNTOWN COMMUNITY HEALTH AREA

The Intrinsik (2019) report identified the Downtown Community Area as being an area that includes neighbourhoods of potential concern regarding lead exposure. This Community Area encompasses 24 neighbourhoods as shown on Drawing No. 4.1 (WRHA, 2020), of which five were specified by MECP for sampling during the 2021 investigation.

A total of 334 samples (including duplicates) were collected in 2021 from the neighbourhoods of Centennial, Daniel McIntyre, Minto, Sargent Park, and Wolseley, within the Downtown Community Area. These samples were collected from public lands, including 12 schools, four community centres, and a number of playgrounds, athletic grounds and green spaces. Several neighbourhoods that were sampled previously were also included in the 2021 investigation, with additional sampling sites included.

As summarized in Table 2 and in Section 8.1, the 2021 analytical data indicates that the five neighbourhoods sampled in 2021 within the Downtown Community Health Area contained sites with exceedances of the criteria, including:

- Centennial (17% of samples above 140 mg/kg and 6.9% above 210 mg/kg),
- Daniel McIntyre (14% of samples above 140 mg/kg and 8.2% above 210 mg/kg),
- Minto (8.3% of samples above 140 mg/kg and none above 210 mg/kg),
- Sargent Park (6.8% of samples above 140 mg/kg and none above 210 mg/kg), and,
- Wolseley (2.7% of samples above 140 mg/kg and 1.3% above 210 mg/kg).

A summary of the soil analytical results for the Downtown Community Area, compared to the CCME and Intrinsik (2019) criteria, is shown on Drawing No. 4.3. As shown on Drawing No. 4.3,

multiple sites contained elevated concentrations of lead in the neighbourhoods of Centennial and Daniel McIntyre.

The Downtown Community Area includes a dense network of major roadways and two non-smelter emission sources within its boundaries, as identified on Drawing No. 3.1. Additionally, one former smelter and several non-smelter sources are also located west of the Downtown Community Area. Several of the downtown neighbourhoods are in close proximity to the railway corridor and rail yards.

The Intrinsik (2019) analysis indicated that based on Winnipeg Regional Health Authority data, residents within the Downtown Community Health Area are affected by a number of social and health issues. An updated profile for this area was released in 2020. Based on the more recent data from WRHA (2020b), the Downtown Community Area includes greater proportions of individuals who identify as Indigenous, new immigrants, or visible minorities. The WRHA (2020b) data are consistent with the information presented previously in Intrinsik (2019), where it is reported that the Downtown area is affected by low socioeconomic conditions, poverty, unemployment, food insecurity, poor access to education and quality childcare, affordable housing and supports for newcomers to the City. With respect to health status, the health statistics for the Downtown area were rated as being worse than for the City of Winnipeg as a whole (WRHA 2020b) for several health indicators (disease prevalence, mortality, life expectancy, maternal health, mortality etc.). As noted in Intrinsik (2019), children residing in Downtown neighbourhoods may be at increased risk of adverse effects in relation to lead exposures. Several of the sampled sites included play structures, while others represent green spaces or playing fields in school yards or parks. The sites with play structures are of particular interest, as young children are likely to frequent these locations. These neighbourhoods were also noted as having increased, non-soil related exposures to lead via older, lead-containing drinking water infrastructure, and older housing that may have lead-paint related impacts inside and outside (Intrinsik 2019).

8.2.3 ST. BONIFACE COMMUNITY HEALTH AREA

The St. Boniface Community Health Area includes a mixture of residential, commercial, and industrial properties. This Community Area is shown on Drawing No. 4.1 and encompasses 24 neighbourhoods (WRHA, 2020), of which 10 were specified by MECP for sampling during the 2021 investigation.

A total of 450 samples (including duplicates and re-tests) were collected in 2021 from neighbourhoods within the St. Boniface Community Health Area. The sample locations included nine schools, four community centres, and several public parks. The 2021 sample data in this area presented several exceedances of the criteria:

- Archwood (3.6% of samples above 140 mg/kg and 3.6% (1 sample) greater than 210 mg/kg),

- Central St. Boniface (27% of samples above 140 mg/kg and 10% (6 samples) greater than 210 mg/kg),
- Dufresne (11% of samples above 140 mg/kg and none greater than 210 mg/kg),
- Holden (15% of samples above 140 mg/kg and 15% (3 samples) greater than 210 mg/kg),
- Mission Industrial (25% above 140 mg/kg and 25% (7 samples) above 210 mg/kg),
- Norwood East (5.4% above 140 mg/kg and 1.8% (1 sample) above 210 mg/kg), and
- St. Boniface Industrial Park (2.7% above 140 mg/kg and none greater than 210 mg/kg).

No exceedances of 140 mg/kg or 210 mg/kg were reported for the Stock Yards, Tissot, or Windsor Park. A summary of the soil analytical results for the St. Boniface Community Area, compared to the CCME and Intrinsik (2019) criteria, is shown on Drawing No. 4.4.

The western, central and southern areas of the St. Boniface Community Area include residential areas and parks. There is a small residential area that is the neighbourhood of Holden, which is surrounded by industrial/commercial lands. The Mission Industrial area and the St. Boniface Industrial Area are primarily non-residential areas; although St. Boniface Industrial Area has a small residential area on the east end. Five of the potential lead emission sources presented on Drawing No. 3.1 are located within the St. Boniface Community Area. Several major roadways transect the Community Area, as well multiple rail corridors and rail spurs – all of which are potential lead emission sources (Intrinsik 2019).

A review of health statistics for the St. Boniface Community Area reveal that area residents are rating comparable or better than the City of Winnipeg with respect to the majority of health, social, and behavioural indicators, with the exception of the prevalence of asthma in children and osteoporosis (WRHA 2020c). With respect to health care access, in general, St. Boniface scored better or comparable to the City of Winnipeg. The WHRA (2020c) health profile for this Community Area does present a notable disparity in household incomes between the neighbourhoods, with the population with the lowest two income quintiles being located in Central St. Boniface, Norwood, Archwood, Niakwa Park, Maginot, and Windsor Park. No samples were collected for Niakwa Park or Maginot, but the other neighbourhoods were included in the 2021 investigation. The highest lead soil concentrations in the 2021 analytical data for these areas are from the Mission Industrial neighbourhood; which was noted in a review by Jacobs (2019) for the City of Winnipeg as being a heavy industry area historically. Multiple exceedances are noted in samples collected in the Central St. Boniface neighbourhood, with sporadic exceedances in Norwood East, Archwood, Dufresne, and Holden. As noted above, these particular neighbourhoods are reported to be of lower socioeconomic status relative to other areas within the St. Boniface Community Area, as well as the City of Winnipeg.

8.2.4 INKSTER COMMUNITY HEALTH AREA

The Intrinsik (2019) report identified the Inkster Community Area as an area of potential concern, particularly the neighbourhoods of Weston and Burrows-Keewatin. This Community Area encompasses 11 neighbourhoods (WRHA, 2020d) as shown on Drawing No. 4.1, of which five were specified by MECP for sampling during the 2021 investigation.

The 2021 soil investigation included the collection of 320 samples (including duplicates) from the Brooklands, Tyndall Park, Burrows-Keewatin, Shaughnessy Park, and Weston neighbourhoods. The sampling locations included eight schools, three community centres, and several parks/playgrounds. As summarized in Table 2 and Section 8.1, the 2021 sample data in this area noted the following exceedances of the criteria:

- Only 1 sample out of 49 from Brooklands presented an exceedance of the CCME guideline of 140 mg/kg.
- In Weston, 8.2% of the samples exceeded the guideline of 140 mg/kg with one sample exceeding 210 mg/kg.

No exceedances of the CCME guideline of 140 mg/kg or the upper bound of the range of 100-210 mg/kg were identified in the 2021 data set from the Burrows-Keewatin, Shaughnessy Park, or Tyndall Park neighbourhoods.

A summary of the soil analytical results for the Inkster Community Area, compared to the CCME and Intrinsik (2019) criteria, is shown on Drawing No. 4.5. All of the reported exceedances occur south of the rail corridor. The parks sampled are several blocks apart, and as a result, no clear spatial distribution patterns were identified in the data. However, it is important to note from the potential emission sources identified in Intrinsik (2019) and presented on Drawing No. 3.1, that two former secondary smelter operations are located in or near the southern portion of the Inkster Community Area (including one in Weston), in addition to other industrial sources such as scrap metal, and battery waste transfer stations. These neighbourhoods are also in close proximity to the rail corridor and railyard. A dense network of roadways is also located in this area, indicating that previous fuel-related emissions likely influenced soil lead concentrations in this area.

Health data from the WRHA (2020d) indicate that the Inkster Community Area has a higher proportion of individuals identifying as Indigenous, visible minorities, or recent immigrants relative to the Winnipeg health region as a whole. The eastern portion of the Inkster Community Area is noted by WRHA (2020d) to have a lower overall life expectancy and an increased mortality rate relative to the western portion of Inkster and Winnipeg as a whole. The lowest two income quartiles for Inkster Community Area are located within the eastern and south-central neighbourhoods of Inkster Industrial Park, Burrows-Keewatin, Shaughnessy Park, Brooklands, Weston, and Pacific Industrial (WRHA 2020d). Within the overall community area, there is a reported increased prevalence of cardiovascular and respiratory diseases and diabetes. An

increased number of young children are noted as being not ready for school learning relative to the City of Winnipeg (WRHA 2020d). Thus, the children living in this area are potentially more vulnerable to the adverse effects of lead exposure. Further, these neighbourhoods were also noted as having increased, non-soil related exposures to lead via older, lead-containing drinking water infrastructure, and older housing that may have lead-paint related impacts inside and outside (Intrinsik 2019).

8.2.5 AIRPORT

The Winnipeg Airport was not included in the previous soil investigations for lead, and sampling of a buffer around the airport was recommended in Intrinsik (2019). A total of 73 soil samples (including duplicates) were collected in the vicinity of the airport, and only one exceedance (a concentration of 190 mg/kg at St. James Memorial Sports Park) was identified. The potential for children to be exposed to lead in soil appears to be relatively low, given the overall low concentrations of lead in this area.

8.3 SITE SPECIFIC ANALYSIS

Soil sampling results from each individual site (park or school) were examined to determine if lead concentrations may further consideration, such as supplemental sampling, soil removal, or the implementation of risk management measures. Consistent with the assessment of soil lead results at a neighbourhood level, maximum lead concentrations for individual sites were compared to both the current CCME SQG of 140 mg/kg for lead in residential soils, and a concentration equal to upper limit of the range of potential SQGs of 100 - 210 mg/kg, as shown in Table 4. The number of samples with concentrations in excess of each of these criteria is also presented. Given the variation in the number of samples collected from some sites, particularly small sites with a low number of samples collected, examining the frequency of samples exceeding the criteria may not necessarily be an effective indicator for identifying those sites which may represent a concern. Where duplicates were collected or samples were re-tested, the higher of the concentrations reported for the original sample and duplicate or re-test were selected to represent the concentration for that sample.

Sites with a maximum concentration equal to or greater than 210 mg/kg (which represents the high end of the range of potential SQGs in Intrinsik (2019)), and/or those sites with an average concentration equal to or greater than the low end of this range (100 mg/kg) were retained for further consideration. The intention of this approach is to be protective of children and other site users that may spend prolonged periods of time in a given area of the site and may have frequent exposure to lead concentrations similar to the maximum, as well as those that move throughout the site randomly and be exposed to variable soil lead concentrations.

Table 4 Comparison of Maximum and Average Soil Lead Concentrations for Individual Sites to Health-Based Criteria (2021 Investigation Results)					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Airport					
St. James Memorial Sports Park	24	190	35	1 (4.2%)	0
Airport Buffer (Jameswood)					
Leicester Square Playground	12	77	25	0	0
Listowel Playground	13	28	22	0	0
Airport Buffer (King Edward)					
Collegiate Park	11	40	18	0	0
Legion Memorial Playground	10	43	22	0	0
Archwood					
Archwood C.C	6	44	28	0	0
Deniset Park	4	55	37	0	0
Happyland Park	18	250	64	1 (5.6%)	1 (5.6%)
Brooklands					
Bannatyne Playground	9	130	38	0	0
Blue Bird Park	9	100	38	0	0
Brooklands School (K-5)	12	52	31	0	0
Galmar Park	6	79	43	0	0
Lismore Park	6	160	89	1 (17%)	0
Pacific Dee Park	7	140	41	0	0
Burrows Central					
Boyd Park	10	59	18	0	0
King Edward School (N-6)	10	57	30	0	0
Margaret Scott Park	11	90	25	0	0
Burrows Keewatin					
Shaughnessy Park	20	51	25	0	0
Shaughnessy Park School (N-8)	10	59	30	0	0
Centennial					
Central C.C/Freighthouse	23	390	54	2 (8.7%)	2 (8.7%)
Dufferin Park	9	260	120	4 (44%)	1 (11%)
Dufferin School (N-6) – Adjacent City Property	3	48	43	0	0
Dufferin School (N-6)	10	300	130	3 (30%)	1 (10%)
Giizhigooweyaabikwe Park	10	240	120	4 (40%)	1 (10%)
Gord Dong Park	7	82	24	0	0
Pacific Avenue Tot Lot	8	120	45	0	0
Roosevelt Park	10	250	79	2 (20%)	1 (10%)
Ross Ellen Park	7	71	28	0	0
Central St. Boniface					
École Henri-Bergeron (4-8)	3	82	60	0	0
École Provencher (K-3)	5	95	45	0	0
La Verendrye Park	17	970	230	12 (71%)	6 (35%)
Marion School (K-8)	7	180	56	1 (14%)	0
Parc Club Optimist-Saint Boniface-Optimist Club Park	15	190	73	3 (20%)	0
Provencher Park / Notre Dame C.C	13	120	70	0	0
Chalmers					
Abdo and Samira El Tassi Park	9	110	49	0	0
Clara Hughes Recreation Park	10	270	70	1 (10%)	1 (10%)
East End Cultural & Leisure	10	77	30	0	0

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Table 4 Comparison of Maximum and Average Soil Lead Concentrations for Individual Sites to Health-Based Criteria (2021 Investigation Results)					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Centre					
Elmwood Winter Club	14	190	56	1 (7.1%)	0
Lord Selkirk School (N-6)	10	88	29	0	0
River Elm School (N-6)	11	85	42	0	0
Roy Davis Memorial Park	10	130	66	0	0
Union Tot Lot	9	51	36	0	0
Daniel McIntyre					
Home Playground	8	240	93	2 (25%)	1 (13%)
Jacob Penner Park	10	310	110	2 (20%)	1 (10%)
John M King School (N-6)	9	26	14	0	0
Lipton Park	4	230	100	1 (25%)	1 (25%)
Maryland Tot Lot	8	220	95	2 (25%)	1 (13%)
Wellington School (N-6)	10	59	20	0	0
Dufferin					
Immaculate Heart of Mary School (N-8)	5	290	110	2 (40%)	1 (20%)
Immaculate Heart Playground	10	86	37	0	0
Niji Mahkwa (N-8) and Children of Earth (9-12) Schools	11	97	29	0	0
Old Exhibition Athletic Grounds	20	220	40	1 (5%)	1 (5%)
Sargent Tommy Prince MM Veterans Park	5	77	50	0	0
Dufresne					
Kavanagh Park (south portion)	3	190	110	1 (33%)	0
Kavanagh Playground	13	34	19	0	0
Marion-Dufresne Riverbank	3	200	95	1 (33%)	0
East Elmwood					
Clyde Road Park	3	29	29	0	0
East Elmwood Park	11	48	20	0	0
Hap Hopkinson Memorial Park	13	69	26	0	0
Kent Road School (N-6)	19	210	36	1 (5.3%)	0
McCalman Parkette East	3	46	37	0	0
Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	10	340	120	2 (20%)	1 (10%)
Sir Sam Steele Park	10	54	32	0	0
St. Gerard School (N-8)	11	190	68	1 (9.1%)	0
Glenelm					
Elmwood Park	10	79	39	0	0
Glenelm School (N-6)	8	55	32	0	0
Hespeler Park	11	140	59	0	0
Talbot Tot Lot	9	93	55	0	0
Holden					
Lambert Park	20	990	150	3 (15%)	3 (15%)
Inkster-Faraday					
Arlington Tot Lot	8	180	110	2 (25%)	0
Faraday School (N-6)	10	79	34	0	0
Inkster School (N-6)	10	130	69	0	0
McKenzie Tot Lot	8	220	89	1 (13%)	1 (13%)
Parr Tot Lot	8	89	41	0	0
Lord Roberts					
Argue & Rosedale Athletic Field	5	240	78	1 (20%)	1 (20%)

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Table 4 Comparison of Maximum and Average Soil Lead Concentrations for Individual Sites to Health-Based Criteria (2021 Investigation Results)					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Brandon Avenue Tot Lot	9	130	53	0	0
Fort Rouge Leisure Centre	11	58	24	0	0
Lord Roberts C.C	12	57	24	0	0
Lord Roberts School (N-6)	11	42	20	0	0
McKittrick Park	15	62	29	0	0
Nassau Square Park	13	180	75	1 (7.7%)	0
Will and Jeanine Richard Memorial Park	13	120	50	0	0
Lord Selkirk					
David Livingstone School (N-8)	9	330	97	1 (11%)	1 (11%)
Dufferin Tot Lot-Kinsman	9	150	76	1 (11%)	0
North Winnipeg Action Centre	12	150	50	1 (8.3%)	0
Robinson Park	8	100	58	0	0
Turtle Island Community Centre	10	100	41	0	0
Luxton					
Dr. Louis Slotin Park	3	190	87	1 (33%)	0
Luxton C.C	9	2,000 ^b	260	1 (11%)	1 (11%)
Luxton School (N-6)	10	52	18	0	0
Minto					
Isaac Brock School (N-9)	10	150	82	2 (20%)	0
Minto Athletic Grounds	11	68	48	0	0
Minto Tot Lot	9	67	37	0	0
Sherburn Tot Lot	8	210	110	2 (25%)	0
Valour C.C-Isaac Brock Site	10	91	53	0	0
Mission Industrial					
Kavanagh Park	8	48	31	0	0
Mission Park	20	88,000	10,000	7 (35%)	7 (35%)
Mynarski					
Andrew Mynarski School (7-9)	8	54	41	0	0
North Point Douglas					
Aberdeen Adventure Playground	11	210	110	3 (27%)	0
Dr. Jim Shaver Memorial Playground	16	56	21	0	0
Joe Zuken Heritage Park	7	57	33	0	0
Michaëlle Jean Park / Norquay C.C	13	910	130	3 (23%)	3 (23%)
Norquay School (N-6)	10	100	56	0	0
Point Douglas Park	5	73	32	0	0
Syndicate Tot Lot	8	120	38	0	0
Norwood East					
Champlain C.C	16	48	19	0	0
Coronation Park	4	140	73	0	0
École Precieux-Sang (K-8)	10	55	19	0	0
Falcon Park	10	44	28	0	0
Heather Park	4	48	27	0	0
Traverse Park	12	850	130	3 (25%)	1 (8.3%)
River-Osborne					
Fort Rouge Park	15	160	53	1 (6.7%)	0
Fort Rouge School (N-6)	10	19	15	0	0
Gerald James Lynch Park	7	36	24	0	0
Mayfair Park East	16	260	78	3 (19%)	1 (6.3%)

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Table 4 Comparison of Maximum and Average Soil Lead Concentrations for Individual Sites to Health-Based Criteria (2021 Investigation Results)					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Scott-Stradbrook Park	7	83	43	0	0
Riverview					
Arnold Avenue Park	10	230	57	1 (10%)	1 (10%)
Churchill Drive Community Gardens	11	460	61	1 (9.1%)	1 (9.1%)
Churchill Drive Park	15	190	59	3 (20%)	0
Don Togo Park	3	120	50	0	0
Fisher Park	8	48	41	0	0
Riverview C.C	19	46	16	0	0
Riverview School (N-6)	10	160	49	1 (10%)	0
Robertson					
John Shaley Tot Lot / Sinclair Park C.C	15	130	35	0	0
John Yuzyk Park-Sinclair Park C.C-Robertson Site	9	110	43	0	0
Lansdowne School (N-8)	16	82	49	0	0
Polson Bay Park-4	3	51	38	0	0
Robertson School (N-6)	12	81	37	0	0
Sargent Park					
Clifton Bay Park-3	3	75	60	0	0
Clifton School (N-6)	12	210	110	2 (17%)	0
Principal Sparling School (N-6)	10	97	55	0	0
Sargent Park	10	190	49	1 (10%)	0
Sargent Park School (N-9)	6	150	59	1 (17%)	0
Sargent Park School (N-9) – Adjacent City Property	4	70	43	0	0
Valour C.C-Clifton Site	14	110	43	0	0
Shaughnessy Park					
Lord Nelson School (N-6)	11	80	34	0	0
Northwood C.C	14	77	40	0	0
Rick Hudson Park	10	68	35	0	0
South Point Douglas					
Fort Douglas Park	4	380	130	1 (25%)	1 (25%)
Grace Street Tot Lot	10	170	110	2 (20%)	0
William Whyte Park	4	290	220	3 (75%)	3 (75%)
St. Boniface Industrial Park					
Camiel Sys Park	11	12	11	0	0
Mazenod Park	5	17	15	0	0
McLeans Pumping Station	12	210	58	1 (8.3%)	0
Shady Shores Park	9	13	10	0	0
St. John's					
Andrews Tot Lot	10	120	46	0	0
Champlain School (N-6)	10	190	42	1 (10%)	0
Machray Park	12	76	41	0	0
Machray School (N-6)	10	47	31	0	0
Ralph Brown School (N-8)	10	58	23	0	0
Salter Tot Lot	10	96	58	0	0
St. John's Park					
St. John's Park	19	340	62	1 (5.3%)	1 (5.3%)
Stock Yards					
Archwood School (K-8)	13	54	22	0	0
Tissot					
Provencher-Tissot Riverbank	3	99	68	0	0

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Table 4 Comparison of Maximum and Average Soil Lead Concentrations for Individual Sites to Health-Based Criteria (2021 Investigation Results)					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Tyndall Park					
Albina Fuga Park	9	25	14	0	0
Egesz Park	9	25	14	0	0
Fairgrove Window Park	9	22	13	0	0
Finestone Park	9	23	17	0	0
Gainsborough Cove Tot Lot	10	68	37	0	0
Garden Grove Park	10	26	17	0	0
Garden Grove School (N-6)	9	130	31	0	0
Kinver Park	11	35	16	0	0
Prairie Rose School (N-6)	12	69	21	0	0
Stanley Knowles School (N-8)	4	15	13	0	0
Tyndall Park C.C	19	24	14	0	0
Tyndall Park School (N-6)	8	24	18	0	0
Walsall Park	11	120	65	0	0
Weston					
Campion Tot Lot	10	130	60	0	0
Cecil Rhodes School (N-9) and Adolescent Parent Centre (9-12)	10	160	88	1 (10%)	0
Pascoe Playground	10	170	73	1 (10%)	0
Stanley Knowles Park	10	160	76	1 (10%)	0
Weston Memorial C.C	10	3,400	400	1 (10%)	1 (10%)
Weston Park	11	200	61	1 (9.1%)	0
William Whyte					
Alfred Tot Lot	9	320	92	1 (11%)	1 (11%)
Pritchard Playground	10	230	81	3 (30%)	1 (10%)
Rejoice Fun Park	10	430	140	4 (40%)	2 (20%)
Strathcona School (N-6)	10	65	30	0	0
William Whyte School (N-8)	8	39	28	0	0
Windsor Park					
Agate Park	10	48	28	0	0
Applewood Park	9	48	32	0	0
Baudoux Place Park	8	43	31	0	0
Crestwood Park	9	36	23	0	0
Durham Park	12	30	20	0	0
École Howden (K-6)	12	46	25	0	0
École Lacerte (K-8)	6	10	9.1	0	0
Frontenac Park	12	24	16	0	0
Frontenac School (K-8)	10	29	14	0	0
General Vanier School (K-8)	9	49	33	0	0
Howden Park	9	50	26	0	0
Jubenville Park	9	28	19	0	0
Lomond Park	11	53	27	0	0
Vincent Massey Park	12	40	20	0	0
Westmount Park	13	46	21	0	0
Winakwa C.C	15	47	14	0	0
Wolseley					
Aubrey Playground	10	200	62	1 (10%)	0
Greenwood Park	5	50	34	0	0
Laura Secord School (N-6)	6	5.7	4	0	0
Mulvey School (N-6)	11	80	39	0	0

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Table 4 Comparison of Maximum and Average Soil Lead Concentrations for Individual Sites to Health-Based Criteria (2021 Investigation Results)					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Nick Ternette Memorial Park	5	85	62	0	0
Robert A. Steen Memorial C.C	4	24	17	0	0
Vimy Ridge Memorial Park	20	220	67	1 (5%)	1 (5%)
Westminster Tot Lot	6	130	54	0	0
Wolseley School (N-6)	8	76	36	0	0
Total^c	2013 ^c	3,400 ^c	53 ^c	118 (5.9%) ^c	48 (2.4%) ^c

Bold Concentrations exceed the CCME SQG of 140 mg/kg.

Grey Sites highlighted in grey had a maximum concentration equal to or above the high end of the range of 100-210 mg/kg and/or an average concentration equal to or above the low end of the range of 100-210 mg/kg.

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

^b Concentration in original sample was 2,000 mg/kg. Concentration in re-test was 120 mg/kg.

^c Excludes the original and four supplemental samples labelled as MI-MP-14 collected from Mission Park in which concentrations of lead (maximum of 88,000 mg/kg) significantly exceeded those found in other samples throughout the study area.

As shown in Table 4, of 2013 samples collected (which excludes one original sample and four supplemental samples collected from the same area in Mission Park, labelled as MI-MP-14), 118 (5.9%) contained concentrations of lead greater than the CCME SQG of 140 mg/kg, while 48 (2.4%) samples were greater than 210 mg/kg. The Mission Park samples were excluded from the analysis of total number of samples and the overall average shown in Table 4, since concentrations were significantly higher (maximum of 88,000 mg/kg) than those from the other samples and artificially skewed the overall results. The comparison presented in Table 4 resulted in 42 of 200 sites being retained for further consideration. The other analyzed sites were excluded from further analysis as not requiring further study based on the 2021 data.

Further examination of the soil lead results collected in 2021 for the 42 sites identified in Table 4 was completed, with consideration given to the nature of the property use, the presence of play structures or other features that may result in a higher frequency of use by young children, the size of the site and the sampling frequency, and the distribution of exceedances of health-based soil criteria. The soil concentrations across the neighbourhood as a whole was also considered in the assessment for individual sites. An overall recommendation was provided for each site, including a rating of low, medium, or high priority for further action. The sites were arranged by neighbourhood and overall community area as follows:

- Table 5: Point Douglas Community Area;
- Table 6: Downtown Community Area;
- Table 7: St. Boniface Community Area;
- Table 8: Inkster Community Area; and,
- Table 9: Other Areas.

Recommendations for further actions for individual sites may include supplemental sampling to further delineate the extent of exceedances, and/or localized soil removal. It may be acceptable to leave impacted soils in place provided that mitigative measures are applied, or confirmed to already exist, that serve to restrict exposure to impacted soils. The measures may include confirmation of the existence of consistent sod/vegetation cover to limit opportunity for direct exposure to underlying soils, the application of capping measures (clean soils or hard surfaces), or other appropriate options that limit direct exposure to impacted soils.

These recommendations are based exclusively on the results of the 2021 soil investigation and have not considered any historical data that may have been collected from these sites. It should be noted that observations of site characteristics and features were made using mainly aerial imagery obtained from the City of Winnipeg, dated from spring 2021 (City of Winnipeg, 2021d), and therefore may not be completely reflective of current conditions.

Table 5 Point Douglas Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Dufferin					
Immaculate Heart of Mary School (N-8)	5	290	110	2 (40%)	1 (20%)
<p>The maximum concentration of 290 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 2 of 5 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). The sampled area is a small area associated with the school which is anticipated to be used frequently by young children.</p> <p>Recommendation: High priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Supplemental sampling to further delineate exceedances, particularly in areas where exposed soil may exist.</p>					
Old Exhibition Athletic Grounds	20	220	40	1 (5%)	1 (5%)
<p>The maximum concentration of 220 mg/kg slightly exceeded the upper end of the SQG range of 100-210 mg/kg; however, only 1 of 20 samples exceeded the CCME SQG of 140 mg/kg and the average concentration was well below the low end of the range (100 mg/kg).</p> <p>Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
Inkster-Faraday					
Arlington Tot Lot	8	180	110	2 (25%)	0
<p>The maximum concentration of 180 mg/kg is below the upper end of the SQG range of 100-210 mg/kg, 2 of 8 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). The site is a large site that does not appear to currently include any play structures.</p> <p>Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
McKenzie Tot Lot	8	220	89	1 (13%)	1 (13%)
<p>The maximum concentration of 220 mg/kg slightly exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 8 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was below the low end of the range (100 mg/kg). There are no visible play structures currently in the area with the elevated concentration that would draw a higher frequency of use, and there was good spatial distribution of samples.</p> <p>Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					

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Table 5 Point Douglas Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Lord Selkirk					
David Livingstone School (N-8)	9	330	97	1 (11%)	1 (11%)
<p>The maximum concentration of 330 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 9 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was marginally below the low end of the range (100 mg/kg). Three (3) of the 9 samples contained concentrations above 100 mg/kg, each located along the eastern property line adjacent to the roadway, indicating relatively low but laterally extensive contamination in this area.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in areas with exceedances.</p>					
Luxton					
Luxton C.C	9	2,000	260	1 (11%)	1 (11%)
<p>The maximum concentration of 2,000 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 9 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg) (as a result of the single elevated concentration). It should be noted that the sample with the concentration of 2,000 mg/kg was re-run (using the originally submitted soil) and the concentration was reported to be 120 mg/kg. Contamination appears to be localized to the central portion of the site. There are no visible play structures in the area with the elevated concentration that would draw a higher frequency of use.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling to delineate the area with exceedances. Consider localized soil removal.</p>					
North Point Douglas					
Aberdeen Adventure Playground	11	210	110	3 (27%)	0
<p>The maximum concentration of 210 mg/kg was equal to the upper end of the SQG range of 100-210 mg/kg, 3 of 11 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). Six (6) of the 11 samples contained concentrations above 100 mg/kg indicating relatively low but laterally extensive contamination across the southern portion of the site. The areas with exceedances are near apparent play structures.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling to delineate the area with exceedances.</p>					
Michaëlle Jean Park / Norquay C.C	13	910	130	3 (23%)	3 (23%)
<p>The maximum concentration of 910 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 13 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was above the low end of the range (100 mg/kg). The site covers a large area with a long distance between sampling locations. There are no visible play structures in the area with the elevated concentrations that would draw a higher frequency of use.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling and potential soil removal in the area surrounding the sample with the 910 mg/kg result.</p>					
South Point Douglas					
Fort Douglas Park	4	380	130	1 (25%)	1 (25%)
<p>The maximum concentration of 380 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 4 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). The site is a very large and long strip of land along the river with a long distance between sampling locations, therefore, there is a higher degree of uncertainty regarding conditions across the site as a whole.</p>					

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Table 5 Point Douglas Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Supplemental sampling including the eastern area of the site where the maximum concentration was identified.					
Grace Street Tot Lot	10	170	110	2 (20%)	0
<p>The maximum concentration of 170 mg/kg was below the upper end of the SQG range of 100-210 mg/kg, 2 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was marginally above the low end of the range (100 mg/kg). The site is a small park that contains numerous play structures that would attract young children. Five (5) of the 10 samples contained concentrations above 100 mg/kg and were located throughout the site, indicating relatively low but laterally extensive contamination.</p> <p>Recommendation: Medium priority for further action given the frequency of concentrations above 100 mg/kg, the presence of play structures, and concerns regarding the neighbourhood as a whole. Consider supplemental sampling and consideration for soil removal.</p>					
William Whyte Park	4	290	220	3 (75%)	3 (75%)
<p>The maximum concentration of 290 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 4 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration significantly exceeded the low end of the range (100 mg/kg). The site is a small park located adjacent to a major roadway. All four of the samples contained concentrations above 100 mg/kg and were located throughout the site.</p> <p>Recommendation: High priority for further action given the frequency of concentrations above 100 mg/kg and concerns regarding the neighbourhood as a whole. Supplemental sampling and consideration for soil removal.</p>					
St. John's Park					
St. John's Park	19	340	62	1 (5.3%)	1 (5.3%)
<p>The maximum concentration of 340 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 19 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well below the low end of the range (100 mg/kg). The site is a large park consisting of a variety of features. Three (3) of the 19 samples contained concentrations above 100 mg/kg; however, none appear to be in areas with play structures.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling where the maximum concentration was identified.</p>					
William Whyte					
Alfred Tot Lot	9	320	92	1 (11%)	1 (11%)
<p>The maximum concentration of 320 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 9 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was slightly below the low end of the range (100 mg/kg). The site is a small park that appears to contain play structures that would attract young children. Three (3) of the 9 samples contained concentrations at or above 100 mg/kg.</p> <p>Recommendation: Medium priority for further action given the frequency of concentrations above 100 mg/kg and concerns regarding the neighbourhood as a whole. Confirm consistent sod cover over areas with exceedances of 140 mg/kg, particularly in the north-western area of the site.</p>					
Pritchard Playground	10	230	81	3 (30%)	1 (10%)
<p>The maximum concentration of 230 mg/kg slightly exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was below the low end of the range (100 mg/kg). All 3 samples that exceeded 140 mg/kg were located in the north-western corner of the site. There are play structures that would attract young children.</p> <p>Recommendation: Medium priority for further action given the concerns regarding the neighbourhood as a whole. Confirm consistent sod cover over areas with exceedances of 140 mg/kg, particularly in the north-western area of the site. Consider supplemental sampling and consideration for soil removal.</p>					

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Table 5 Point Douglas Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Rejoice Fun Park	10	430	140	4 (40%)	2 (20%)
<p>The maximum concentration of 430 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 4 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). The site is a small park that appears to contain play structures that would attract young children. Five (5) of the 10 samples contained concentrations above 100 mg/kg.</p> <p>Recommendation: High priority for further action given the frequency of concentrations above 100 mg/kg and concerns regarding the neighbourhood as a whole. Supplemental sampling and consideration for soil removal.</p>					

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

Table 6 Downtown Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Centennial					
Central C.C/Freighthouse	23	390	54	2 (8.7%)	2 (8.7%)
<p>The maximum concentration of 390 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg; however, only 2 of 23 samples exceeded the CCME SQG of 140 mg/kg and the average concentration was well below the low end of the range (100 mg/kg). There are no visible play structures in areas with elevated concentrations that would draw a higher frequency of use. Higher concentrations identified in western portion of the site.</p> <p>Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
Dufferin Park	9	260	120	4 (44%)	1 (11%)
<p>The maximum concentration of 260 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 4 of 9 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). There are no visible play structures in areas with elevated concentrations that would draw a higher frequency of use. Higher concentrations identified in the northern portion of the site adjacent to a higher traffic roadway.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in the northern portion of the site.</p>					
Dufferin School (N-6)	10	300	130	3 (30%)	1 (10%)
<p>The maximum concentration of 300 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). The two samples in closest proximity to the play structure in the southern portion of the site contained lead concentrations above 100 mg/kg (110 and 130 mg/kg).</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in the southern portion of the site adjacent to any play structures and in the north around the highest observed concentration.</p>					
Giizhigooweyaabikwe Park	10	240	120	4 (40%)	1 (10%)
<p>The maximum concentration of 240 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 4 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). One of the two samples in closest proximity to visible play structures in the southern portion of the site contained a lead</p>					

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Table 6 Downtown Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
concentration of 170 mg/kg. Higher concentrations were generally identified along the outer perimeter of the site adjacent to the larger roadways. Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling particularly near park play structures/features.					
Roosevelt Park	10	250	79	2 (20%)	1 (10%)
The maximum concentration of 250 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg; however, the average concentration was below the low end of the range (100 mg/kg) and there was good spatial distribution of samples. The sample in closest proximity to the visible play structure in the south-central portion of the site contained the highest lead concentration (250 mg/kg). Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling particularly near park play structures/features.					
Daniel McIntyre					
Home Playground	8	240	93	2 (25%)	1 (13%)
The maximum concentration of 240 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 2 of 8 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was only marginally below the low end of the range (100 mg/kg). Higher concentrations were identified in the southwestern portion of the site. Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in the southwestern portion of the site.					
Jacob Penner Park	10	310	110	2 (20%)	1 (10%)
The maximum concentration of 310 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 2 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). Samples with exceedances were located throughout the site. Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling to further delineate exceedances, particularly in areas where exposed soil may exist.					
Lipton Park	4	230	100	1 (25%)	1 (25%)
The maximum concentration of 230 mg/kg slightly exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 4 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was equal to the low end of the range (100 mg/kg). Only 4 samples were collected, however, the site is relatively small. The single exceedance was more than 3x the next highest concentration (71 mg/kg) and was located in the eastern portion of the site. The site appears to be in use as a community garden. Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in the eastern portion of the site.					
Maryland Tot Lot	8	220	95	2 (25%)	1 (13%)
The maximum concentration of 220 mg/kg slightly exceeded the upper end of the SQG range of 100-210 mg/kg, 2 of 8 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was only marginally below the low end of the range (100 mg/kg). The site is a small park that includes play structures which are anticipated to attract young children. Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in areas with exceedances.					

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

Table 7 St. Boniface Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Archwood					
Happyland Park	18	250	64	1 (5.6%)	1 (5.6%)
<p>The maximum concentration of 250 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg; however, only 1 of 18 samples exceeded the CCME SQG of 140 mg/kg and the average concentration was well below the low end of the range (100 mg/kg). There are no visible play structures in areas with elevated concentrations that would draw a higher frequency of use, and there was good spatial distribution of samples. Higher concentrations identified near the northeast corner may have been influenced by the adjacent major traffic intersection.</p> <p>Recommendation: <u>Low priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
Central St. Boniface					
La Verendrye Park	17	970	230	12 (71%)	6 (35%)
<p>The maximum concentration of 970 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 12 of 17 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well above the low end of the range (100 mg/kg). Exceedances were present across all areas of the site, with the highest concentrations located in the north-eastern portion.</p> <p>Recommendation: <u>High priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Supplemental sampling and potential soil removal in the north-eastern portion of the site. Additional sample collection in the south end of the park near the play structure.</p>					
Dufresne					
Kavanagh Park (south portion)	3	190	110	1 (33%)	0
<p>The maximum concentration of 190 mg/kg is below the upper end of the SQG range of 100-210 mg/kg, 1 of 3 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). The site is a large, partially forested park with no play structures, and there is a large spacing between sampling locations minimal sampling coverage. The exceedance does not appear to be located in an area with any play structures.</p> <p>Recommendation: <u>Low priority for further action.</u> Confirm consistent sod/vegetative cover over areas with exceedances of 140 mg/kg.</p>					
Holden					
Lambert Park	20	990	150	3 (15%)	3 (15%)
<p>The maximum concentration of 990 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 20 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was above the low end of the range (100 mg/kg). Exceedances were localized within the north-central portion of the site.</p> <p>Recommendation: <u>Medium priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling and potential soil removal in the north-central portion of the site.</p>					

Table 7 St. Boniface Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Mission Industrial					
Mission Park	20	88,000	10,000	7 (35%)	7 (35%)
<p>The maximum concentration of 88,000 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 7 of 20 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well above the low end of the range (100 mg/kg). Several of the exceedances were localized in an area in the eastern portion of the site adjacent to a major roadway, with others located more centrally.</p> <p>Recommendation: High priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Supplemental sampling and soil removal in the eastern portion of the site.</p>					
Norwood East					
Traverse Park	12	850	130	3 (25%)	1 (8.3%)
<p>The maximum concentration of 850 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 12 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was above the low end of the range (100 mg/kg). The site contains visible play structures that would draw a higher frequency of use. Exceedances were located along the northern portion of the site.</p> <p>Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling and potential soil removal in the area surrounding the sample with the 850 mg/kg result.</p>					
St. Boniface Industrial Park					
McLeans Pumping Station	12	210	58	1 (8.3%)	0
<p>The maximum concentration of 210 mg/kg was equal to the upper end of the SQG range of 100-210 mg/kg, 1 of 12 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well below the low end of the range (100 mg/kg). The site is a large park and appears to consist of multiple baseball diamonds and grassed areas. Concentrations were below 100 mg/kg in all samples with the exception of one sample located in the north-western corner of the site.</p> <p>Recommendation: Low priority for further action. Confirm consistent sod cover over the area with the exceedance in the north-western area.</p>					

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

Table 8 Inkster Community Area: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Minto					
Sherburn Tot Lot	8	210	110	2 (25%)	0
<p>The maximum concentration of 210 mg/kg was equal to the upper end of the SQG range of 100-210 mg/kg, 2 of 8 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). Four (4) of the 8 samples contained concentrations above 100 mg/kg indicating relatively low but laterally extensive contamination across the site. There are no current play structures in the area with the elevated concentration that would draw a higher frequency of use.</p>					

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Table 8 Inkster Community Area: Further Analysis of Sample Sites of Potential Concern					
Neighbourhood and Park/School	Total # of Samples	Maximum (mg/kg)	Average (mg/kg)	# Samples Above CCME SQG (140 mg/kg)	# Samples Above 210 mg/kg ^a
Recommendation: Medium priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in areas with exceedances.					
Sargent Park					
Clifton School (N-6)	12	210	110	2 (17%)	0
The maximum concentration of 210 mg/kg was equal to the upper end of the SQG range of 100-210 mg/kg, 2 of 12 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). Three (3) of the 12 samples contained concentrations above 100 mg/kg indicating relatively low and infrequent contamination across the site. The site is a very large and long strip of land and there is a long distance between sampling locations.					
Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Confirm there are no play structures in the areas with the elevated concentration that would draw a higher frequency of use.					
Weston					
Weston Memorial C.C	10	3,400	400	1 (10%)	1 (10%)
The maximum concentration of 3,400 mg/kg significantly exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration significantly exceeded the low end of the range (100 mg/kg). The site is a large park that appears to contain multiple baseball diamonds and large grassed areas. Four (4) of the 10 samples contained concentrations above 100 mg/kg and were located throughout much of the site, indicating relatively low but laterally extensive contamination, with the exception of the maximum concentration of 3,400 mg/kg located in the south-eastern portion of the site which significantly exceeded the range of criteria.					
Recommendation: High priority for further action in the area surrounding the concentration of 3,400 mg/kg. Supplemental sampling and consideration for soil removal or soil capping.					
Wolseley					
Vimy Ridge Memorial Park	20	220	67	1 (5%)	1 (5%)
The maximum concentration of 220 mg/kg slightly exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 20 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well below the low end of the range (100 mg/kg). The site is a large park consisting of a variety of features. Two (2) of the 20 samples contained concentrations above 100 mg/kg; with one sample located in close proximity to a swing set.					
Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Confirm there are no play structures in the area with the elevated concentration that would draw a higher frequency of use.					

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

Table 9 Other Community Areas: Further Analysis of Sample Sites of Potential Concern					
Neighbourhood and Park/School	Total # of Samples	Maximum (mg/kg)	Average (mg/kg)	# Samples Above CCME SQG (140 mg/kg)	# Samples Above 210 mg/kg ^a
Chalmers					
Clara Hughes Recreation Park	10	270	70	1 (10%)	1 (10%)
The maximum concentration of 270 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg; however, only 1 of 10 samples exceeded the CCME SQG of 140 mg/kg and the average concentration was well below the low end of the range (100 mg/kg). There are no visible play structures in areas with elevated concentrations that would draw a higher frequency of use.					
Recommendation: Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg.					
East Elmwood					

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Table 9 Other Community Areas: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
Kent Road School (N-6)	19	210	36	1 (5.3%)	0
<p>The maximum concentration of 210 mg/kg is equal to the upper end of the SQG range of 100-210 mg/kg; however, only 1 of 19 samples exceeded the CCME SQG of 140 mg/kg and the average concentration was well below the low end of the range (100 mg/kg). There are no visible play structures in the area with the elevated concentration that would draw a higher frequency of use, and there was good spatial distribution of samples.</p> <p>Recommendation: <u>Low priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	10	340	120	2 (20%)	1 (10%)
<p>The maximum concentration of 340 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 2 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration exceeded the low end of the range (100 mg/kg). Six (6) of the 10 samples contained concentrations above 100 mg/kg indicating relatively low but laterally extensive contamination, particularly along the eastern and south-eastern property lines.</p> <p>Recommendation: <u>Medium priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg. Consider supplemental sampling in areas with exceedances.</p>					
Lord Roberts					
Argue & Rosedale Athletic Field	5	240	78	1 (20%)	1 (20%)
<p>The maximum concentration of 240 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 5 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was below the low end of the range (100 mg/kg). There are no visible play structures in the area with the elevated concentration that would draw a higher frequency of use. The site is large and with a large spacing between sample locations.</p> <p>Recommendation: <u>Low priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
River-Osborne					
Mayfair Park East	16	260	78	3 (19%)	1 (6.3%)
<p>The maximum concentration of 260 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 3 of 16 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was below the low end of the range (100 mg/kg). The highest concentrations were primarily found in an area that does not contain play structures and is covered with grass and trees. There was a greater sampling frequency in the southern portion of the site where play structures are present, but concentrations were generally lower.</p> <p>Recommendation: <u>Low priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
Riverview					
Arnold Avenue Park	10	230	57	1 (10%)	1 (10%)
<p>The maximum concentration of 230 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 10 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well below the low end of the range (100 mg/kg). There are no visible play structures in the area with the elevated concentration that would draw a higher frequency of use. The site is large with a large spacing between sample locations.</p> <p>Recommendation: <u>Low priority for further action.</u> Confirm consistent sod cover over areas with exceedances of 140 mg/kg.</p>					
Churchill Drive Community Gardens	11	460	61	1 (9.1%)	1 (9.1%)

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Table 9 Other Community Areas: Further Analysis of Sample Sites of Potential Concern					
<i>Neighbourhood and Park/School</i>	<i>Total # of Samples</i>	<i>Maximum (mg/kg)</i>	<i>Average (mg/kg)</i>	<i># Samples Above CCME SQG (140 mg/kg)</i>	<i># Samples Above 210 mg/kg^a</i>
<p>The maximum concentration of 460 mg/kg exceeded the upper end of the SQG range of 100-210 mg/kg, 1 of 11 samples exceeded the CCME SQG of 140 mg/kg, and the average concentration was well below the low end of the range (100 mg/kg). The site is large with a large spacing between sample locations. There are no visible play structures in the area with the elevated concentration that would draw a higher frequency of use.</p> <p><u>Recommendation:</u> Low priority for further action. Confirm consistent sod cover over areas with exceedances of 140 mg/kg and confirm that there are no features that may attract young children in the south-eastern portion of the site where the maximum concentration was found. Further delineation in this area if there is the potential for frequent use by children.</p>					

^a Concentration represents the upper limit of the potential range of 100-210 mg/kg for an SQG based on a non-threshold toxicity endpoint for lead (Intrinsik, 2019).

Based on the analysis provided in Tables 5 to 9, six sites were identified as high priority for further action, 20 as medium priority, and 16 as low priority, as summarized in Table 10 and on Drawing No. 5.

Table 10 Summary of Recommendations for Further Action for Individual Sites (2021 Investigation Results)		
<i>Low Priority</i>	<i>Medium Priority</i>	<i>High Priority</i>
City of Winnipeg Parks: <ul style="list-style-type: none"> Happyland Park - Archwood Central C.C./Freighthouse - Centennial Clara Hughes Recreation Park - Chalmers Old Exhibition Athletic Grounds - Dufferin Kavanagh Park – Dufresne Arlington Tot Lot – Inkster-Faraday McKenzie Tot Lot – Inkster-Faraday Argue & Rosedale Athletic Field – Lord Roberts Mayfair Park East – River-Osborne Arnold Avenue Park - Riverview Churchill Drive Community Gardens - Riverview Fort Douglas Park – South Point Douglas McLeans Pumping Station – St. Boniface Industrial Park Vimy Ridge Memorial Park - Wolseley Schools: <ul style="list-style-type: none"> Kent Road School (N-6) – East Elmwood Clifton School (N-6) – Sargent Park 	City of Winnipeg Parks: <ul style="list-style-type: none"> Dufferin Park - Centennial Roosevelt Park - Centennial Giizhigooweyaabikwe Park - Centennial Home Playground – Daniel McIntyre Jacob Penner Park – Daniel McIntyre Lipton Park – Daniel McIntyre Maryland Tot Lot – Daniel McIntyre Lambert Park - Holden Luxton C.C - Luxton Aberdeen Adventure Playground – North Point Douglas Sherburn Tot Lot - Minto Michaëlle Jean Park / Norquay C.C – North Point Douglas Grace Street Tot Lot – South Point Douglas Traverse Park – Norwood East St. John’s Park – St. John’s Park Alfred Tot Lot – William Whyte Pritchard Playground – William Whyte Schools: <ul style="list-style-type: none"> Dufferin School (N-6) - Centennial Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)– East Elmwood David Livingstone School (N-8) – Lord Selkirk 	City of Winnipeg Parks: <ul style="list-style-type: none"> La Verendrye Park – Central St. Boniface Mission Park – Mission Industrial Weston Memorial C.C – Weston William Whyte Park – South Point Douglas Rejoice Fun Park – William Whyte Schools: <ul style="list-style-type: none"> Immaculate Heart of Mary School (N-8) – Dufferin
Total:		
Total number of Parks: 14 Total number of Schools: 2	Total number of Parks: 17 Total number of Schools: 3	Total number of Parks: 5 Total number of Schools: 1

9.0 SUMMARY AND CONCLUSIONS

Under the direction of Manitoba Environment, Climate and Parks (MECP), Parsons Inc., in collaboration with Intrinsik Corp., conducted a soil lead sampling and assessment program in October/November 2021 and provided a review and interpretation of the lead analytical results and recommendations for further action. The work was conducted as follow up to the assessment conducted in 2019 by Intrinsik (Intrinsik, 2019). The investigation was conducted on public areas

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(parks or schools) in 40 neighbourhoods specified by MECP based on the priority areas specified from the 2019 assessment, and were generally located in the central parts of the City of Winnipeg, as well as within 500 m of the airport. Samples were collected from 53 school properties and 147 parks within these neighborhoods, for a total of 200 sites. From those 200 sites, a total of 2018 distinct locations were sampled for lead and compared to guidelines. Soil samples were collected at a depth of 0 - 2.5 cm below grade. The sampling sites focused primarily on public areas where children under seven years old frequent as they are at the greatest risk from exposure.

The results of the soil investigation indicated that of 2013 samples collected (excludes samples noted below), 118 (5.9%) contained concentrations of lead greater than the Canadian Council of Ministers of the Environment (CCME) Soil Quality Guideline (SQG) of 140 mg/kg, while 48 (2.4%) were greater than 210 mg/kg. One sample location (comprised of five individual samples) from Mission Park was excluded from these totals since concentrations were significantly higher (maximum of 88,000 mg/kg) than those from the other samples and artificially skewed the overall results.

It is recommended that further action is taken for a number of individual sites (parks or schools) sampled in 2021, which had concentrations greater than the referenced guidelines. Six sites have been identified as high priority for further action. An additional 20 sites were identified as medium priority, and 16 sites were identified as low priority. These actions will be based on an evaluation of risk, and may include inspection to ensure sufficient sod/vegetation cover to restrict direct access to exposed soils, further sampling to delineate exceedances, the application of capping measures (soil or hard surfaces), localized soil removal and replacement programs, or other appropriate options that limit direct exposure to impacted soils.

Based primarily on the results of the 2021 soil investigation, soil lead concentrations for a number of neighbourhoods have been identified for further action. Given that this work was a focused sampling initiative on schools and parks, several neighbourhoods with fewer applicable sampling sites (parks or schools) had a lower number of samples collected, and therefore the overall results may be skewed by the occurrence of one or two outliers. Consideration must be given to whether the sampling data is reflective of conditions across the neighbourhood as a whole, and of soil lead concentrations on residential properties where young children are likely to have the greatest opportunity for exposure. Several other neighbourhoods were not specifically identified for further consideration as a result of lower overall soil lead concentrations; however, it should be recognized that areas with higher soil lead concentrations than those identified in the selected sampling locations may exist. Consistent with recommendations provided by Intrinsik (2019), the assessment of potential risks associated with soil lead concentrations indicates that further study may be warranted. The neighbourhoods identified for further consideration, based on an analysis of the 2021 analytical data exclusively, are Centennial, Central St. Boniface, Daniel McIntyre, Dufresne, Holden, South Point Douglas, Weston, and William Whyte. Other neighbourhoods sampled in 2021 may be identified for further analysis at a later date, given limitations of the 2021 data set.

It is recommended that further evaluation of the current and available historical data is conducted along with a data gap analysis to identify those additional areas (neighbourhoods) that may require supplemental soil sampling. Consideration should also be given to collecting soil samples from residential properties for those neighbourhoods where soil lead concentrations on public spaces have been identified for further consideration, or where the low number of parks or schools in the neighbourhood resulted in a limited number of samples being collected during the 2021 investigation.

Given that there are sufficient data to demonstrate that soil lead concentrations in certain neighbourhoods warrant further consideration, blood lead monitoring may be an effective approach for assessing risks and the potential need for further soil sampling and/or the implementation of risk management measures. The objective of blood lead monitoring is to measure actual levels of lead exposure, which will help determine if exposures experienced by young children represent a potential health concern.

This assessment and recommendations were based largely on a comparison of soil lead concentrations to both the current CCME SQG of 140 mg/kg for lead in residential/parkland soils, and a range of potential SQGs (100-210 mg/kg) derived to be reflective of the current state of the science on lead toxicity and the potential restricted access to soil during the extended winter months in Winnipeg (Intrinsik, 2019). Overall, these guidelines are intended to ensure that exposure to lead in soil will have negligible impacts on young children and do not represent concentrations at which unacceptable adverse effects are anticipated to occur.

10.0 LIMITATION OF LIABILITY, SCOPE OF REPORT AND THIRD-PARTY RELIANCE

10.1 INTRINSIK CORP.

Intrinsik Corp. (Intrinsik) provided interpretation of the analytical results and recommendations for further investigation. This information was provided to Parsons Inc. and the Manitoba Ministry of Environment, Climate and Parks (hereafter referred to as Parsons and MECP) solely for the purpose stated in the report. The information contained in this report was prepared and interpreted exclusively for Parsons/MECP and may not be used in any manner by any other party. Intrinsik does not accept any responsibility for the use of this report for any purpose other than as specifically intended by Parsons/MECP. Intrinsik does not have, and does not accept, any responsibility or duty of care whether based in negligence or otherwise, in relation to the use of this report in whole or in part by any third party. Any alternate use, including that by a third party, or any reliance on or decision made based on this report, are the sole responsibility of the alternative user or third party. Intrinsik does not accept responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

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Intrinsik has reserved all rights in this report, unless specifically agreed to otherwise in writing with Parsons/MECP.

10.2 PARSONS INC.

This report has been prepared and the work referred to in this report has been undertaken by Parsons Inc. (Parsons), for Manitoba Environment, Climate and Parks (MECP). It is intended for the sole and exclusive use of MECP, its affiliated companies and partners and their respective insurers, agents, employees and advisors (collectively, "MECP"). Any use, reliance on or decision made by any person other than MECP based on this report is the sole responsibility of such other person. MECP and Parsons, make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

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The investigations undertaken by Parsons, with respect to this report and any conclusions or recommendations made in this report reflect Parsons' judgment based on the Site conditions observed at the time of the Site inspection on the date(s) set out in this report and on information examined at the time of preparation of this report. This report has been prepared for specific application to this Site and it is based, in part, upon visual observation of the Site, subsurface investigation at discrete locations and depths, and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future Site conditions, portions of the Site which were unavailable for direct investigation, subsurface locations which were not investigated directly, or chemical parameters, materials or analysis which were not addressed. Substances other than those addressed by the investigation may exist in areas of the Site not investigated and concentrations of substances addressed which are different than those reported may exist in areas other than the locations from which samples were taken.

If Site conditions or applicable standards change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by MECP, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of Parsons. Nothing in this report is intended to constitute or provide a legal opinion.

We trust that this information is satisfactory for your present requirements. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Respectfully submitted,

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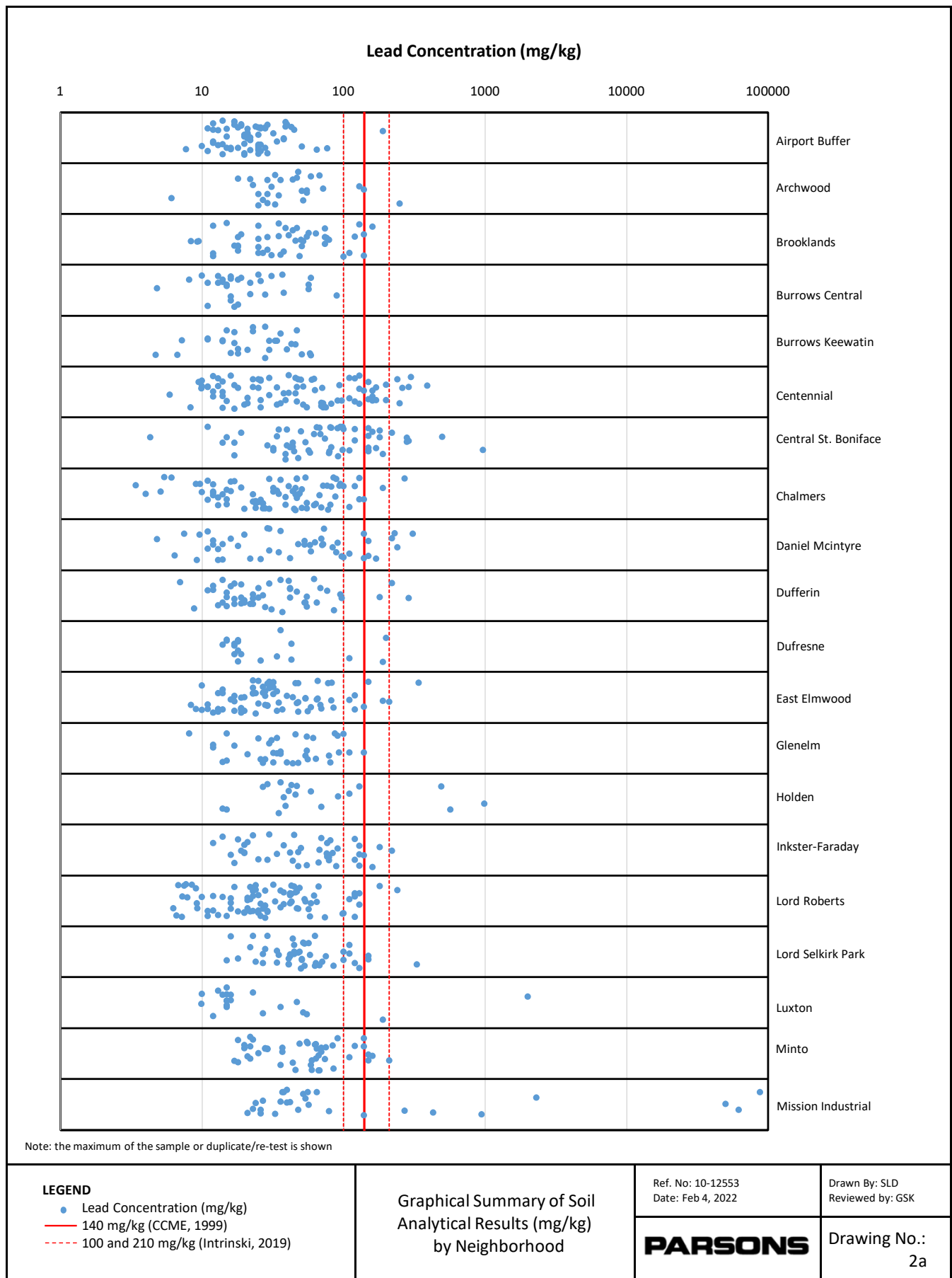
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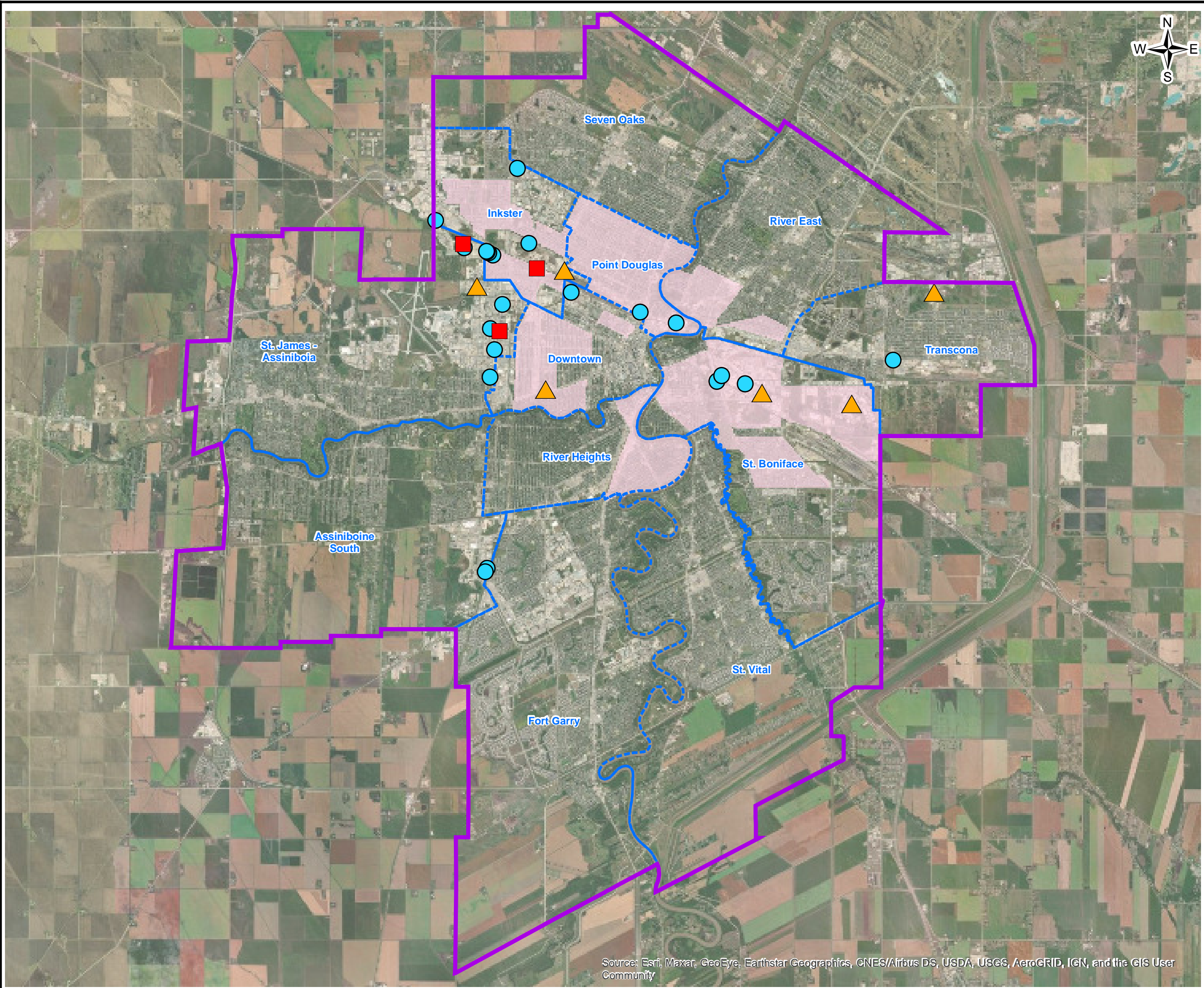
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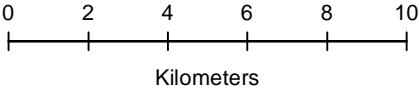
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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

- NPRI Facilities
- Historical Secondary Smelter
- Scrap Metal Yard/Lead Acid Battery Waste Transfer or Manufacturing Facilities
- Neighborhood Sampled (2021)
- Community Health Area
- City of Winnipeg Boundary



Source: Intrinsik (2019) Figures 2.1 "Location of Three Secondary Lead Smelter Sites and 3.2 "Point Sources of Lead Contamination in Winnipeg"

Potential Point Sources of Lead Contamination in Winnipeg

Winnipeg, MB



PARSONS

Drawn By: SLD

Reviewed By: GSK

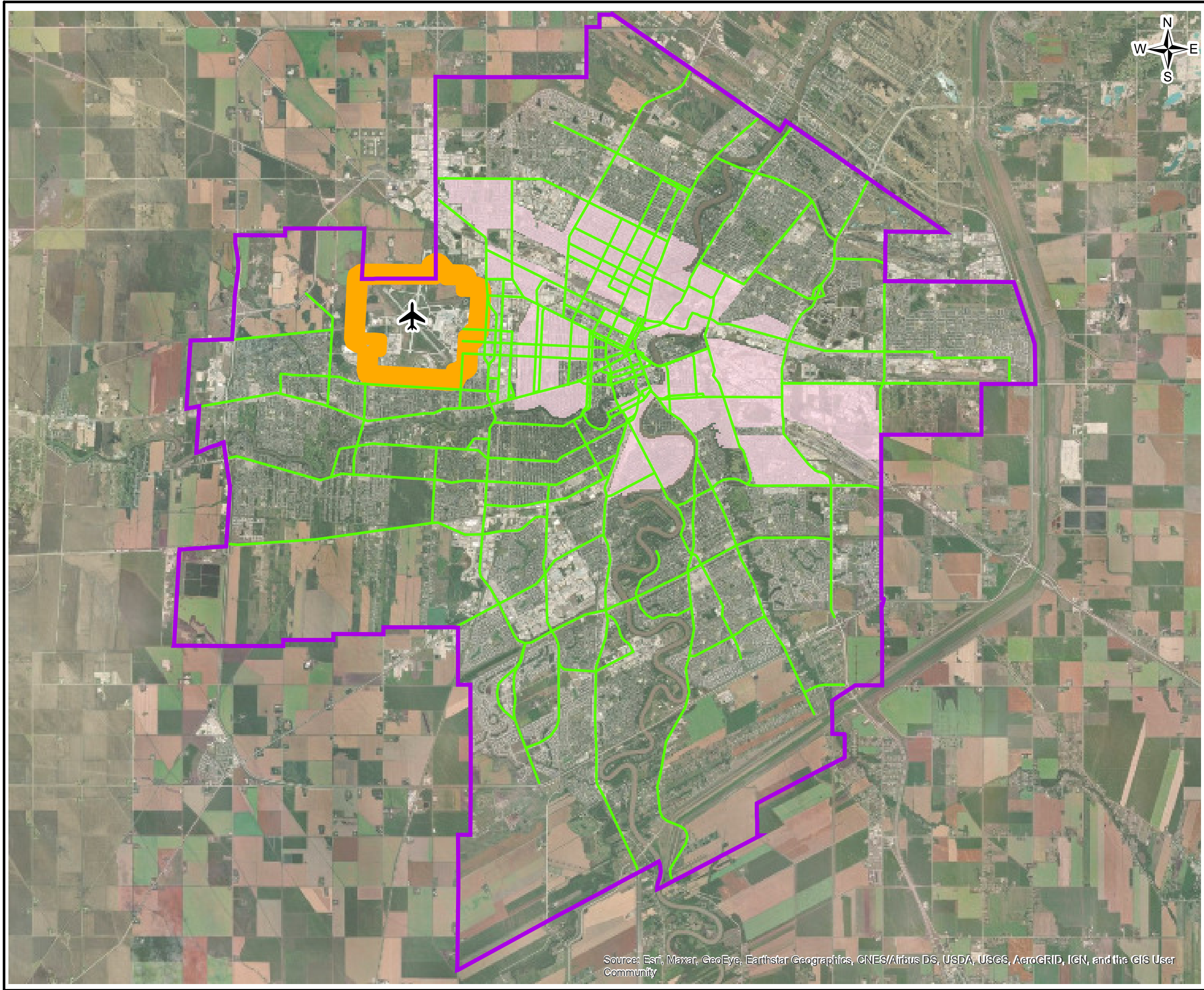
Ref: 10-12553

Date: 06-Feb-2022

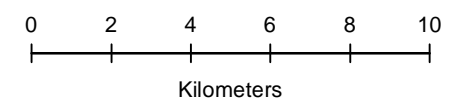
Drawing No.:

3.1

Document Path: C:\Z_Drive\10-12553\MXD\H_Intrinsic_PointSources.mxd




- LEGEND**
- Major Roadways
 - Airport
 - Airport Buffer Area (Parsons)
 - Neighborhood Sampled (2021)
 - City of Winnipeg Boundary



Source: Intrinsic (2019) Figure 3.3 "Sources of Leaded Gasoline Emissions Presented with the Neighbourhoods Included in Soil Investigation".

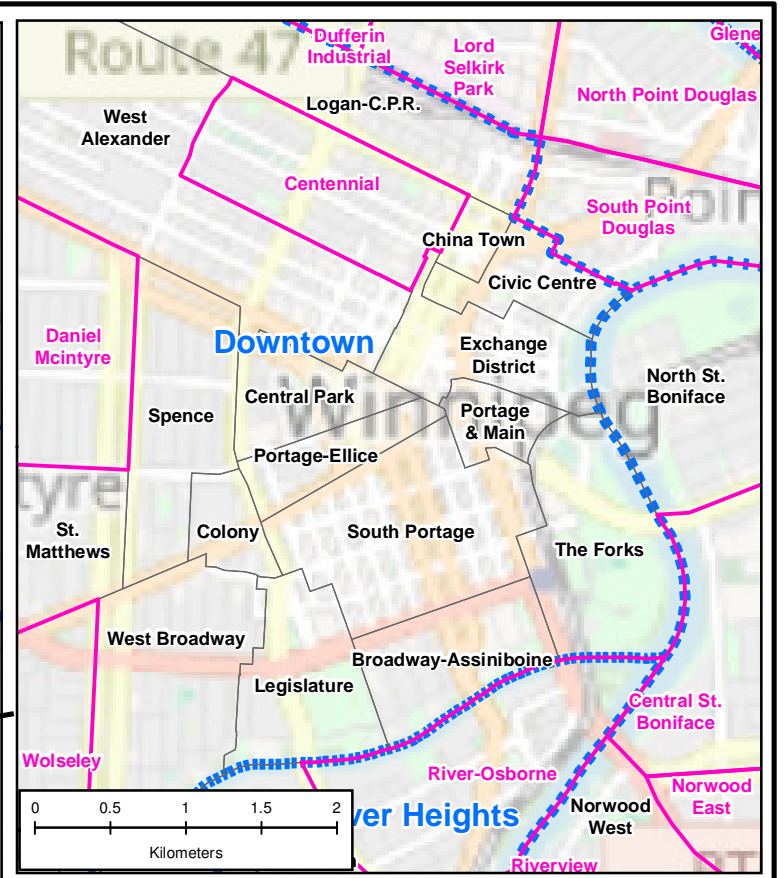
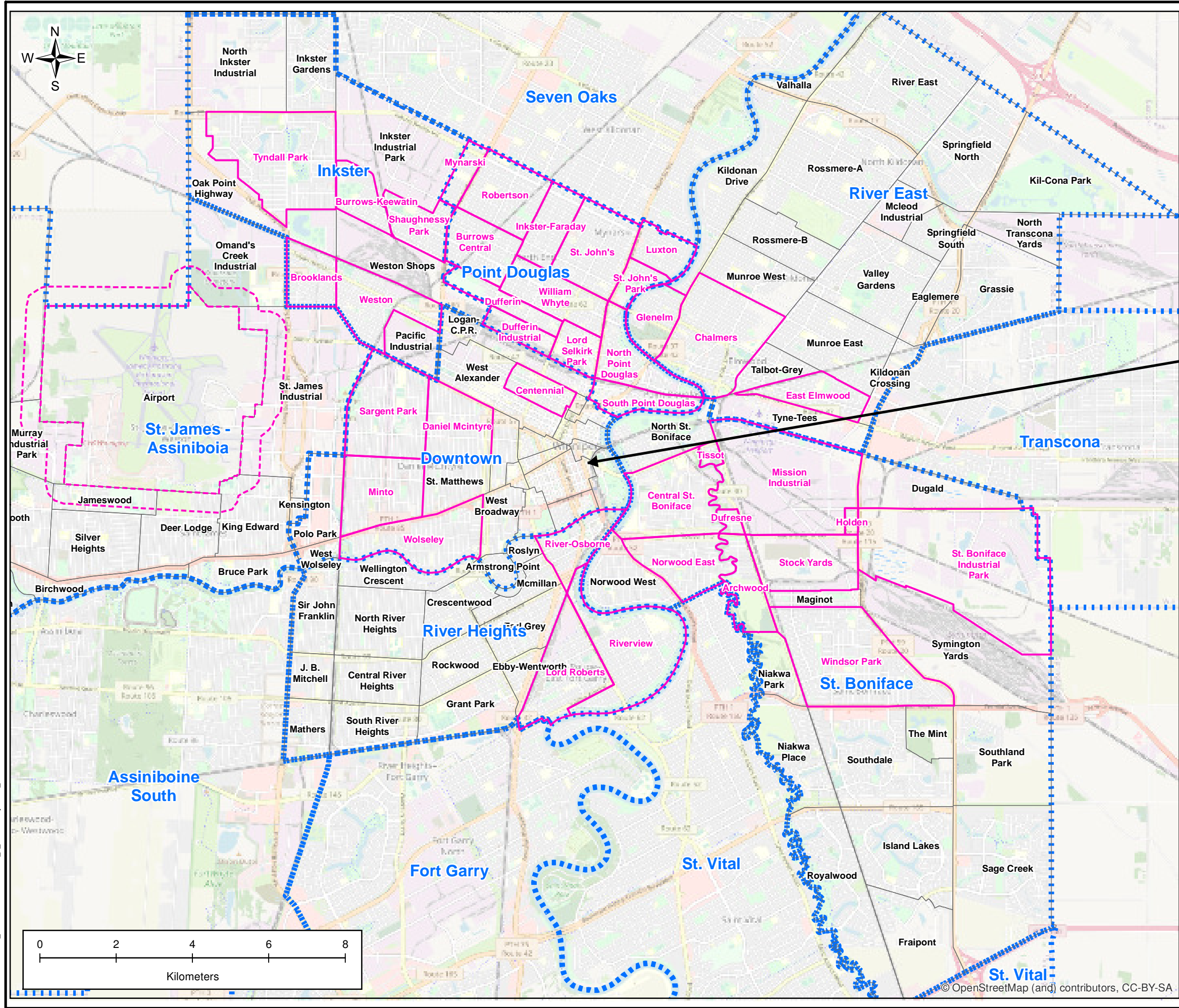
Sources of Emissions from Leaded Fuels

Winnipeg, MB

 PARSONS	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 06-Feb-2022
	Drawing No.:	3.2

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Document Path: C:\Z_Drive\10-12553 MXD\G_2_CommunityAreas_Overall.mxd

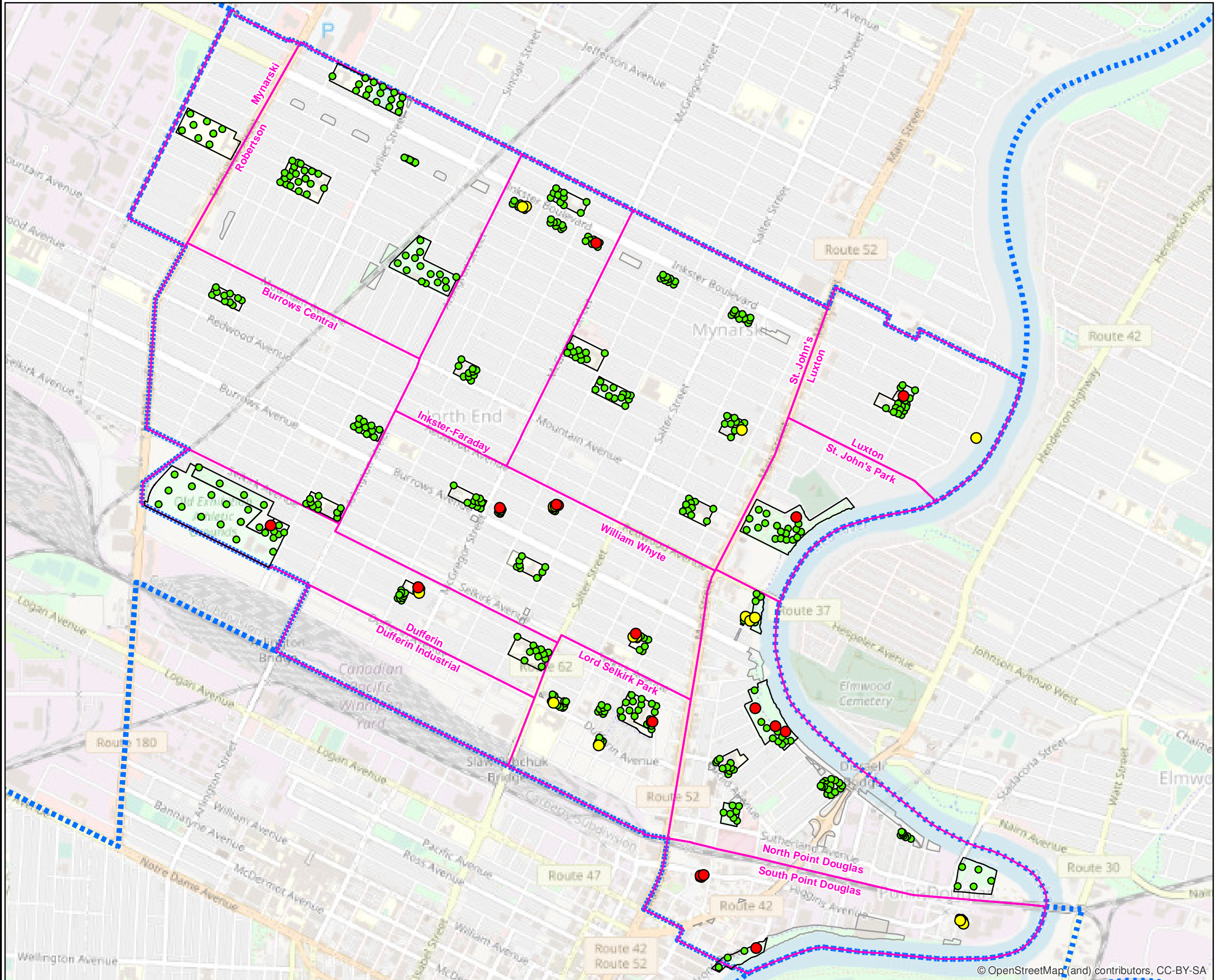


- LEGEND**
- Neighborhood Included in Study
 - Airport Buffer
 - Neighborhood
 - Community Health Area Boundary

Community Health Area Overview

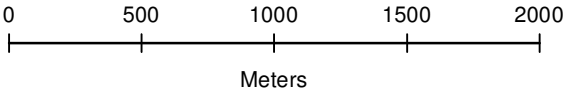
Winnipeg, MB

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 10-Feb-2022
<div>PARSONS</div>	Drawing No.: 4.1	



LEGEND

- Park or School Sampled
- Park or School Not Sampled
- Neighborhood Sampled
- Community Area Boundary
- Lead Concentration (mg/kg)**
 - <= 140 mg/kg (displays on bottom)
 - >140 to 210 mg/kg
 - >210 mg/kg (displays on top)

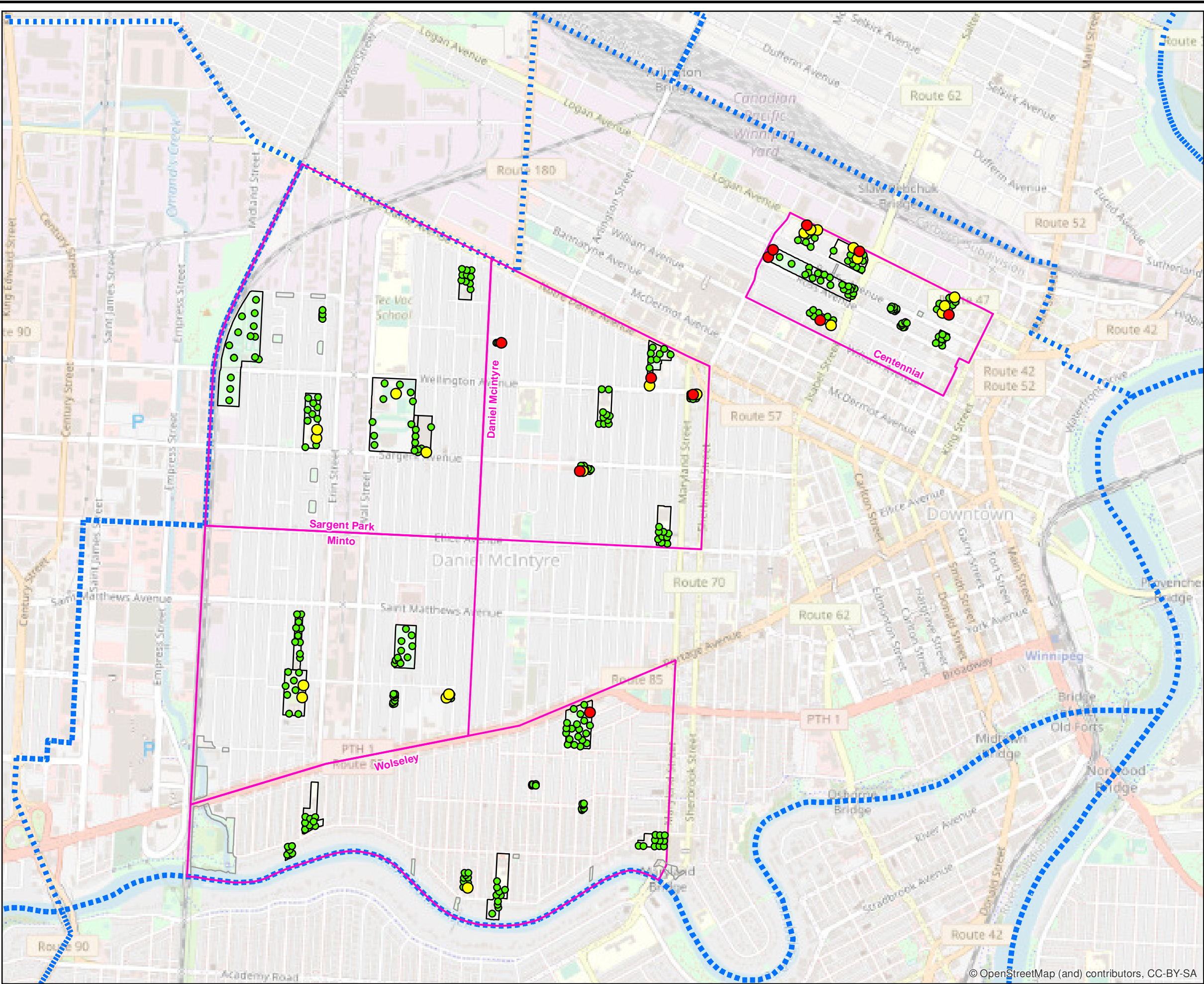


Notes:
- Display priority is set so that exceedances of >210 mg/kg overly those of 140-210 mg/kg, which overly those of <= 140 mg/kg. If sample locations are close, overlying dots will obscure those underneath.

Summary of Soil Lead Analytical Results
Point Douglas Community Area

Winnipeg, MB

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 06-Feb-2022
	Drawing No.: 4.2	

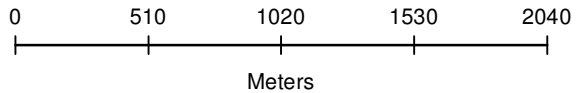


LEGEND

- Neighborhood Sampled
- Park or School Sampled
- Park or School Not Sampled
- Community Area Boundary

Lead Concentration (mg/kg)

- <= 140 mg/kg (displays on bottom)
- >140 to 210 mg/kg
- >210 mg/kg (displays on top)



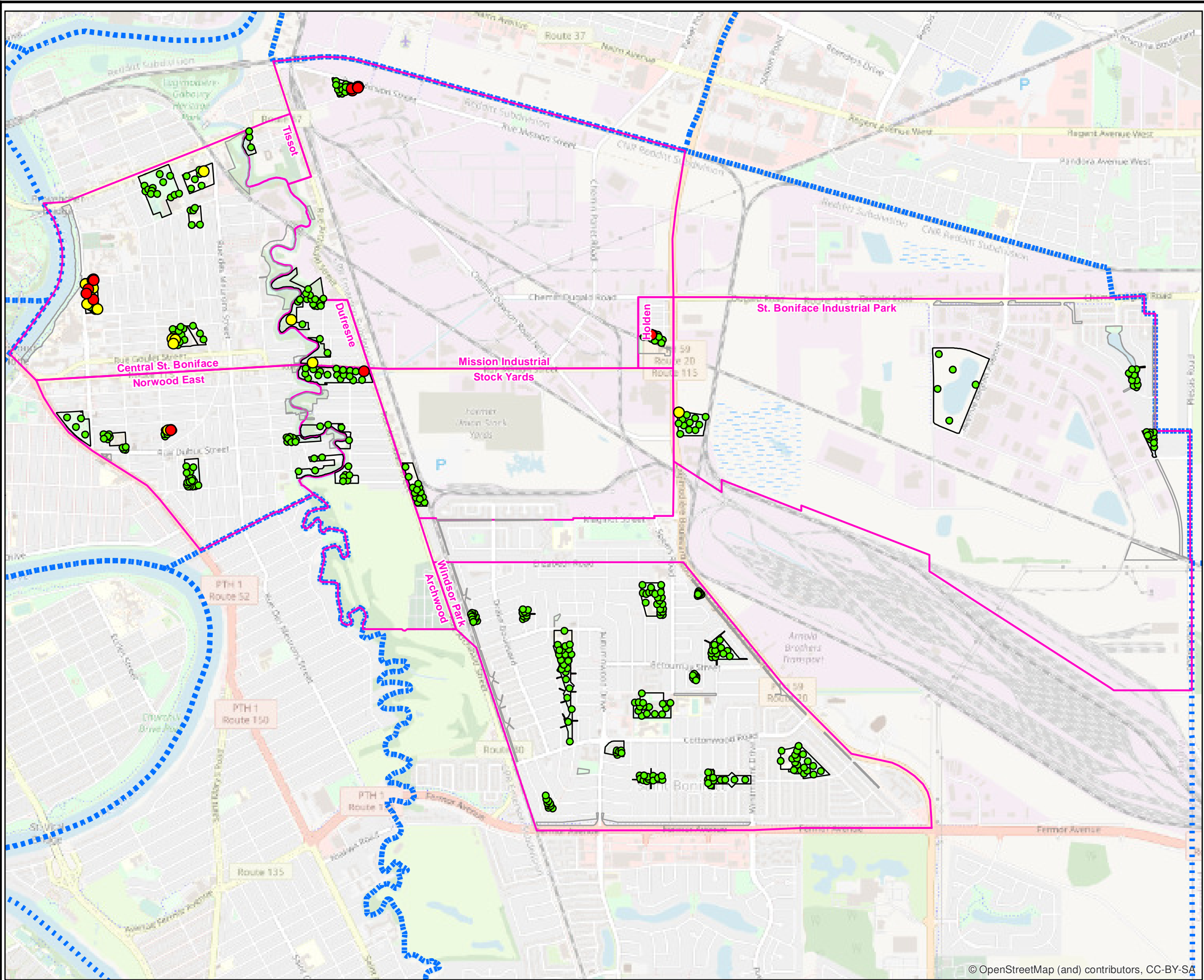
Notes:
- Display priority is set so that exceedances of >210 mg/kg overly those of 140-210 mg/kg, which overly those of <= 140 mg/kg. If sample locations are close, overlying dots will obscure those underneath.

Summary of Soil Lead Analytical Results
Downtown Community Area

Winnipeg, MB

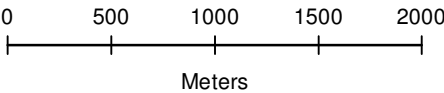
Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 06-Feb-2022
Drawing No.:	

PARSONS



LEGEND

- Park or School Sampled
- Park or School Not Sampled
- Neighborhood Sampled
- Community Area Boundary
- Lead Concentration (mg/kg)**
 - <= 140 mg/kg (displays on bottom)
 - >140 to 210 mg/kg
 - >210 mg/kg (displayed on top)



Notes:

- Display priority is set so that exceedances of >210 mg/kg overly those of 140-210 mg/kg, which overly those of <= 140 mg/kg. If sample locations are close, overlying dots will obscure those underneath.

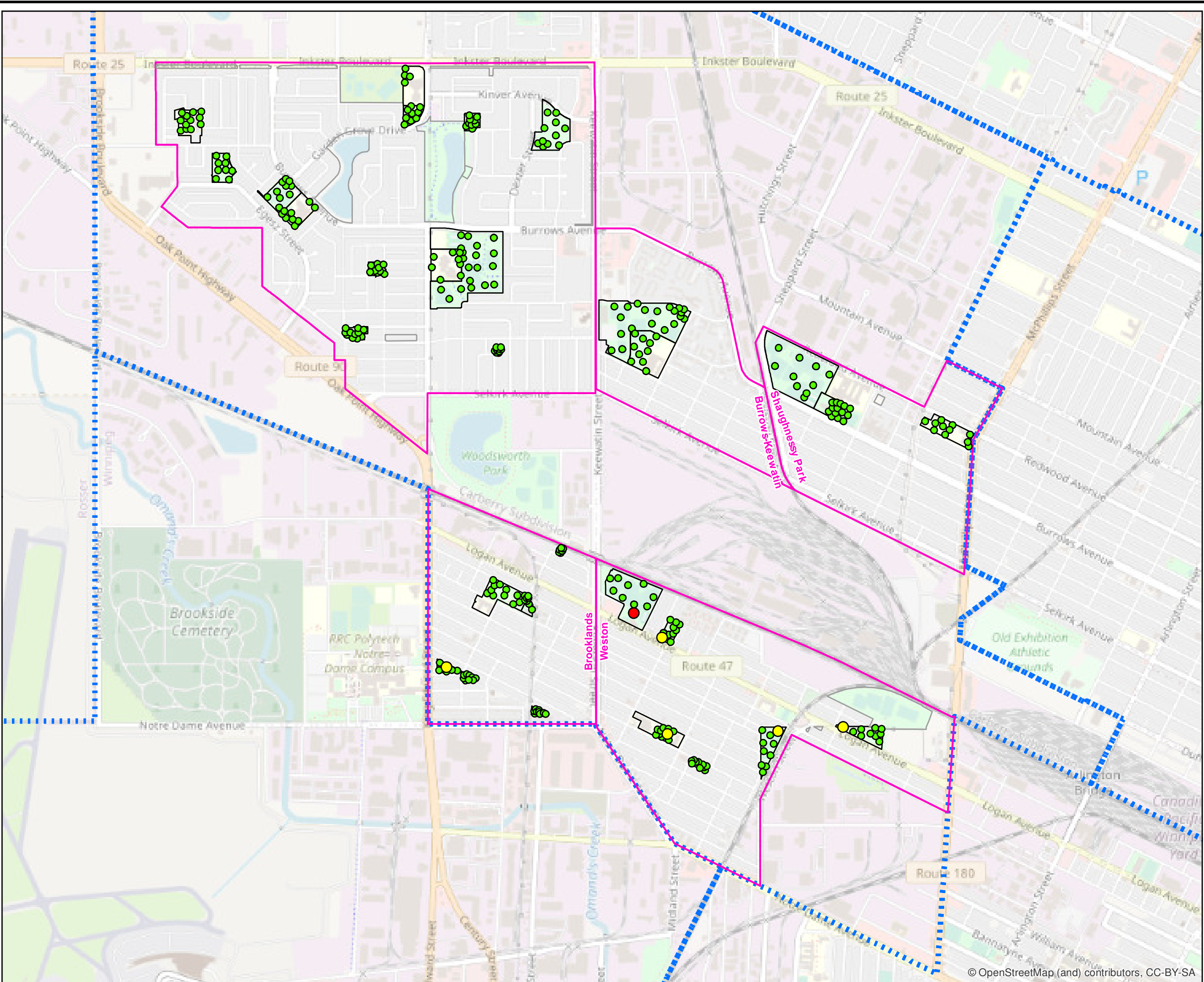
Summary of Soil Lead Analytical Results

St. Boniface Community Area

Winnipeg, MB

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 06-Feb-2022
Drawing No.:	

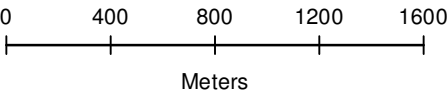
PARSONS



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LEGEND

- Park or School Sampled
- Park or School Not Sampled
- Neighborhood Sampled
- Community Area Boundary
- Lead Concentration (mg/kg)**
 - ≤ 140 mg/kg (displays on bottom)
 - >140 to 210 mg/kg
 - >210 mg/kg (displays on top)



Notes:

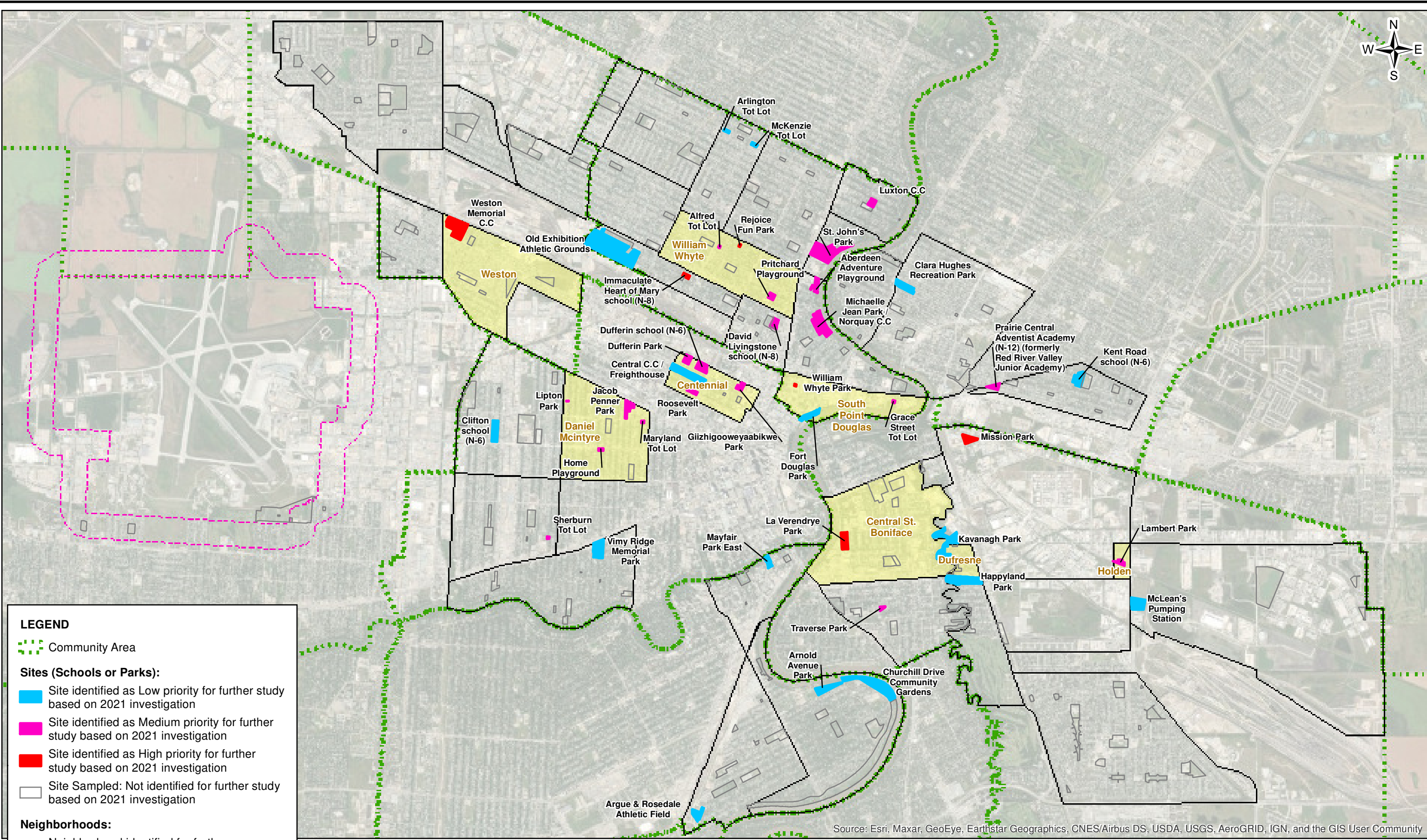
- Display priority is set so that exceedances of >210 mg/kg overly those of 140-210 mg/kg, which overly those of ≤ 140 mg/kg. If sample locations are close, overlying dots will obscure those underneath.

Summary of Soil Lead Analytical Results Inkster Community Area

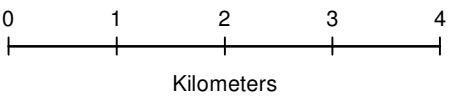
Winnipeg, MB

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 06-Feb-2022
PARSONS		Drawing No.: 4.5

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Notes:
- These recommendations are based exclusively on the results of the 2021 soil investigation and have not considered any historical data that may have been collected from these sites or neighborhoods.



Summary of Sites/Neighborhoods Identified for Further Consideration Based on 2021 Investigation

Winnipeg, MB

 PARSONS	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 11-Apr-2022
	Drawing No.: 5	

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 40 80 160
Meters

Soil Analytical Results – Lead (mg/kg)

St. James Memorial Sports Park

(Airport)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.1 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Leicester Square Playground

(Airport Buffer (Jameswood))

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

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6.1 (2)

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LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

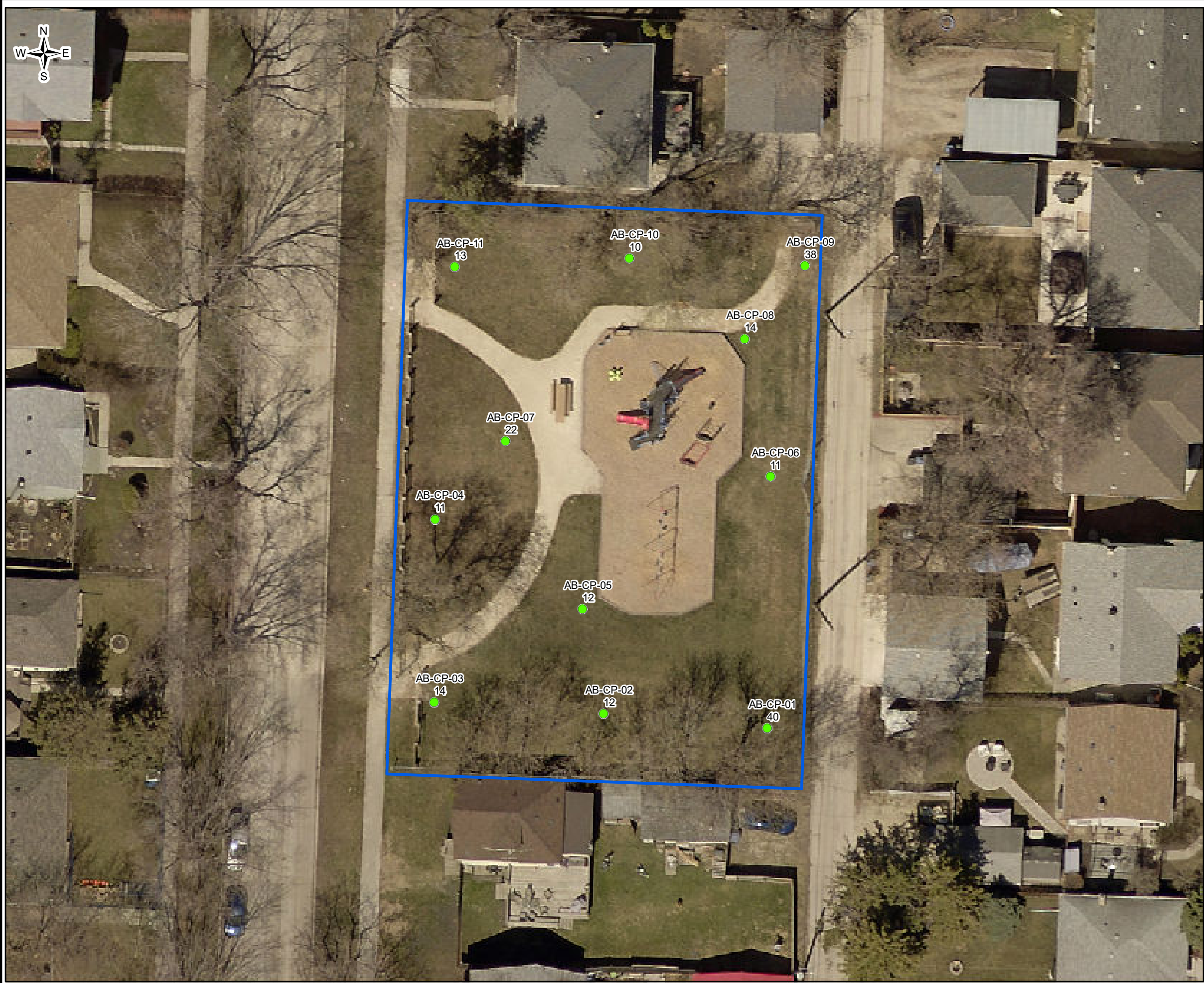
Listowel Playground

(Airport Buffer (Jameswood))

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.1 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Collegiate Park

(Airport Buffer (King Edward))

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

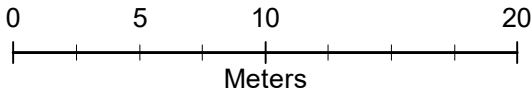
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LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Legion Memorial Playground
(Airport Buffer (King Edward))
Winnipeg, MB

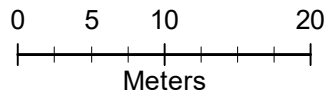
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.1 (5)

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LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

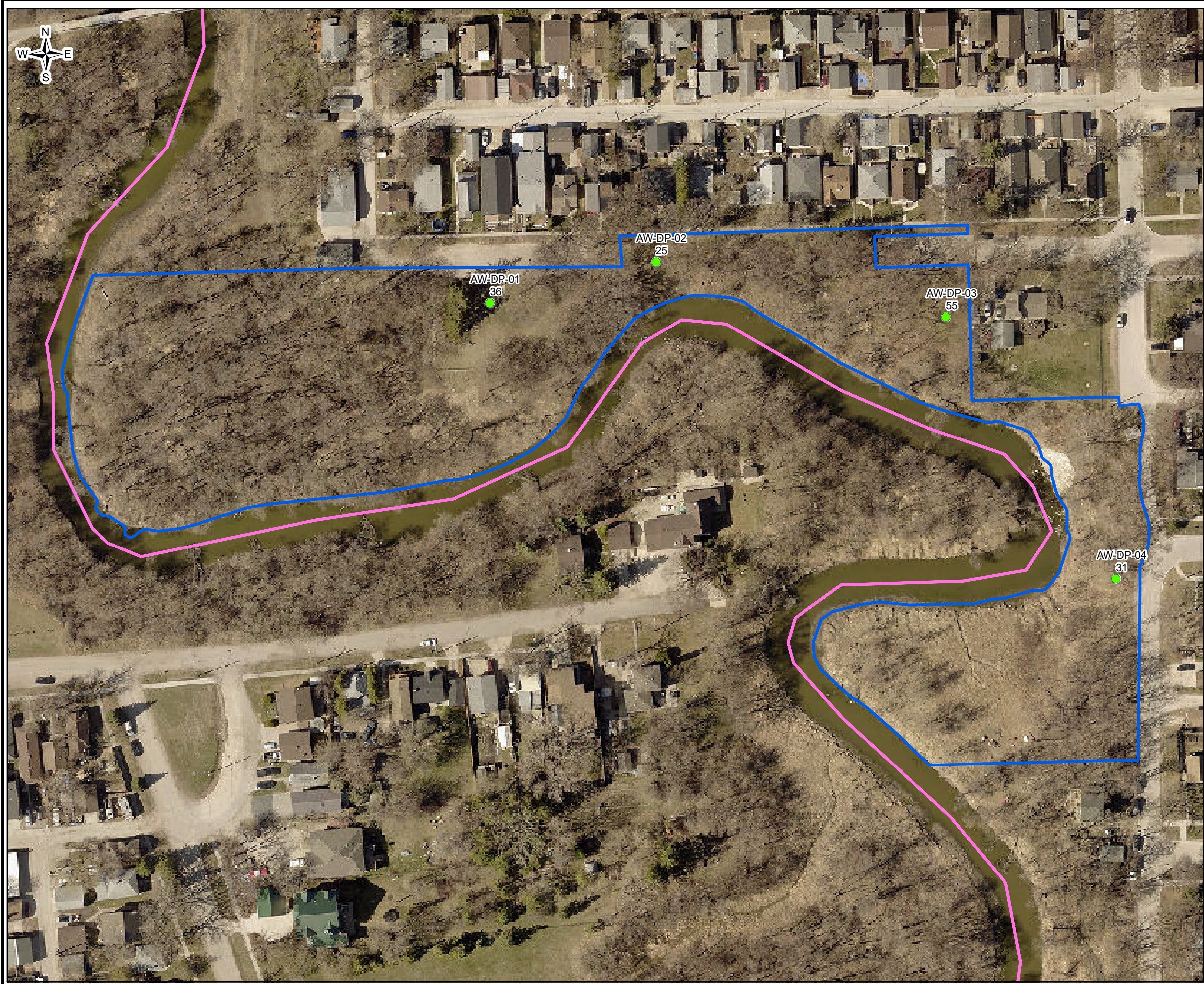
Archwood C.C
(Archwood)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.2 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

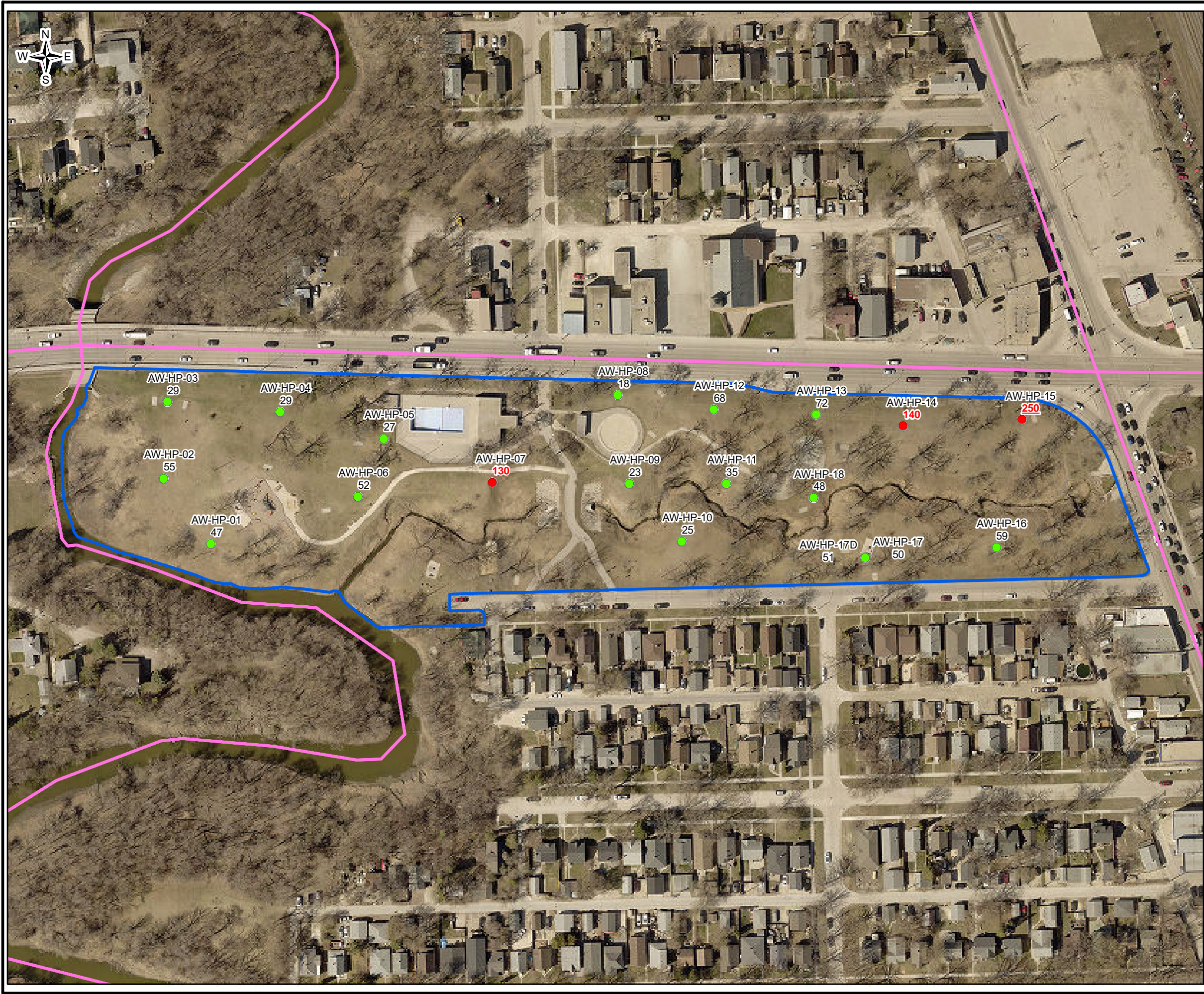
Deniset Park

(Archwood)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.2 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 25 50 100
Meters

Soil Analytical Results – Lead (mg/kg)

Happyland Park

(Archwood)

Winnipeg, MB

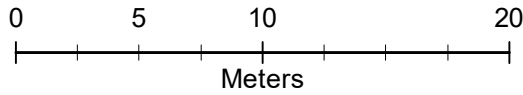
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Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Bannatyne Playground
(Brooklands)
Winnipeg, MB

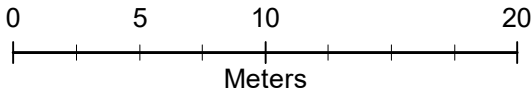
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Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



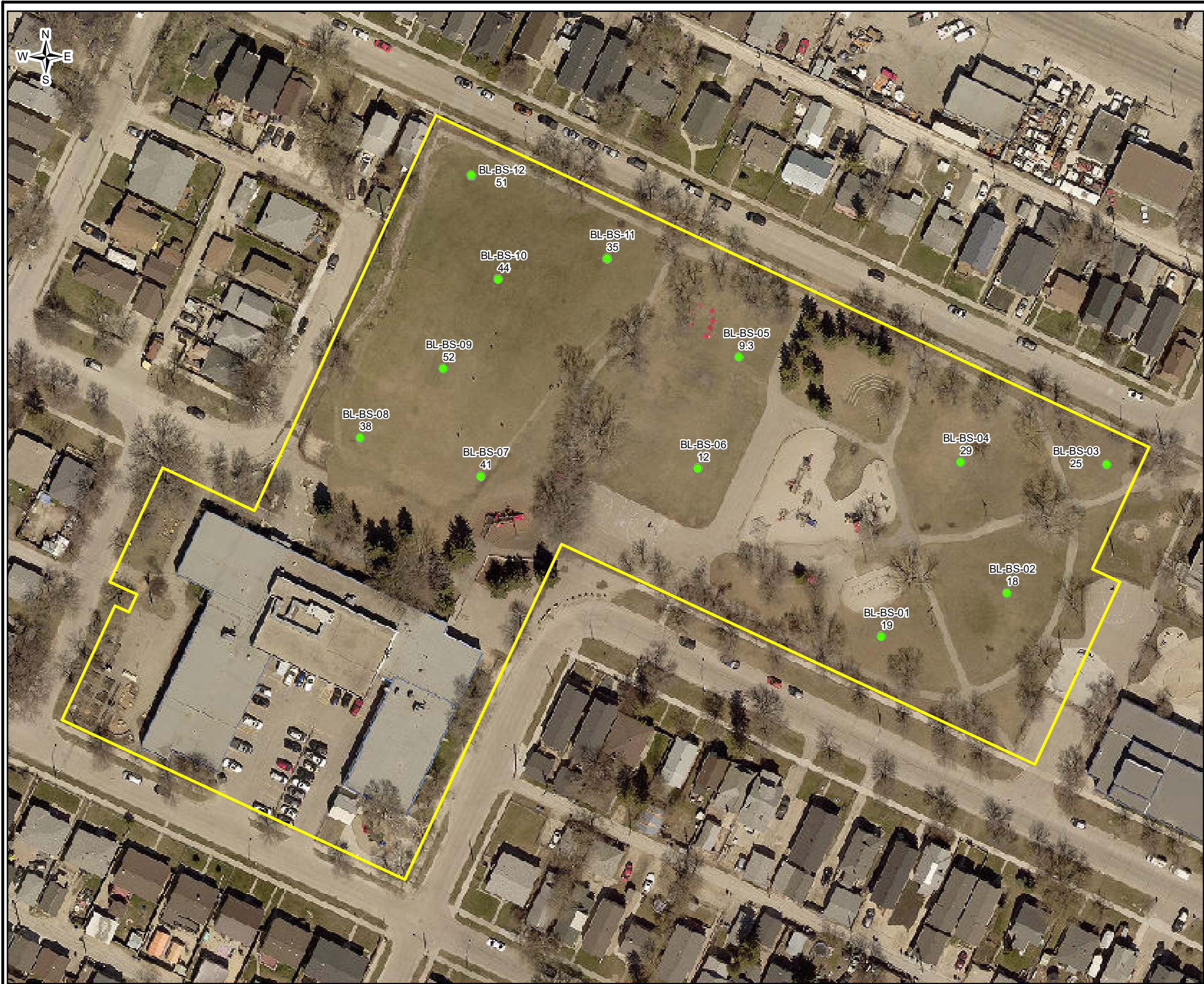
Soil Analytical Results – Lead (mg/kg)
Blue Bird Park
(Brooklands)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

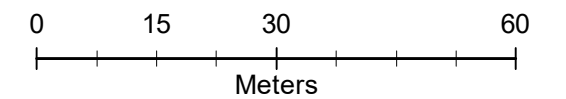
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LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Brooklands school (K-5)
(Brooklands)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.3 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Galmar Park
(Brooklands)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.3 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Lismore Park

(Brooklands)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

6.3 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Pacific Dee Park

(Brooklands)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

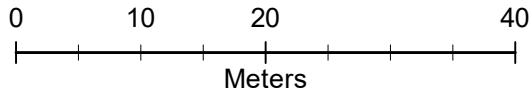
6.3 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

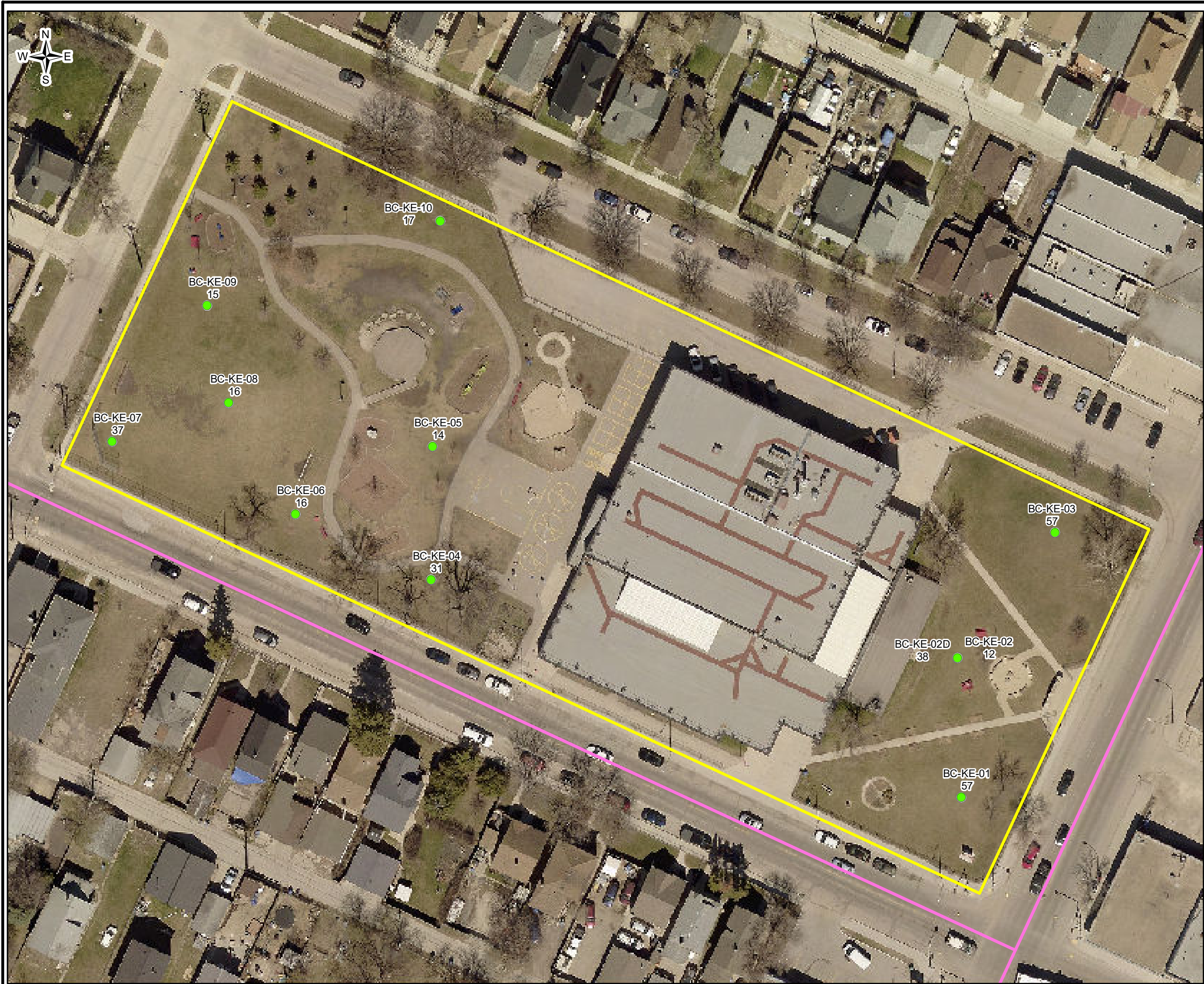
Boyd Park
(Burrows Central)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

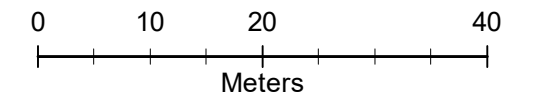
Drawing No.:
6.4 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

King Edward school (N-6)

(Burrows Central)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.4 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Margaret Scott Park

(Burrows Central)

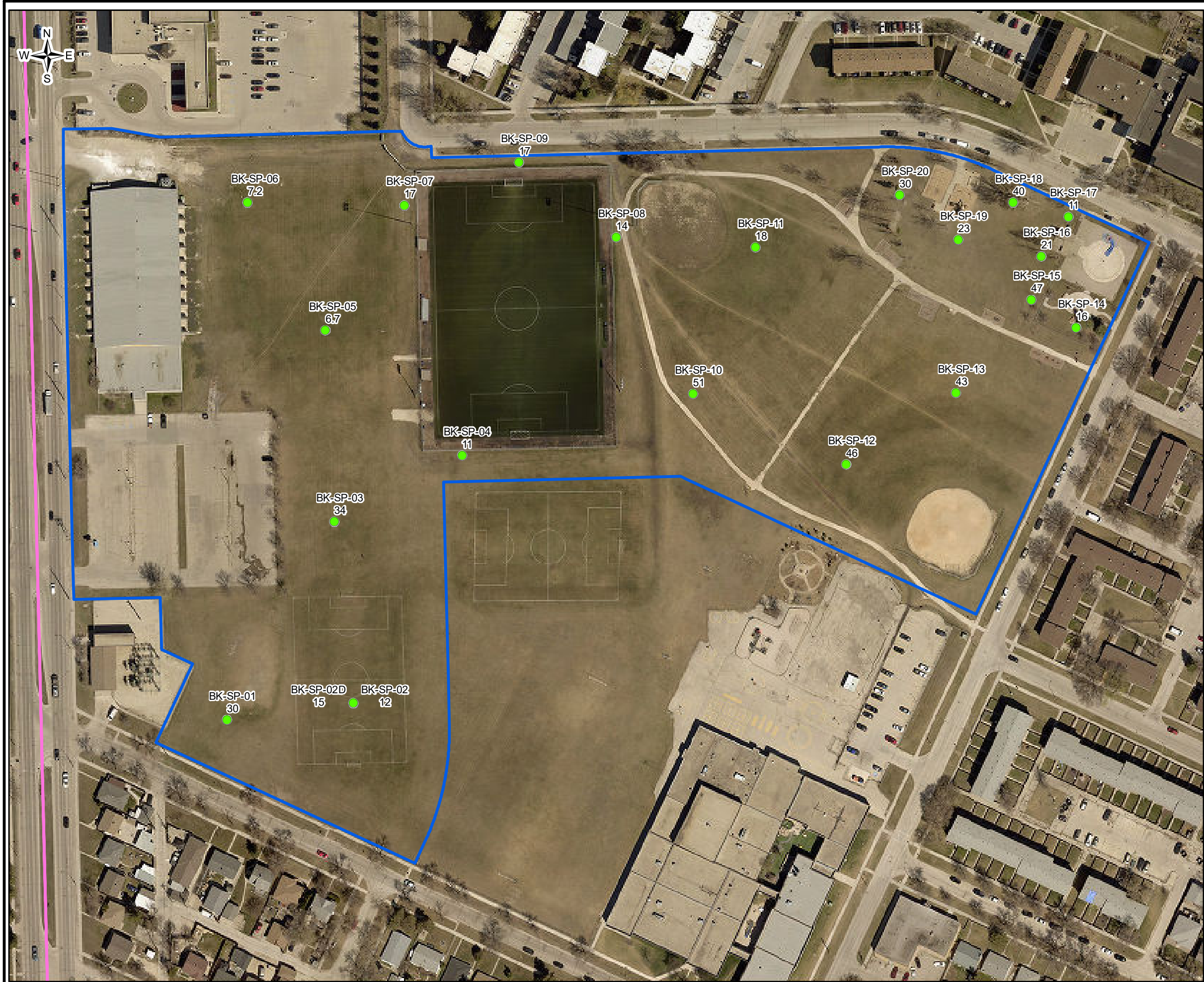
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

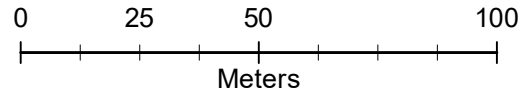
Drawing No.:
6.4 (3)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



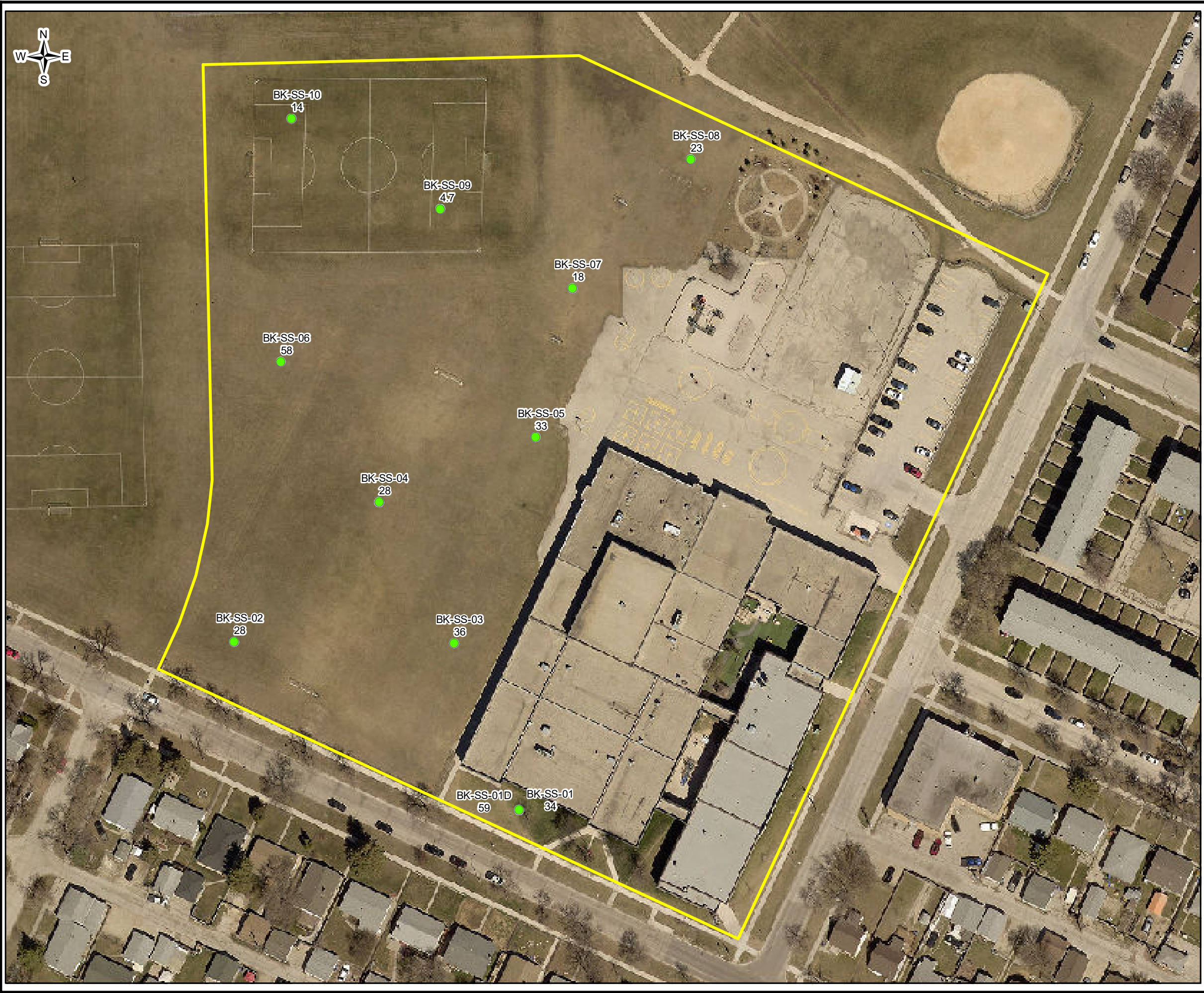
Soil Analytical Results – Lead (mg/kg)
Shaughnessy Park
(Burrows Keewatin)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

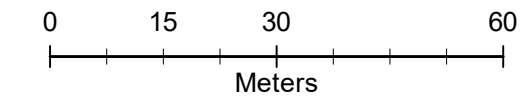
Drawing No.:
6.5 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Shaughnessy Park school (N-8)
(Burrows Keewatin)
Winnipeg, MB

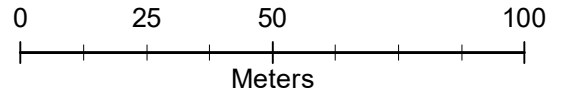
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.5 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F (Centennial)_CN-CC.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Central C.C / Freighthouse

(Centennial)

Winnipeg, MB

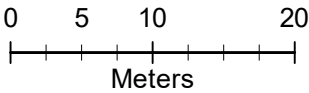
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 11-Feb-2022
PARSONS		Drawing No.: 6.6 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Dufferin Park
(Centennial)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.6 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_ (Centennial)_CN-DS.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 10 20 40
Meters

Soil Analytical Results – Lead (mg/kg)

Dufferin school (N-6)

(Centennial)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 11-Feb-2022
PARSONS		Drawing No.: 6.6 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Giizhigooweyaabikwe Park

(Centennial)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.6 (4)

Document Path: C:\Z_Drive\10-12553M\X\Final\2022\F_(Centennial)_CN-GD.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Gord Dong Park

(Centennial)

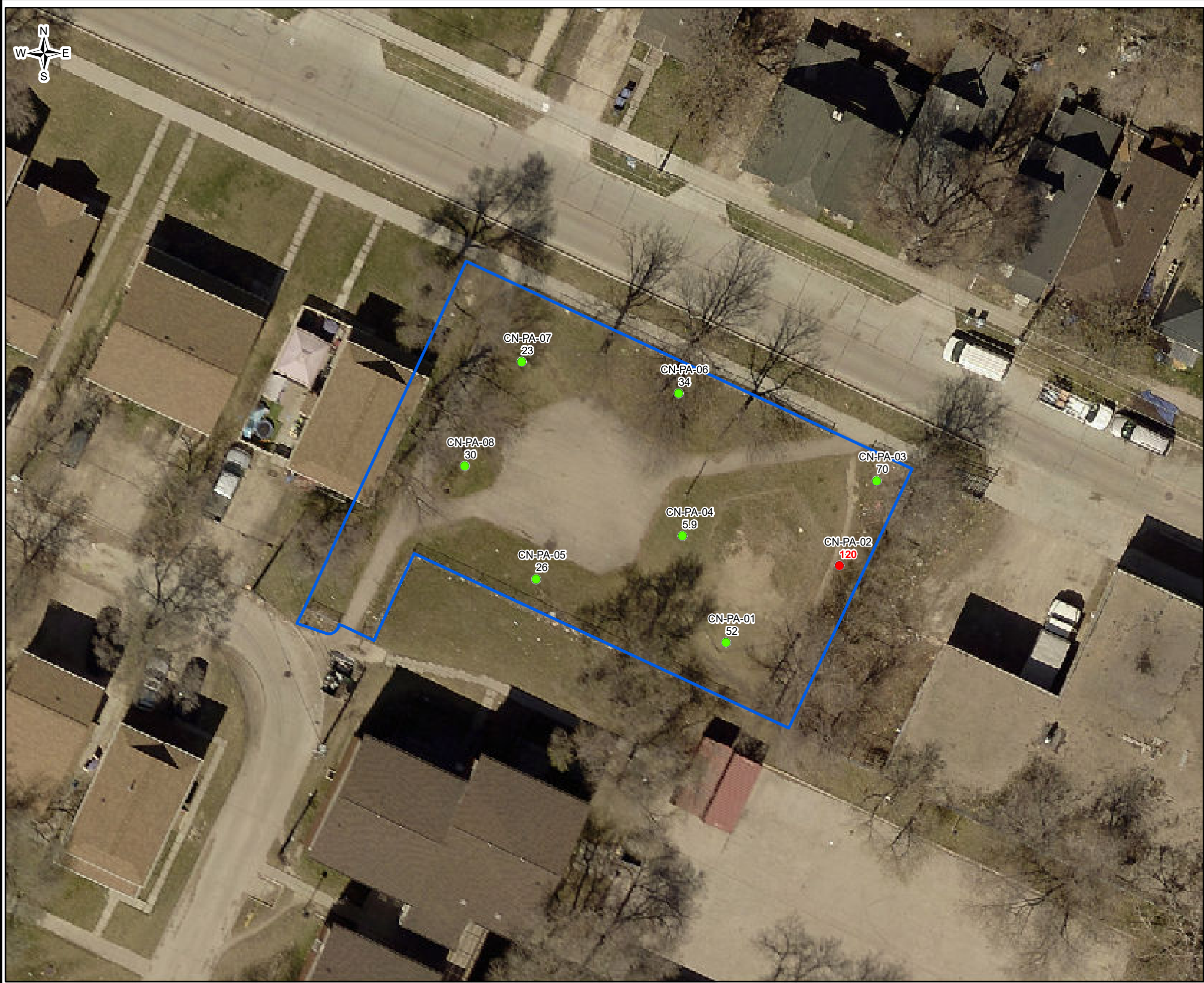
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 11-Feb-2022

PARSONS

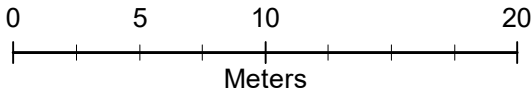
Drawing No.: **6.6 (5)**

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Pacific Avenue Tot Lot

(Centennial)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.6 (6)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Roosevelt Park

(Centennial)

Winnipeg, MB

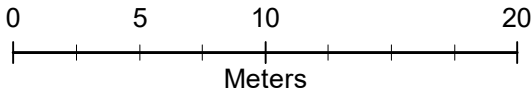
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.6 (7)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

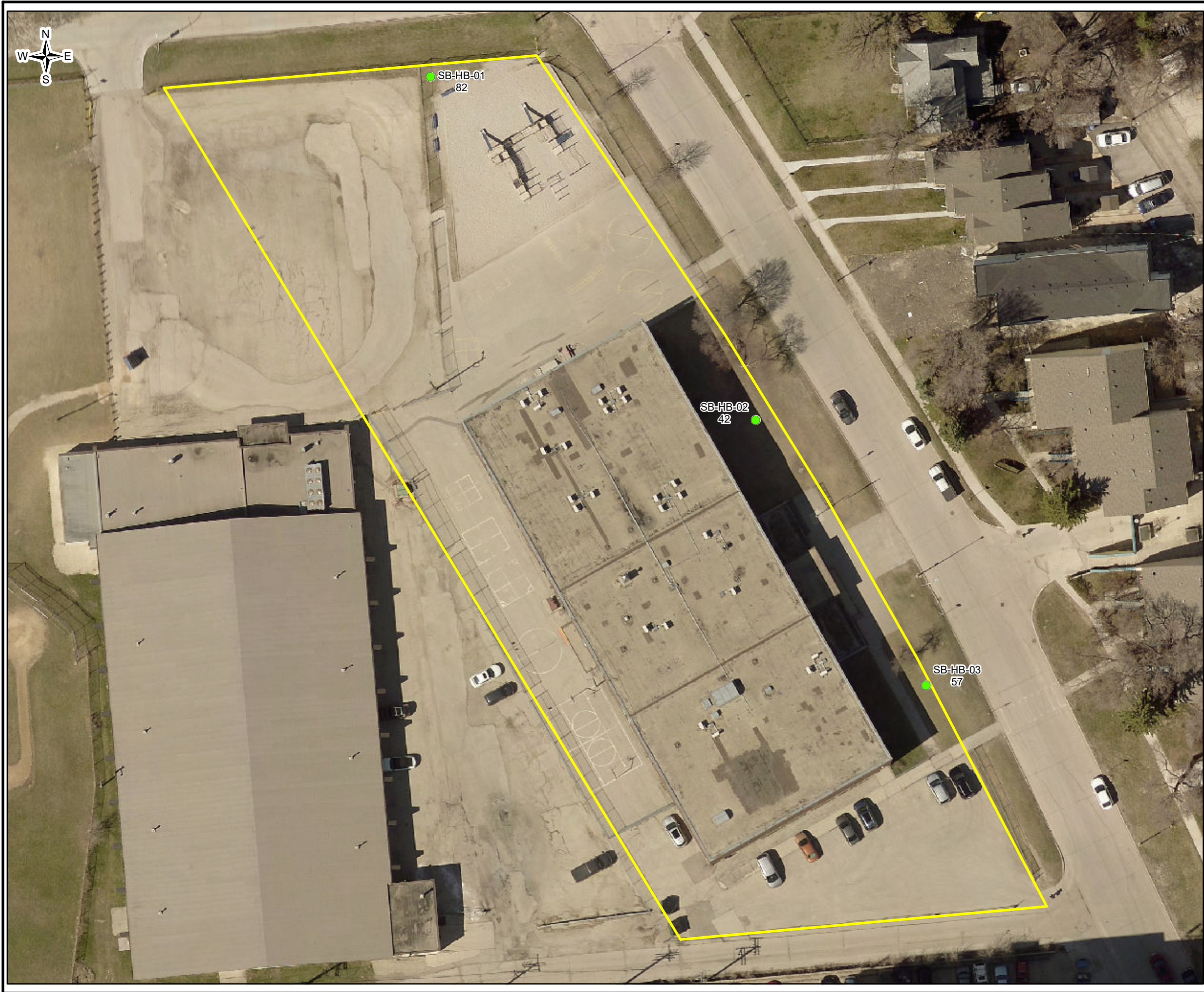
- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Ross Ellen Park
(Centennial)
Winnipeg, MB

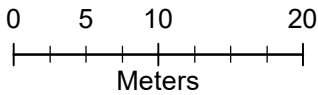
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.6 (8)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_Central St. Boniface_SB-HB.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
École Henri-Bergeron (4-8)
(Central St. Boniface)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.7 (1)

Document Path: C:\Z_Drive\10-1-2553MXD\Final2022\F_Central St. Boniface_SB-EP.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

École Provencher (K-3)

(Central St. Boniface)

Winnipeg, MB

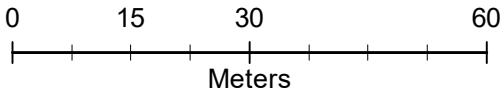
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.7 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

La Verendrye Park

(Central St. Boniface)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

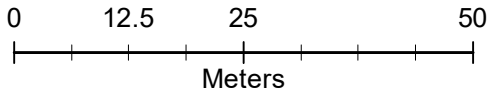
Drawing No.:
6.7 (3)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Marion school (K-8)
(Central St. Boniface)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

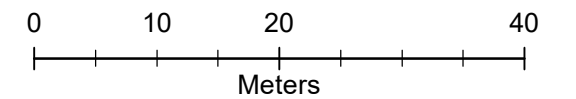
Drawing No.:
6.7 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F (Central St. Boniface)_SB-OC.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Parc Club Optimist-Saint Boniface
-Optimist Club Park
(Central St. Boniface)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

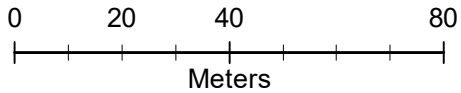
Drawing No.:
6.7 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



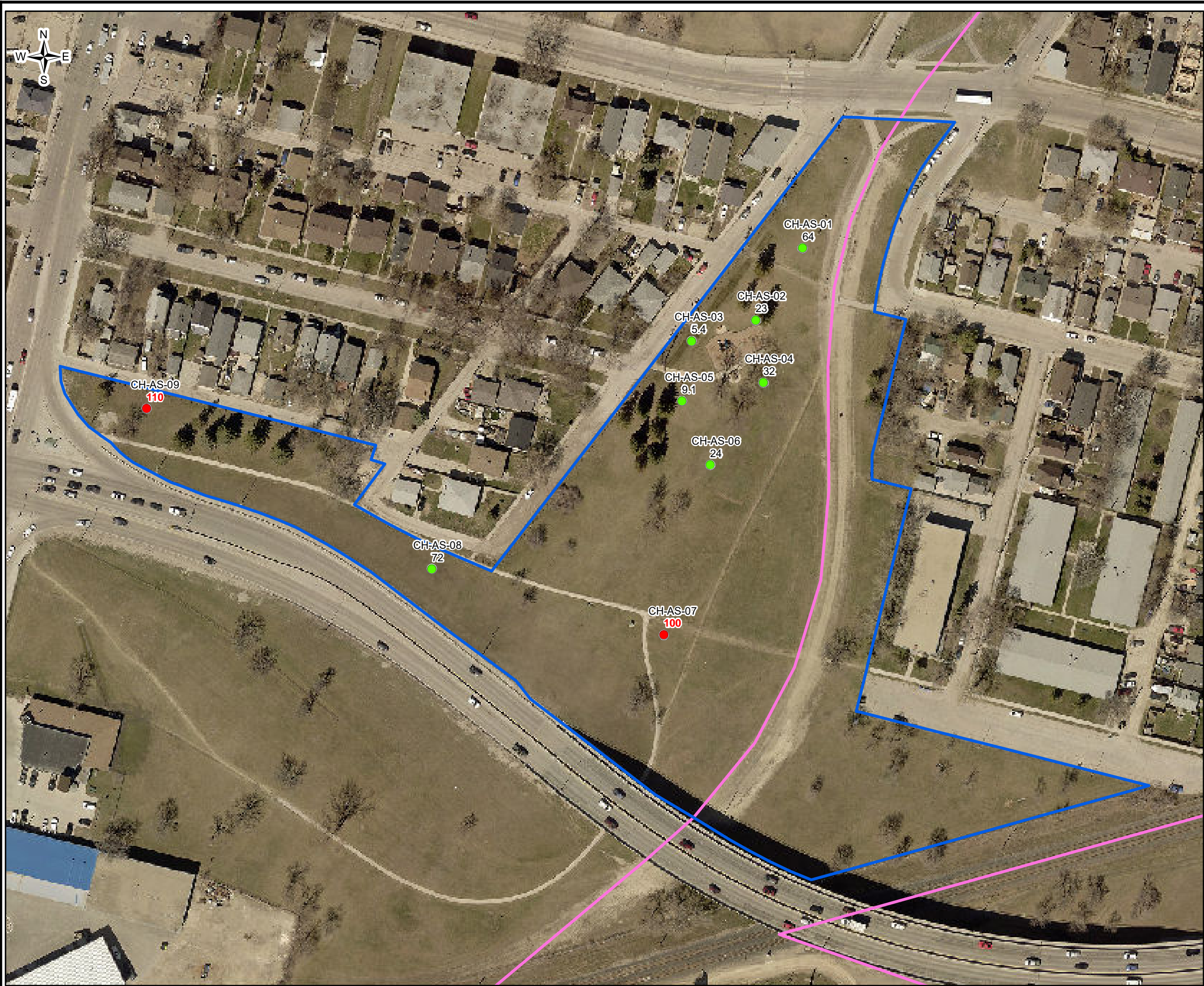
Soil Analytical Results – Lead (mg/kg)
Provencher Park / Notre Dame C.C
(Central St. Boniface)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

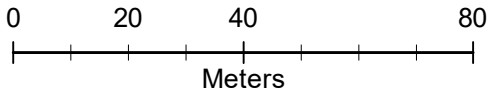
Drawing No.:
6.7 (6)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Abdo and Samira El Tassi Park
(Chalmers)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.8 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion

0 12.5 25 50
Meters

Soil Analytical Results – Lead (mg/kg)

Clara Hughes Recreation Park

(Chalmers)

Winnipeg, MB

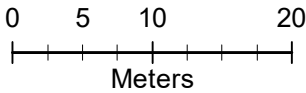
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.8 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

East End Cultural & Leisure Centre

(Chalmers)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

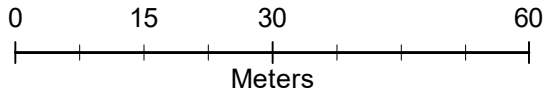
Drawing No.:
6.8 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



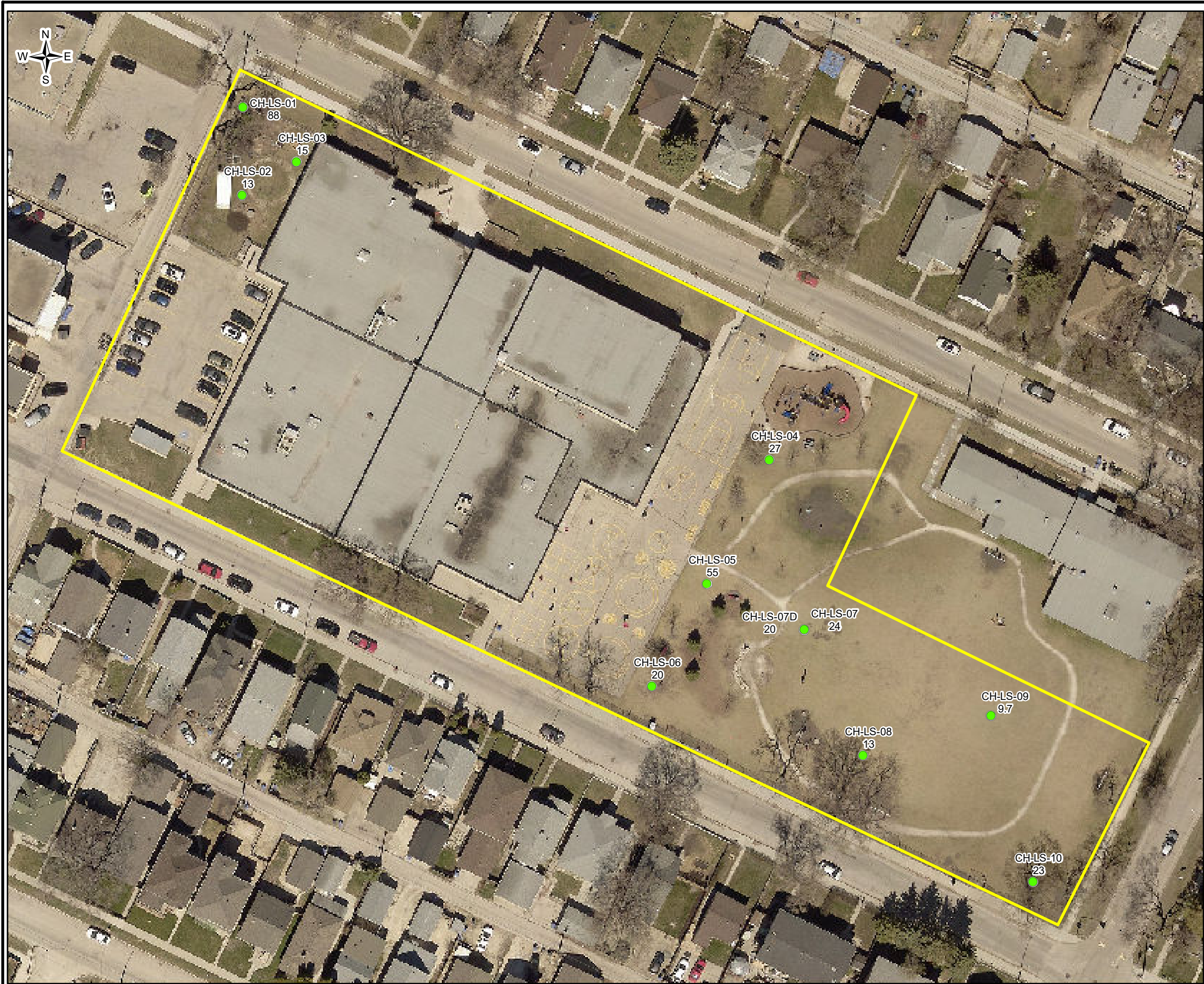
Soil Analytical Results – Lead (mg/kg)
Elmwood Winter Club
(Chalmers)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

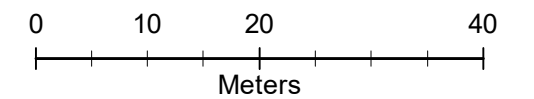
Drawing No.:
6.8 (4)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Lord Selkirk school (N-6)
(Chalmers)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.8 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

River Elm school (N-6)

(Chalmers)

Winnipeg, MB

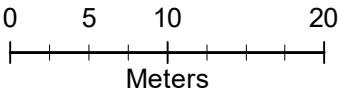
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.8 (6)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Roy Davis Memorial Park
(Chalmers)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

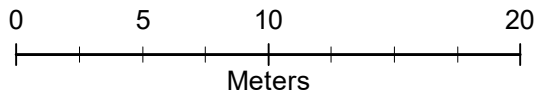
Drawing No.:
6.8 (7)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Union Tot Lot
(Chalmers)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

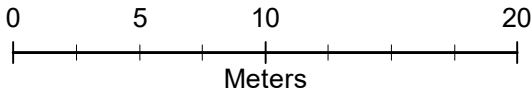
Drawing No.:
6.8 (8)

Document Path: C:\Z_Drive\10-1-2553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Home Playground
(Daniel McIntyre)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.9 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



0 15 30 60
Meters

Soil Analytical Results – Lead (mg/kg)

Jacob Penner Park

(Daniel McIntyre)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.: 6.9 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 12.5 25 50
Meters

Soil Analytical Results – Lead (mg/kg)

John M King school (N-6)

(Daniel McIntyre)

Winnipeg, MB

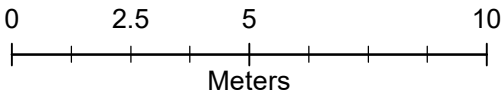
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.9 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_ (Daniel McIntyre)_DM-LP.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Lipton Park

(Daniel McIntyre)

Winnipeg, MB

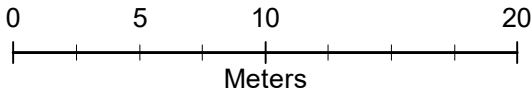
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.9 (4)

Document Path: C:\Z_Drive\10-12553M\X\Final\2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Maryland Tot Lot

(Daniel McIntyre)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.9 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 12.5 25 50
Meters

Soil Analytical Results – Lead (mg/kg)

Wellington school (N-6)

(Daniel McIntyre)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.9 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND <ul style="list-style-type: none">Exceeds applicable criterionLess than applicable criterionPark boundarySchool boundaryCity property adjacent schoolNeighborhood of Interest <ul style="list-style-type: none">55 - Lead concentration (mg/kg)EE-RR-01 - Sample ID ("D" denotes duplicate)BOLD - Equals to or exceeds Intrinsic criterionBOLD - Exceeds CCME criterion		
<p>0 5 10 20</p> <p>Meters</p>		
<p>Soil Analytical Results – Lead (mg/kg)</p> <p>Immaculate Heart of Mary school (N-8)</p> <p>(Dufferin)</p> <p>Winnipeg, MB</p>		
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.10 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Immaculate Heart Playground

(Dufferin)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

6.10 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final\2022\F_ (Dufferin)_DU-NM.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)
Niji Mahkwa (N-8) and Children
of Earth (9-12) schools
(Dufferin)
Winnipeg, MB

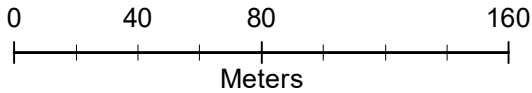
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.10 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Excel_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - BOLD** - Equals to or exceeds Intrinsic criterion
 - BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

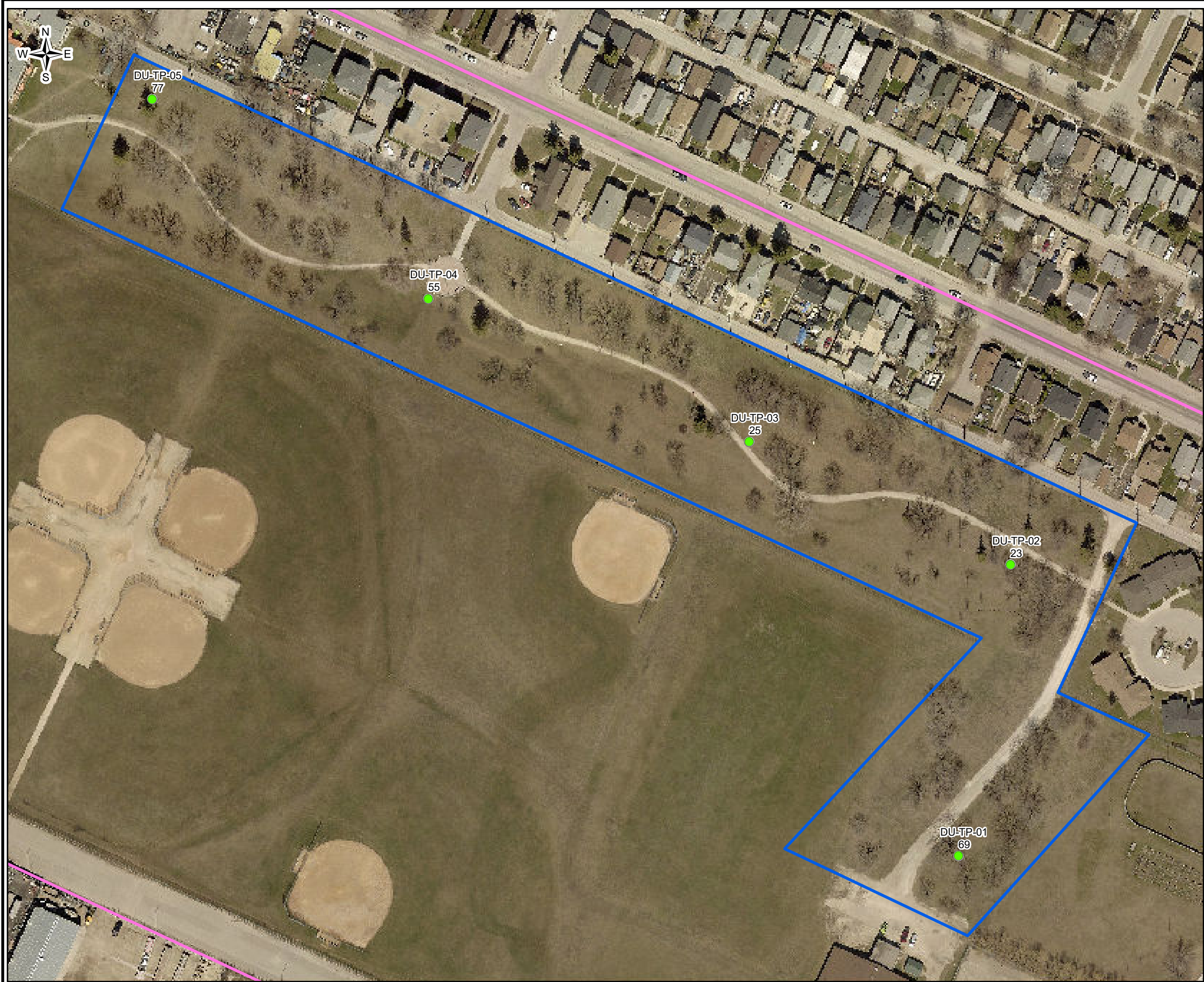
Old Exhibition Athletic Grounds
(Dufferin)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.10 (4)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 20 40 80

Meters

Soil Analytical Results – Lead (mg/kg)

Sargent Tommy Prince MM Veterans Park

(Dufferin)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

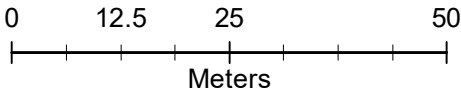
6.10 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Kavanagh Park
(Dufresne)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.11 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

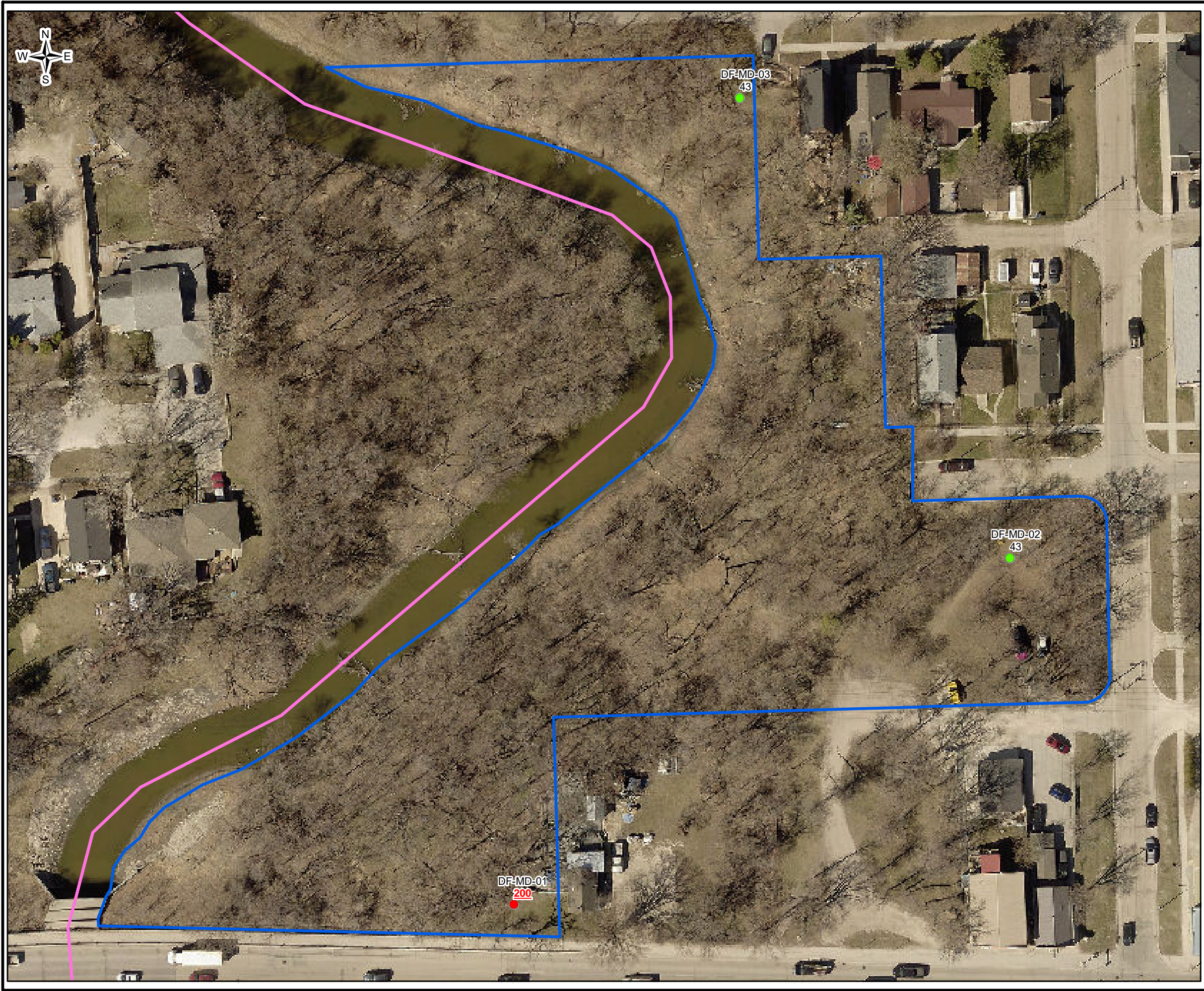
Kavanagh Playground

(Dufresne)

Winnipeg, MB

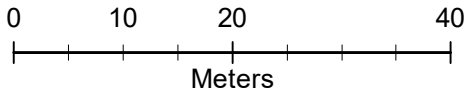
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.11 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Marion-Dufresne Riverbank

(Dufresne)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

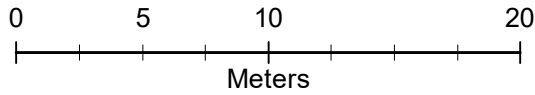
Drawing No.:
6.11 (3)

Document Path: C:\Z_Drive\10-12553M\X\D\Final\2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Clyde Road Park

(East Elmwood)

Winnipeg, MB

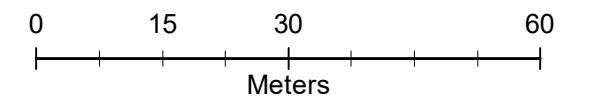
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.12 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

East Elmwood Park

(East Elmwood)

Winnipeg, MB

Image Date: Spring 2021
Image Source: City of Winnipeg, 2022

Drawn By: SLD/JDC
Reviewed By: JB/GSK

Ref: 10-12553
Date: 10-Feb-2022

PARSONS

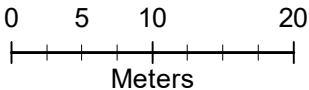
Drawing No.:
6.12 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Hap Hopkinson Memorial Park
(East Elmwood)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

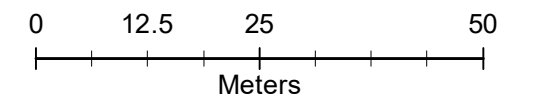
Drawing No.:
6.12 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Kent Road school (N-6)

(East Elmwood)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.12 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

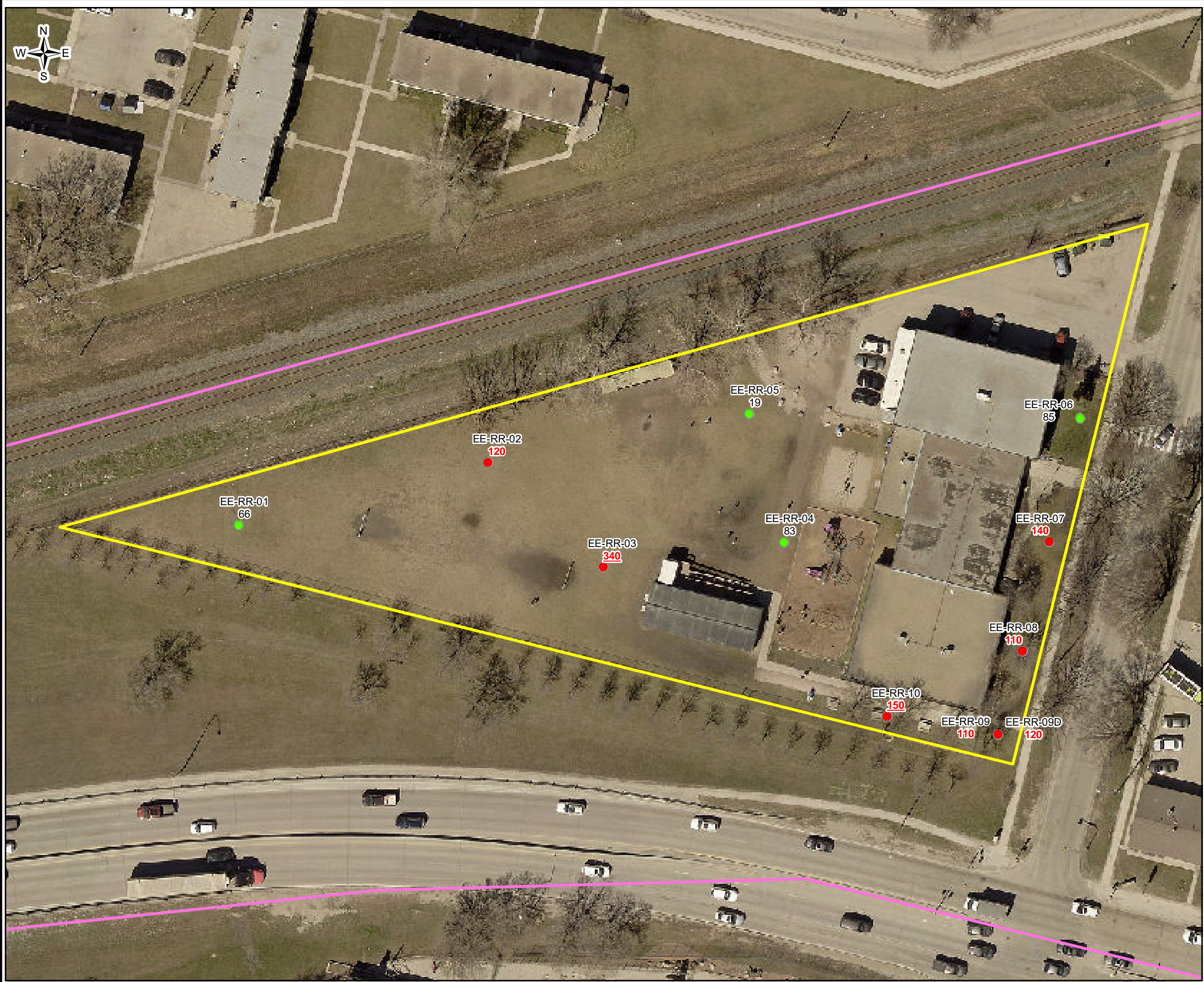
McCalman Parkette East

(East Elmwood)

Winnipeg, MB

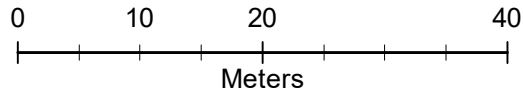
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.12 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Red River Valley Junior Academy (N-12)
(East Elmwood)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

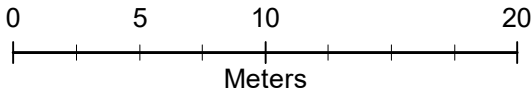
Drawing No.:
6.12 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

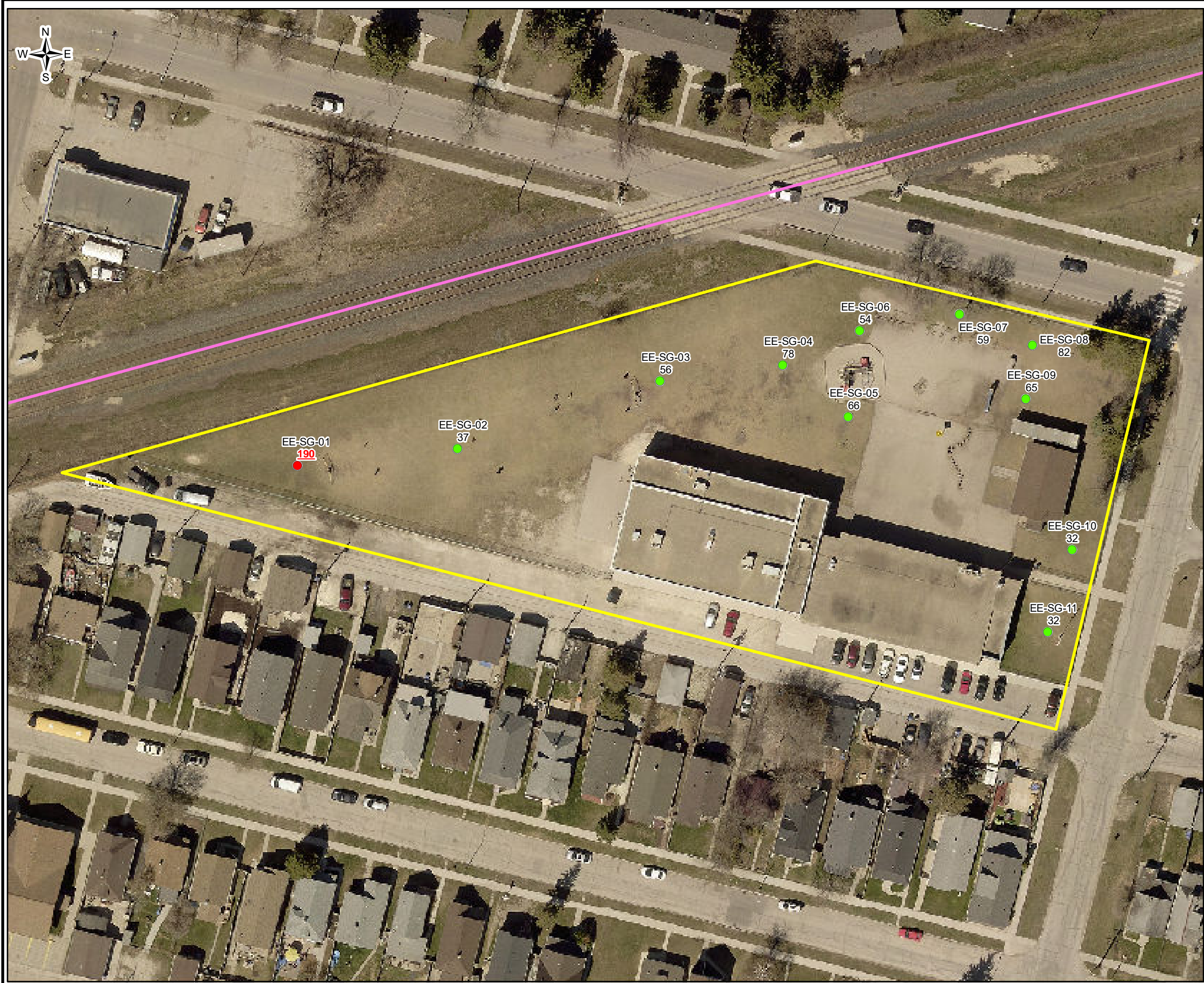
Sir Sam Steele Park

(East Elmwood)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.12 (7)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 10 20 40
Meters

Soil Analytical Results – Lead (mg/kg)

St. Gerard school (N-8)

(East Elmwood)

Winnipeg, MB

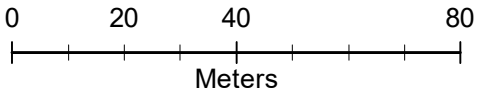
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.12 (8)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

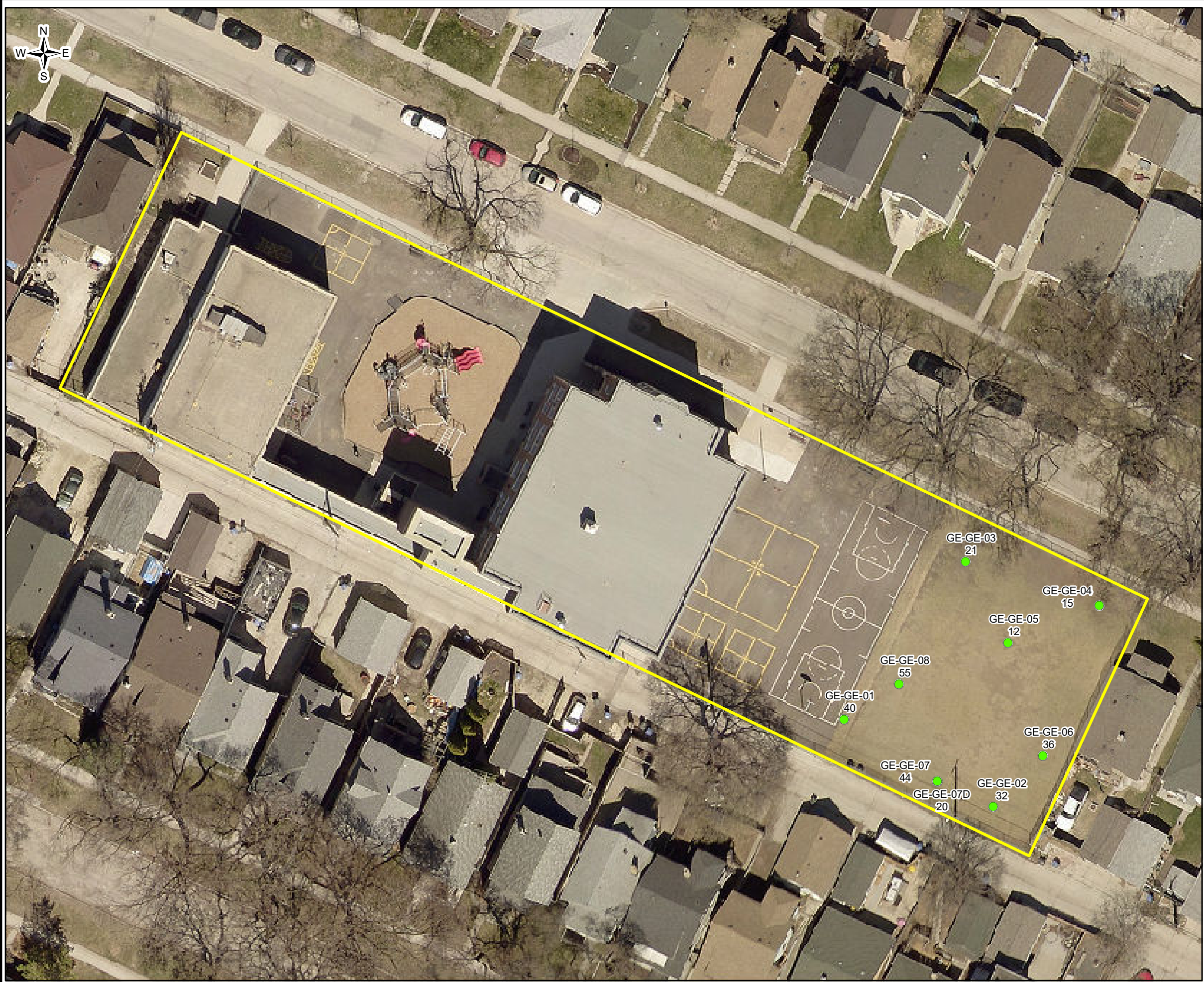
- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Elmwood Park
(Glenelm)
Winnipeg, MB

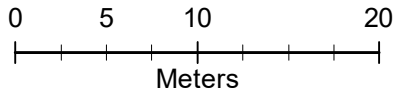
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.13 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Glenelm school (N-6)
(Glenelm)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

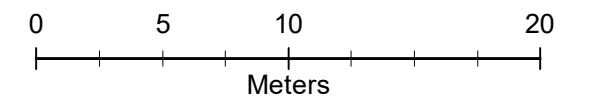
Drawing No.:
6.13 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Hespeler Park
(Glenelm)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

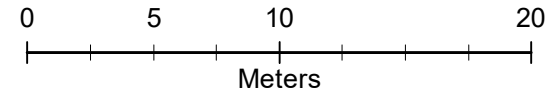
Drawing No.:
6.13 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Talbot Tot Lot
(Glenelm)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.13 (4)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Lambert Park

(Holden)

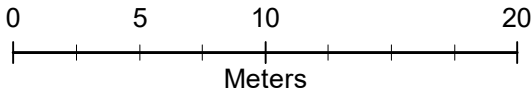
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.14 (1)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Arlington Tot Lot

(Inkster-Faraday)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.15 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

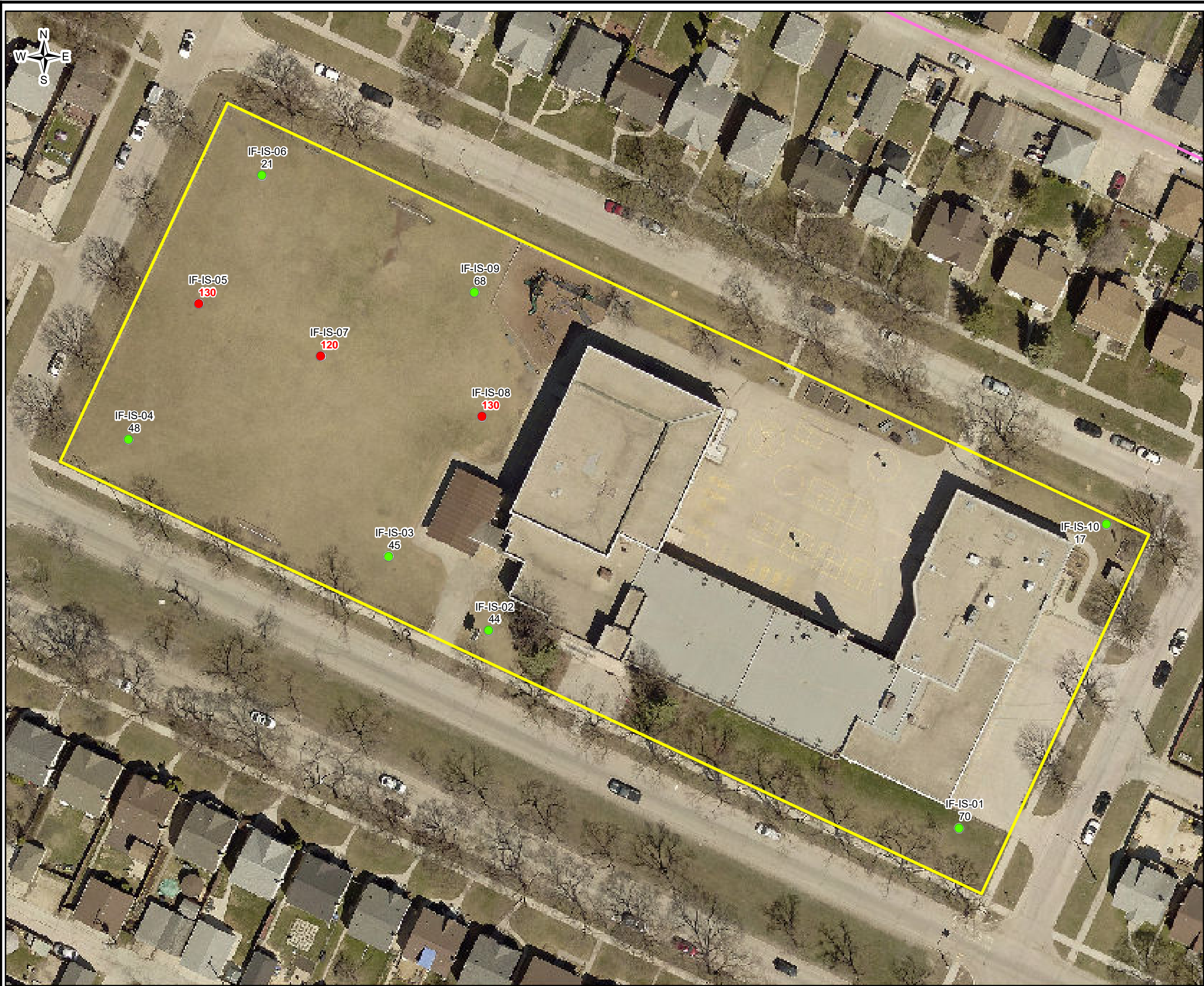
Faraday school (N-6)

(Inkster-Faraday)

Winnipeg, MB

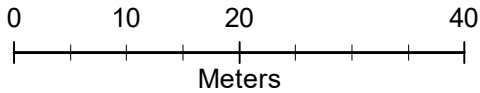
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.15 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Inkster school (N-6)
(Inkster-Faraday)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

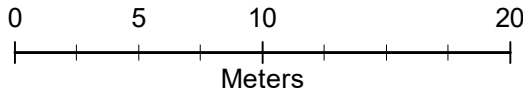
Drawing No.:
6.15 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
McKenzie Tot Lot
(Inkster-Faraday)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.15 (4)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Parr Tot Lot

(Inkster-Faraday)

Winnipeg, MB

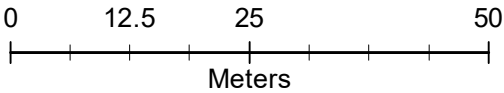
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.15 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Argue & Rosedale Athletic Field
(Lord Roberts)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

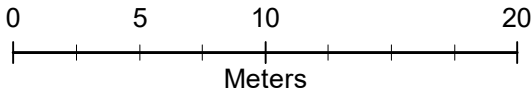
Drawing No.:
6.16 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



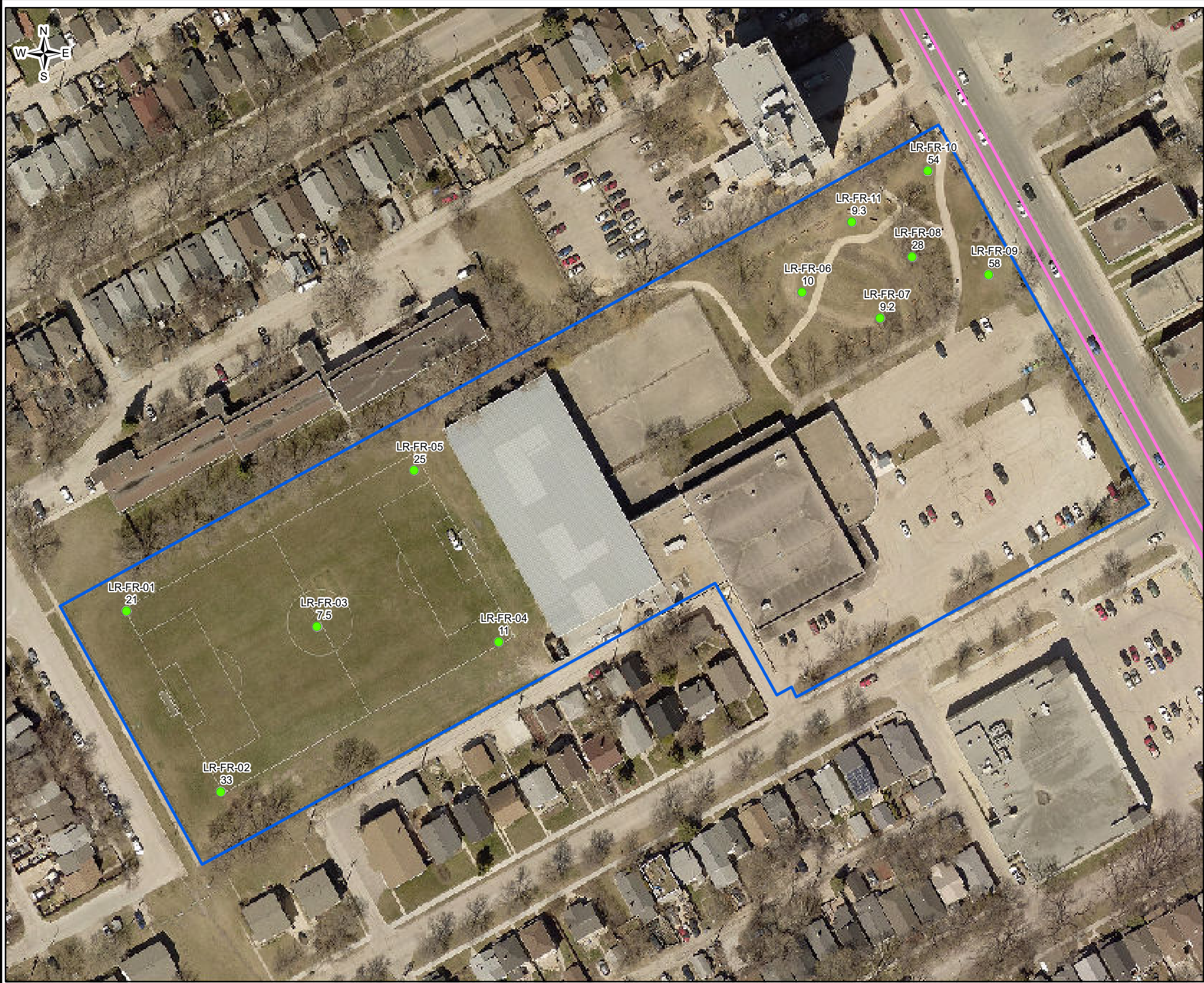
Soil Analytical Results – Lead (mg/kg)
Brandon Avenue Tot Lot
(Lord Roberts)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.16 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 15 30 60
Meters

Soil Analytical Results – Lead (mg/kg)

Fort Rouge Leisure Centre

(Lord Roberts)

Winnipeg, MB

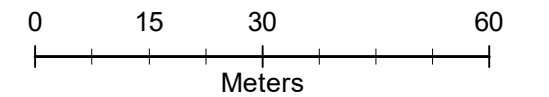
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.16 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Lord Roberts C.C

(Lord Roberts)

Winnipeg, MB

Image Date: Spring 2021
Image Source: City of Winnipeg, 2022

Drawn By: SLD/JDC
Reviewed By: JB/GSK

Ref: 10-12553
Date: 10-Feb-2022

PARSONS

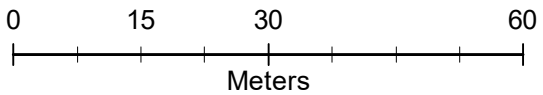
Drawing No.:
6.16 (4)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Lord Roberts school (N-6)

(Lord Roberts)

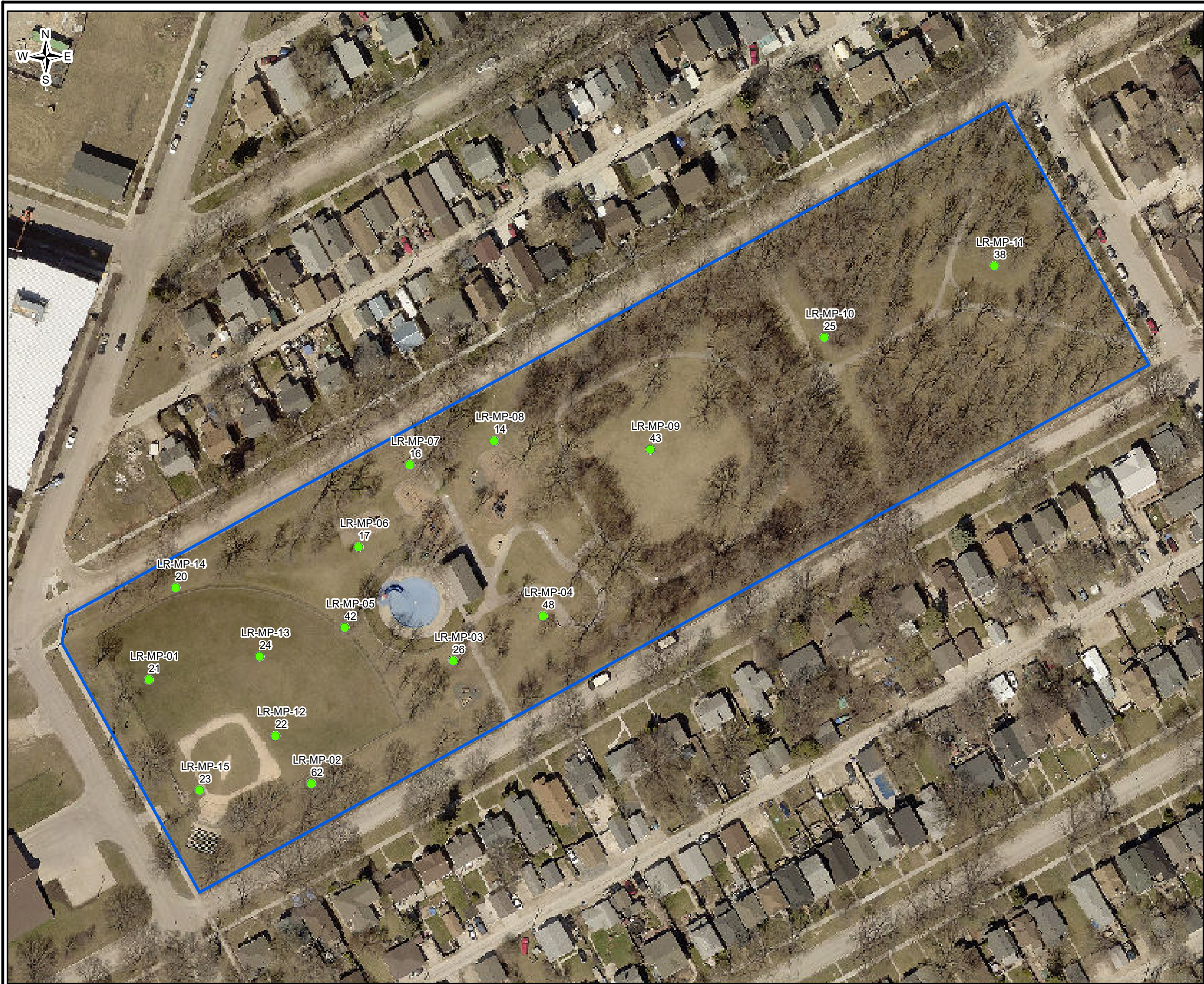
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

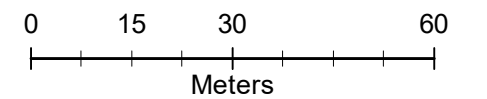
Drawing No.:
6.16 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

McKittrick Park
(Lord Roberts)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

6.16 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Nassau Square Park

(Lord Roberts)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.16 (7)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

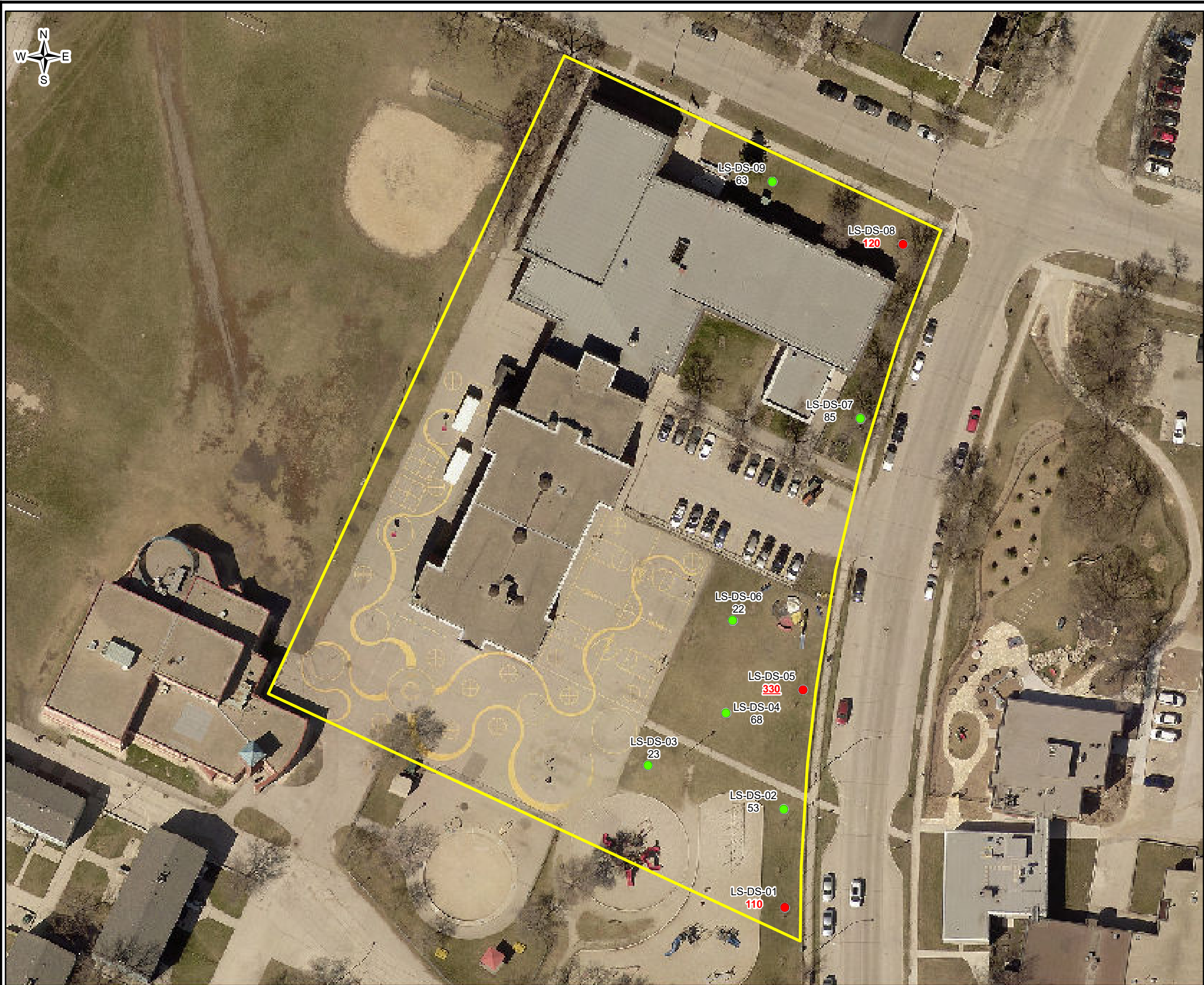
Soil Analytical Results – Lead (mg/kg)
Will and Jeanine Richard Memorial Park
(Lord Roberts)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

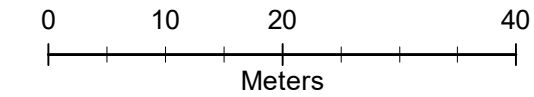
Drawing No.:
6.16 (8)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
David Livingstone school (N-8)
(Lord Selkirk Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

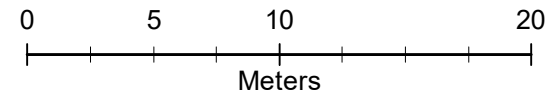
Drawing No.:
6.17 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Dufferin Tot Lot-Kinsman
(Lord Selkirk Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

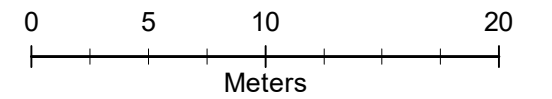
Drawing No.:
6.17 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

North Winnipeg Action Centre
(Lord Selkirk Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

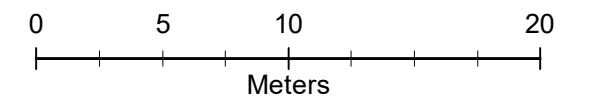
Drawing No.:
6.17 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Robinson Park
(Lord Selkirk Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.17 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 15 30 60
Meters

Soil Analytical Results – Lead (mg/kg)

Turtle Island Community Centre

(Lord Selkirk Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.17 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

051020

Meters

Soil Analytical Results – Lead (mg/kg)

Dr. Louis Slotin Park

(Luxton)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.18 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Luxton C.C

(Luxton)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.18 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Luxton school (N-6)

(Luxton)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

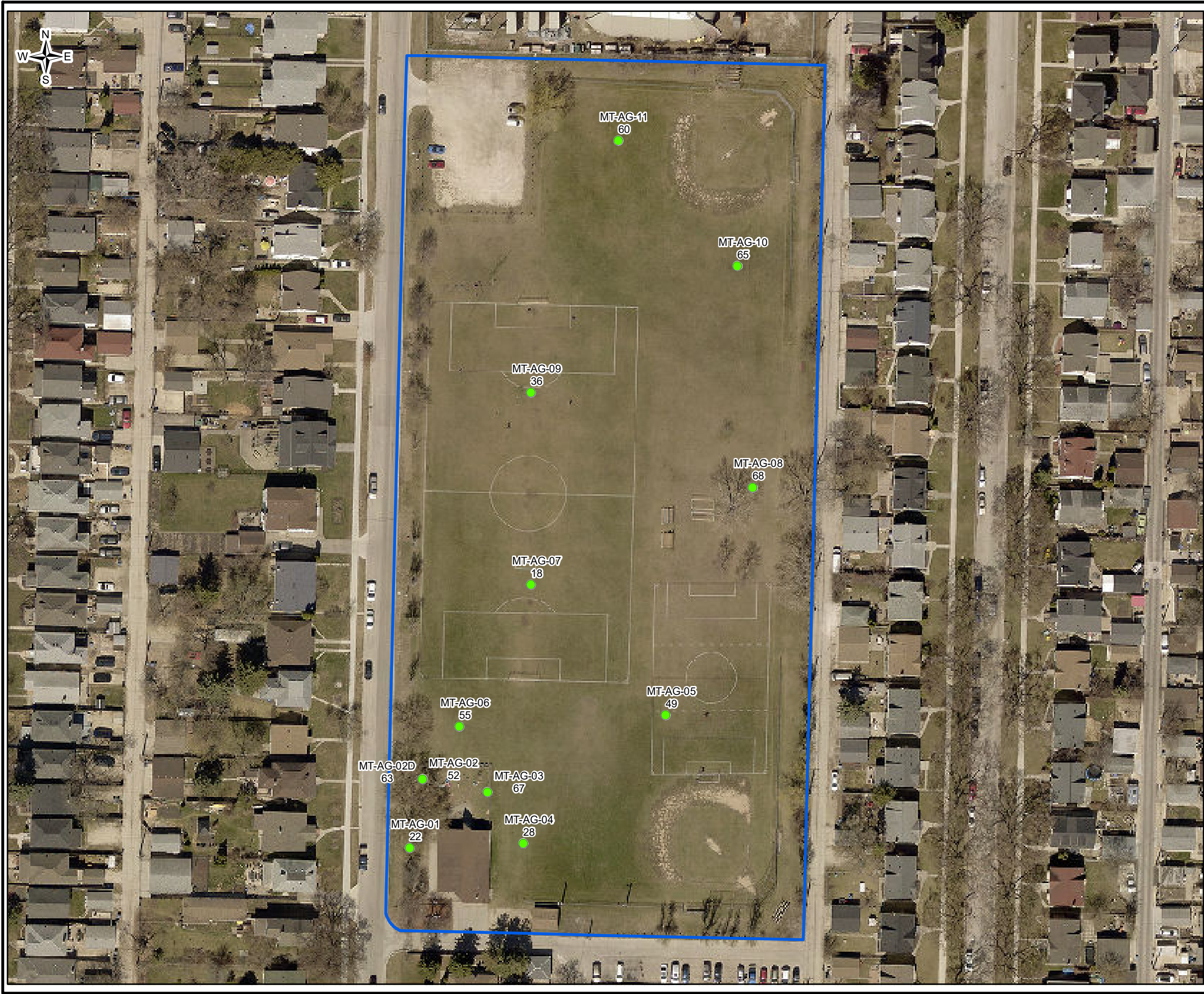
Drawing No.: **6.18 (3)**

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND <ul style="list-style-type: none">Exceeds applicable criterionLess than applicable criterionPark boundarySchool boundaryCity property adjacent schoolNeighborhood of Interest <ul style="list-style-type: none">55 - Lead concentration (mg/kg)EE-RR-01 - Sample ID ("D" denotes duplicate)BOLD - Equals to or exceeds Intrinsic criterionBOLD - Exceeds CCME criterion		
<div>0153060Meters</div>		
Soil Analytical Results – Lead (mg/kg) Isaac Brock school (N-9) (Minto) Winnipeg, MB		
Image Date: Spring 2021 Image Source: City of Winnipeg, 2022	Drawn By: SLD/JDC Reviewed By: JB/GSK	Ref: 10-12553 Date: 10-Feb-2022
PARSONS		Drawing No.: 6.19 (1)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Minto Athletic Grounds

(Minto)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.19 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

051020

Meters

Soil Analytical Results – Lead (mg/kg)

Minto Tot Lot

(Minto)

Winnipeg, MB

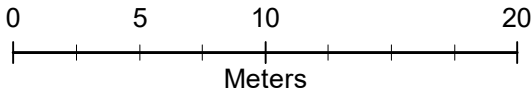
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.19 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



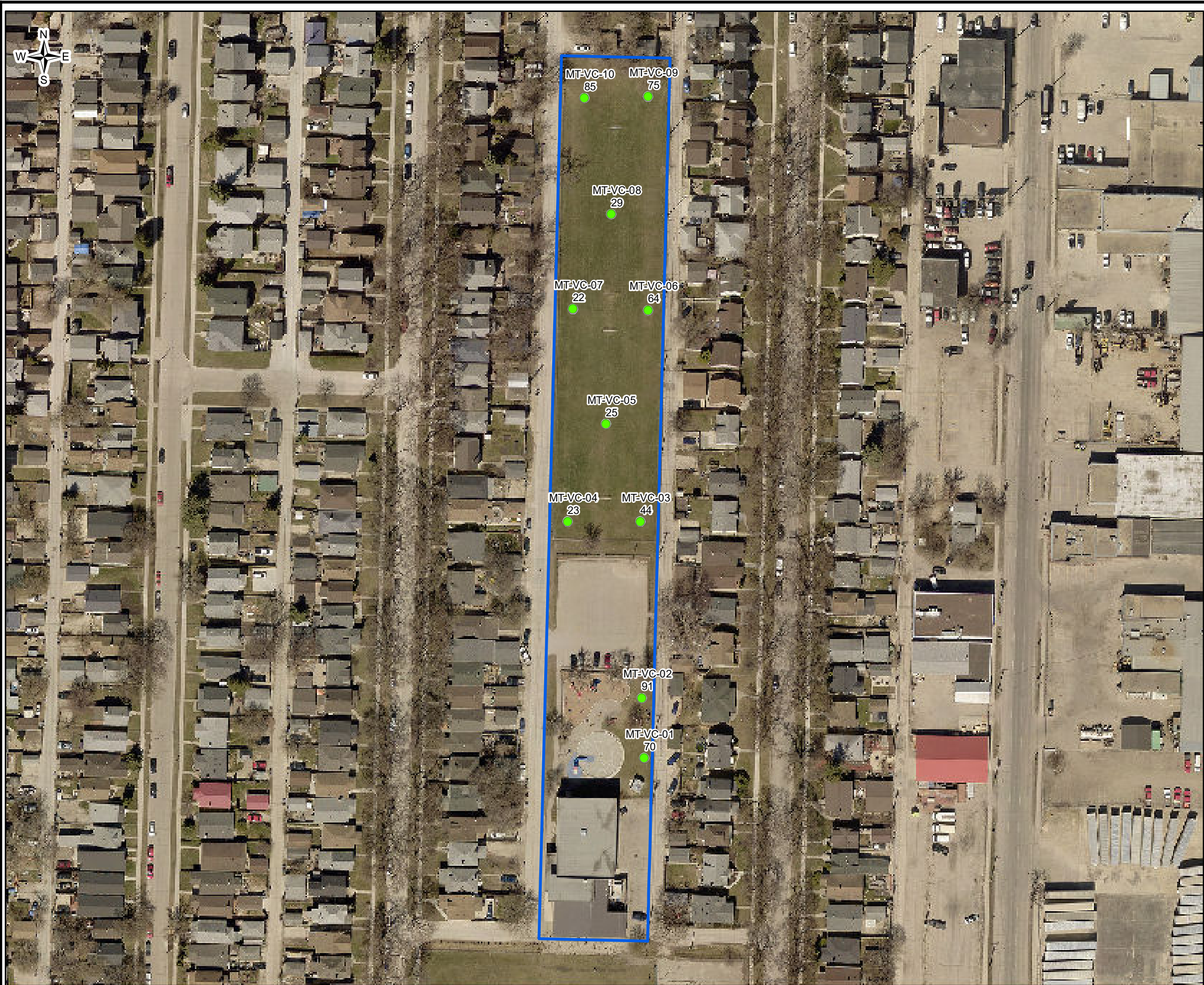
LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



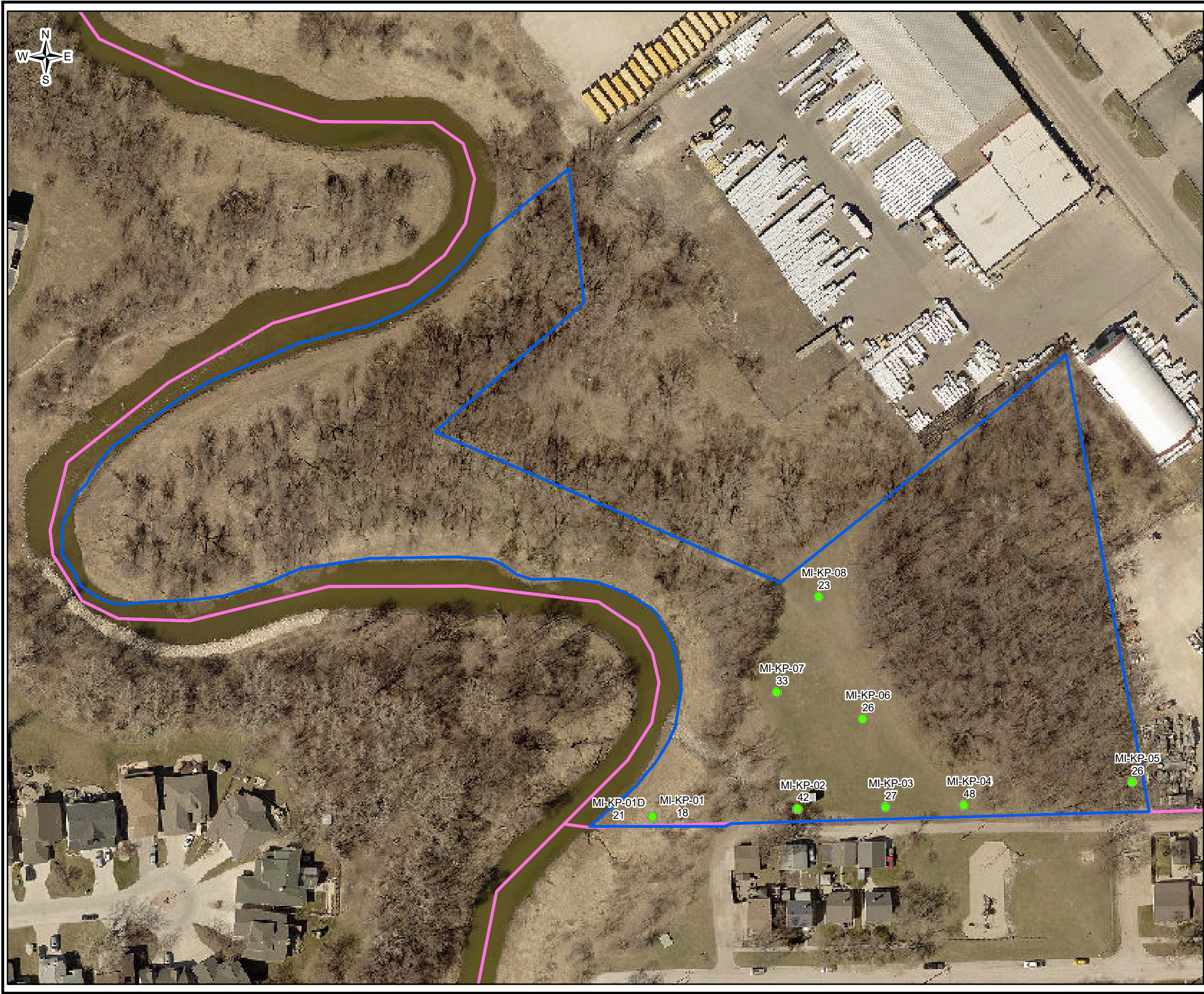
Soil Analytical Results – Lead (mg/kg)
Sherburn Tot Lot
(Minto)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.19 (4)



<div>0204080</div> <div>Meters</div>		
<div>Soil Analytical Results – Lead (mg/kg)</div> <div>Valour C.C-Isaac Brock Site</div> <div>(Minto)</div> <div>Winnipeg, MB</div>		
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
<div>PARSONS</div>		Drawing No.: 6.19 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Kavanagh Park
(Mission Industrial)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.20 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

Soil Analytical Results – Lead (mg/kg)
Mission Park
(Mission Industrial)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.20 (2)

Document Path: C:\Z_Drive\10-12553M\XDFinal2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Andrew Mynarski school (7-9)

(Mynarski)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

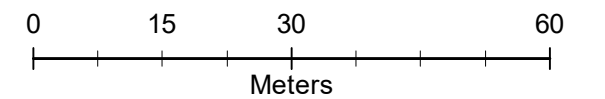
6.21 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Aberdeen Adventure Playground

(North Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.22 (1)

Document Path: C:\Z_Drive\10-12553M\XD\Final\2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Dr. Jim Shaver Memorial Playground

(North Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.22 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

Soil Analytical Results – Lead (mg/kg)

Joe Zuken Heritage Park

(North Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

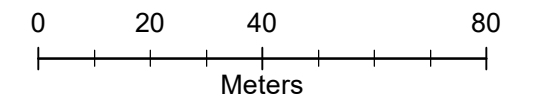
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6.22 (3)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F (North Point Douglas)_ND-MJ.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Michaëlle Jean Park / Norquay C.C

(North Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

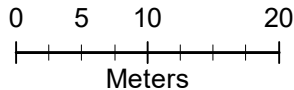
Drawing No.:
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Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Norquay school (N-6)
(North Point Douglas)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.22 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

012.52550

Meters

Soil Analytical Results – Lead (mg/kg)

Point Douglas Park

(North Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.22 (6)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Syndicate Tot Lot

(North Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

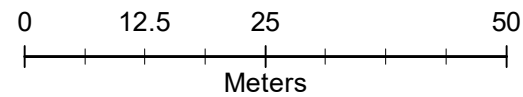
Drawing No.:
6.22 (7)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Champlain C.C
(Norwood East)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

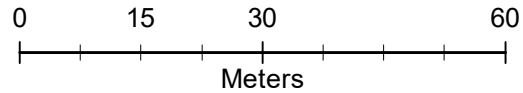
Drawing No.:
6.23 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



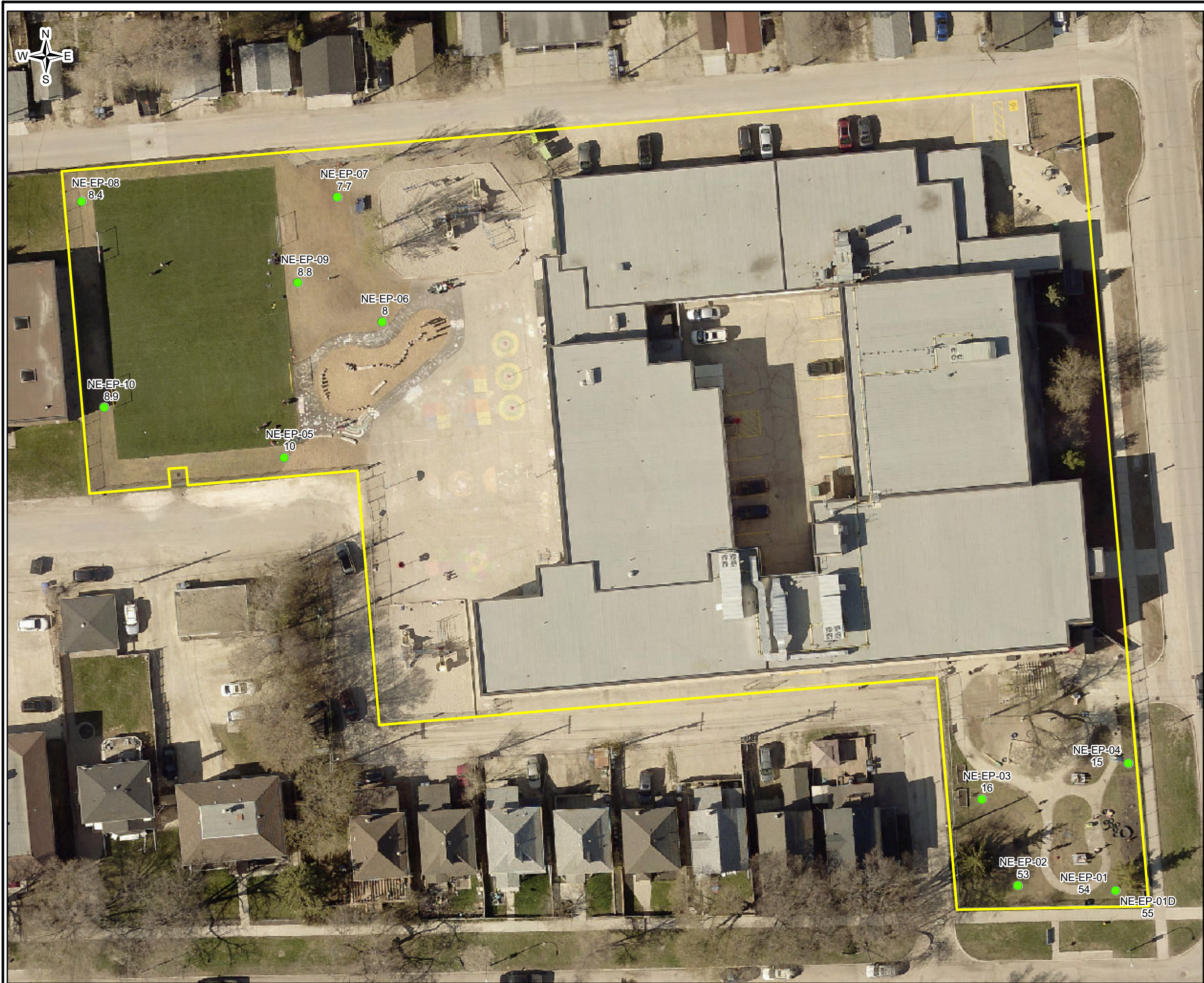
Soil Analytical Results – Lead (mg/kg)
Coronation Park
(Norwood East)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

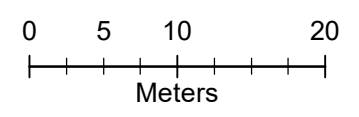
Drawing No.:
6.23 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_ (Norwood East)_NE-EP.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

École Precieux-Sang (K-8)

(Norwood East)

Winnipeg, MB

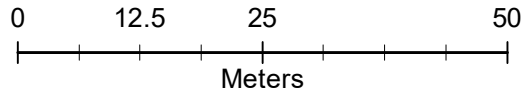
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.23 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Falcon Park

(Norwood East)

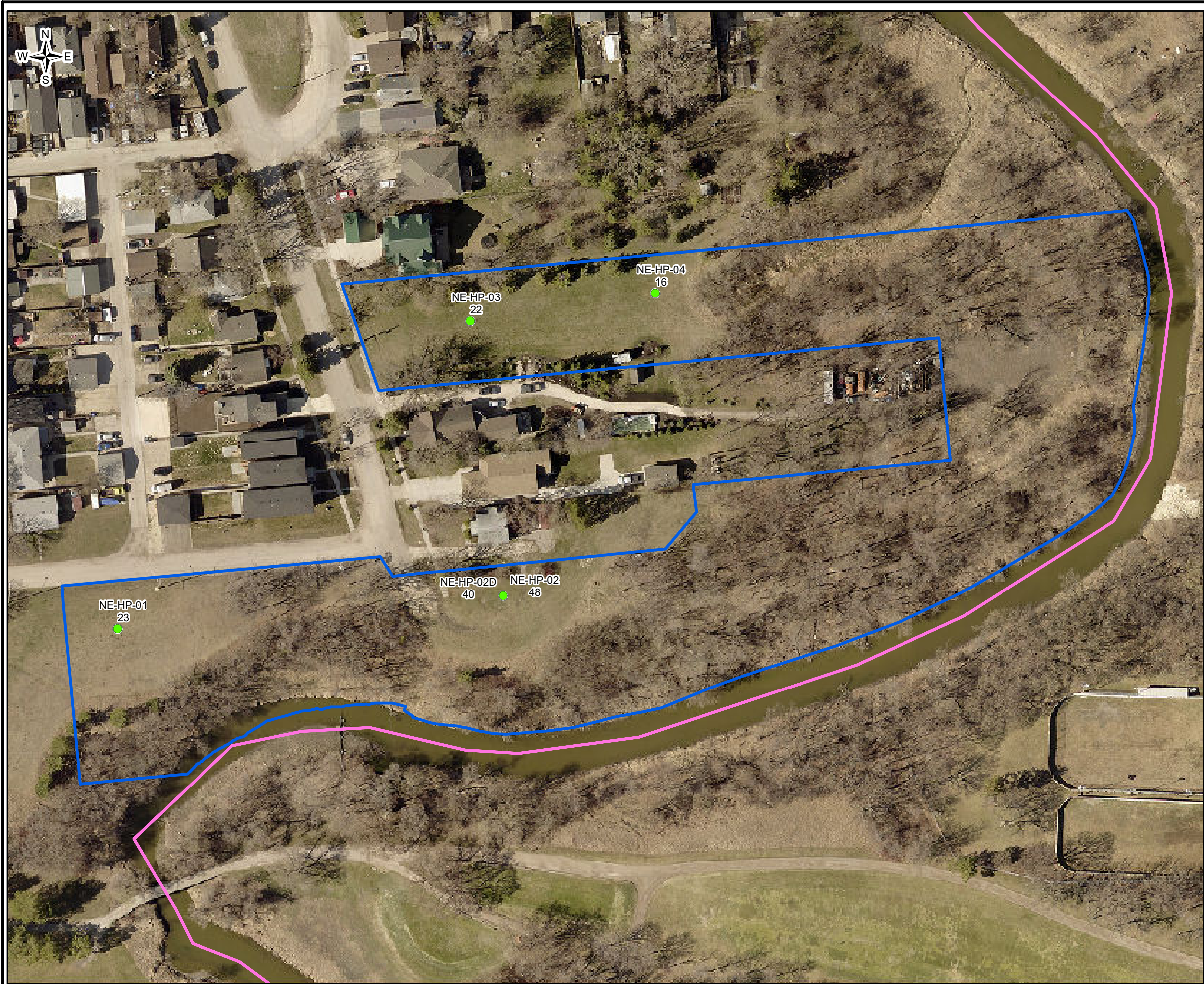
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.23 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Heather Park

(Norwood East)

Winnipeg, MB

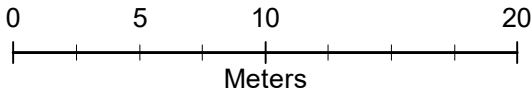
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.23 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Traverse Park

(Norwood East)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.23 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Fort Rouge Park

(River-Osborne)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.24 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

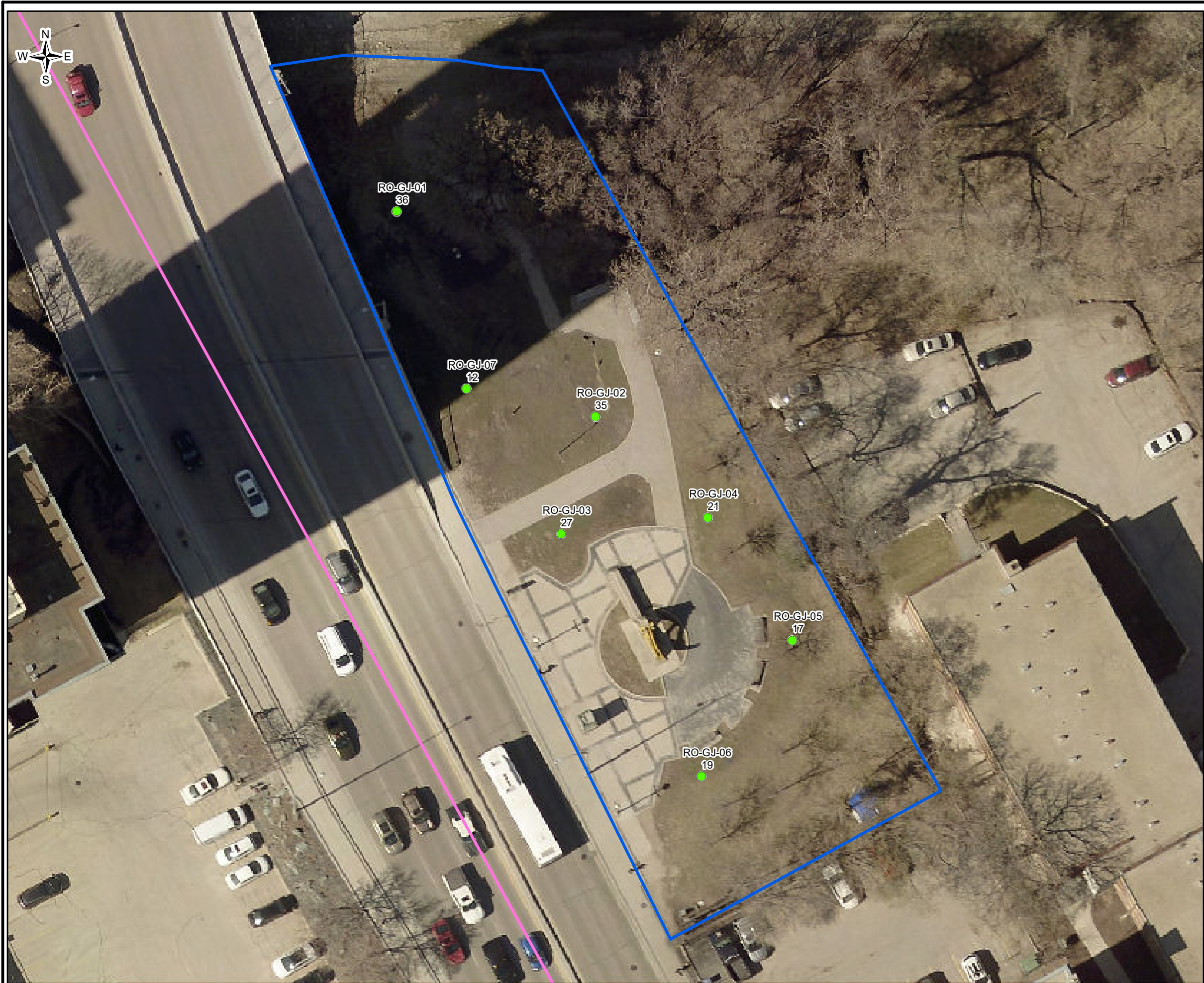
Soil Analytical Results – Lead (mg/kg)
Fort Rouge school (N-6)
(River-Osborne)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.24 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Gerald James Lynch Park

(River-Osborne)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.24 (3)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)

Mayfair Park East

(River-Osborne)

Winnipeg, MB

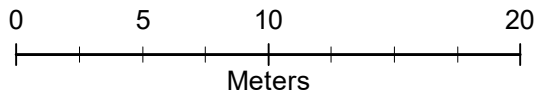
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.24 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Scott-Stradbrook Park
(River-Osborne)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.24 (5)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 20 40 80
Meters

Soil Analytical Results – Lead (mg/kg)

Arnold Avenue Park

(Riverview)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.25 (1)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 40 80 160
Meters

Soil Analytical Results – Lead (mg/kg)

Churchill Drive Community Gardens

(Riverview)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.25 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **190** - Equals to or exceeds Intrinsic criterion
■ **170** - Exceeds CCME criterion

0 110 220 440

Meters

Soil Analytical Results – Lead (mg/kg)

Churchill Drive Park

(Riverview)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

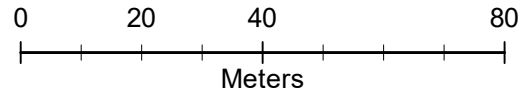
Drawing No.: **6.25 (3)**

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Don Togo Park
(Riverview)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

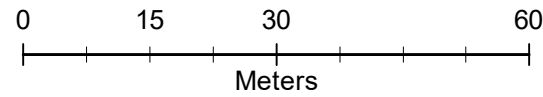
Drawing No.:
6.25 (4)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Fisher Park

(Riverview)

Winnipeg, MB

Image Date: Spring 2021
Image Source: City of Winnipeg, 2022

Drawn By: SLD/JDC
Reviewed By: JB/GSK

Ref: 10-12553
Date: 10-Feb-2022

PARSONS

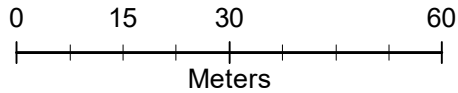
Drawing No.:
6.25 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Riverview C.C

(Riverview)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

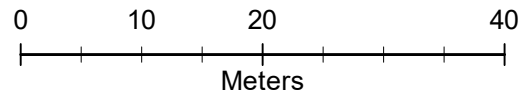
Drawing No.:
6.25 (6)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Riverview school (N-6)

(Riverview)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.25 (7)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 20 40 80

Meters

Soil Analytical Results – Lead (mg/kg)

John Shaley Tot Lot / Sinclair Park C.C

(Robertson)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.26 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F (Robertson)_RB-JY.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)
John Yuzyk Park-Sinclair Park C.C
-Robertson Site
(Robertson)
Winnipeg, MB

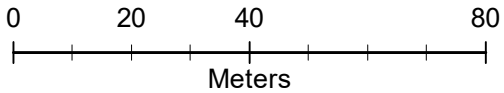
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.26 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - BOLD** - Equals to or exceeds Intrinsic criterion
 - BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Lansdowne school (N-8)

(Robertson)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

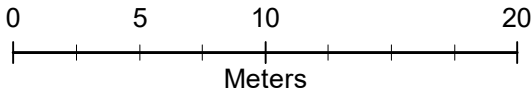
Drawing No.:
6.26 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Polson Bay Park-4

(Robertson)

Winnipeg, MB

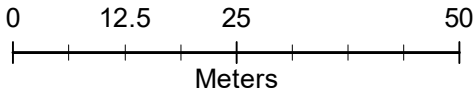
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.26 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Robertson school (N-6)
(Robertson)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.26 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Clifton Bay Park-3

(Sargent Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.: **6.27 (1)**

Document Path: C:\Z_Drive\10-1-2553M\XD\Final2022\F_0_All_Excel_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Clifton school (N-6)

(Sargent Park)

Winnipeg, MB

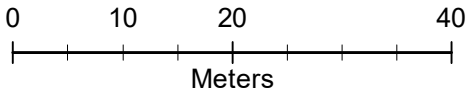
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.27 (2)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Principal Sparling school (N-6)

(Sargent Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.27 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Excel_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

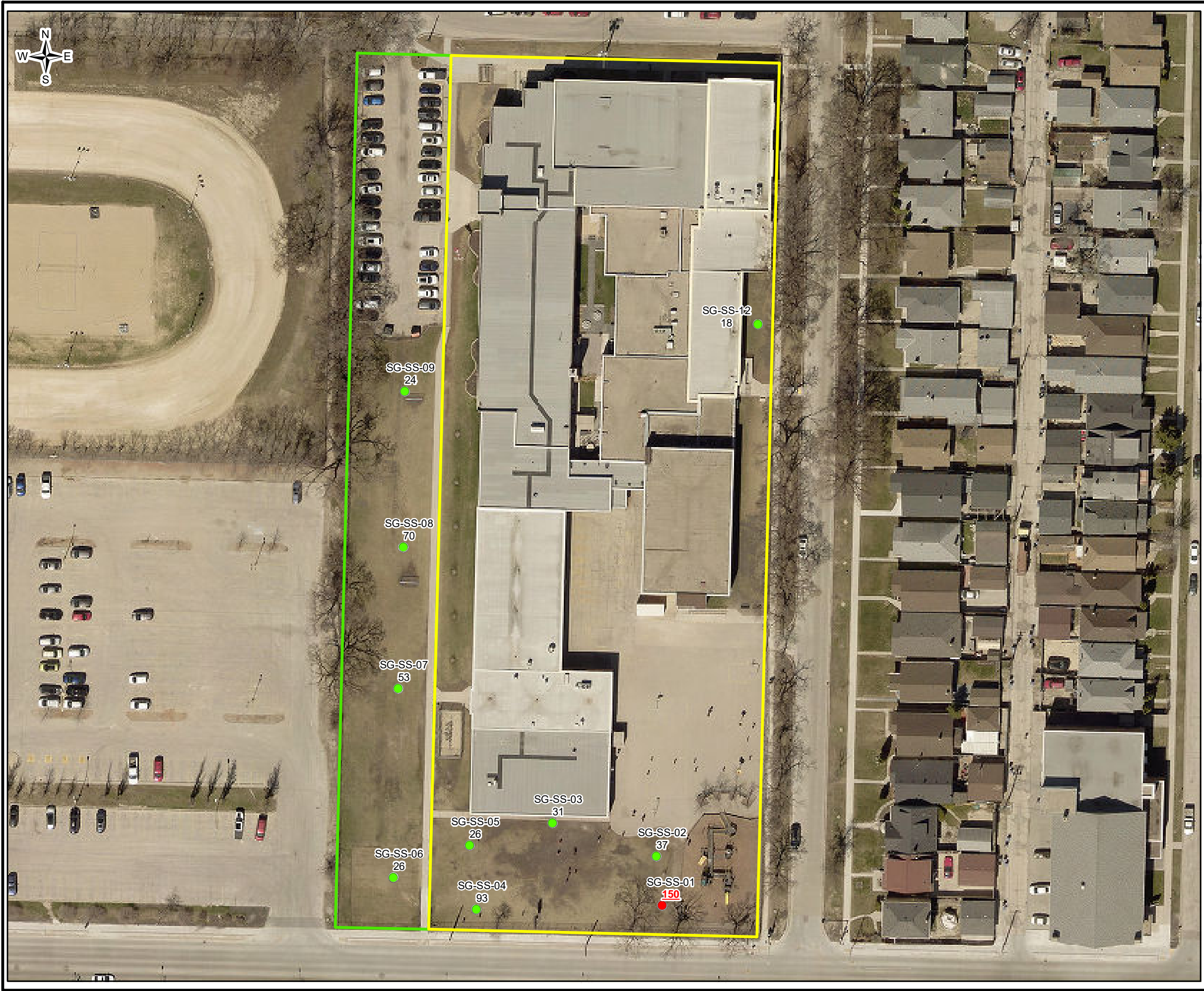
0 25 50 100
Meters

Soil Analytical Results – Lead (mg/kg)

Sargent Park
(Sargent Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.27 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 12.5 25 50
Meters

Soil Analytical Results – Lead (mg/kg)

Sargent Park school (N-9)

(Sargent Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.27 (5)

Document Path: C:\Z_Drive\10-1-2553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 40 80 160

Meters

Soil Analytical Results – Lead (mg/kg)

Valour C.C-Clifton Site

(Sargent Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.27 (6)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 15 30 60
Meters

Soil Analytical Results – Lead (mg/kg)

Lord Nelson school (N-6)

(Shaughnessy Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

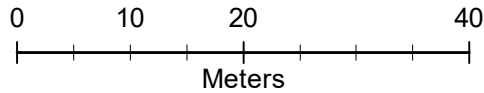
Drawing No.: **6.28 (1)**

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

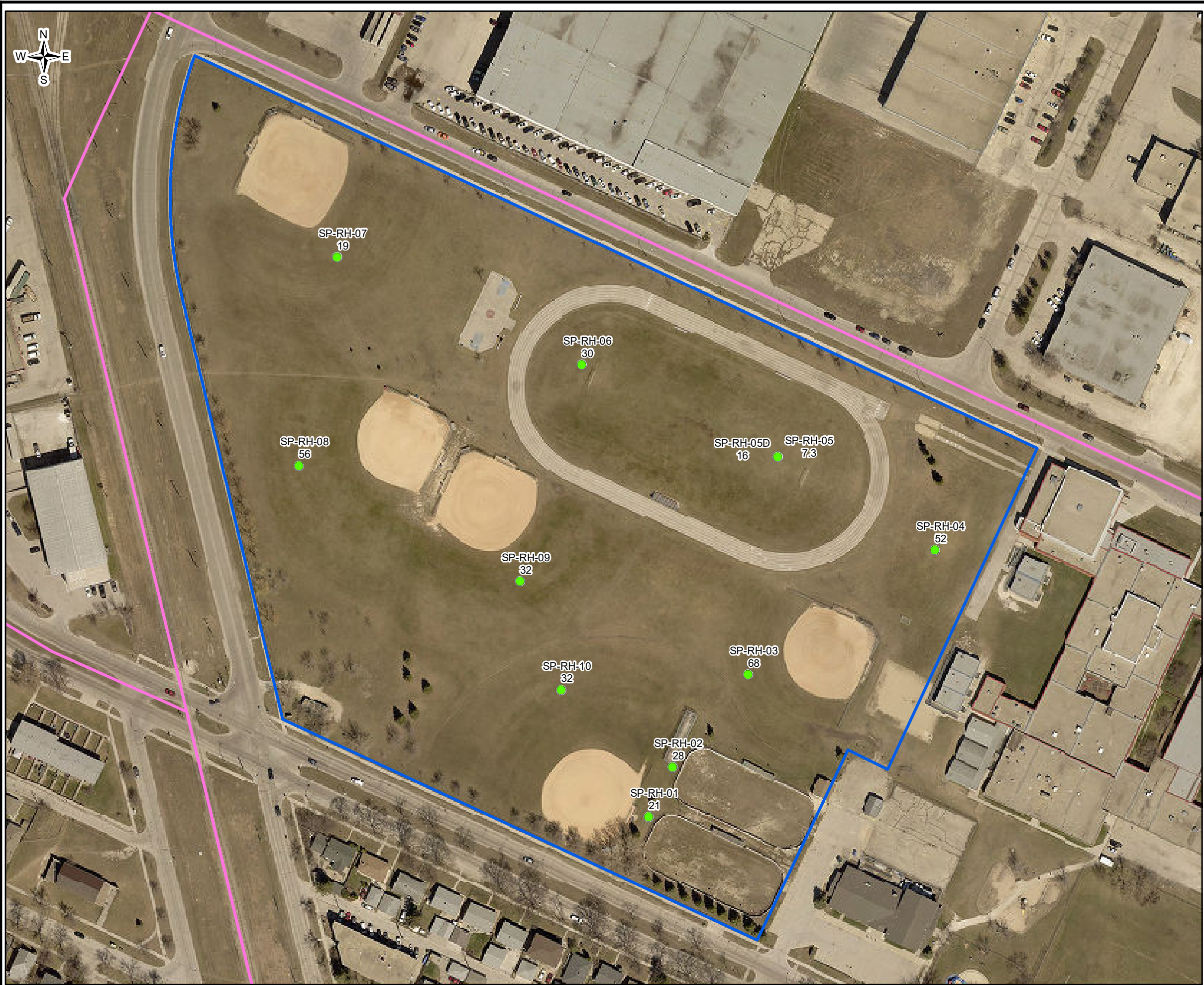
Northwood C.C
(Shaughnessy Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

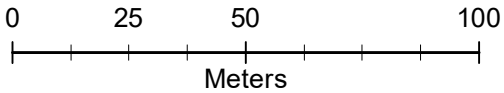
Drawing No.:
6.28 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



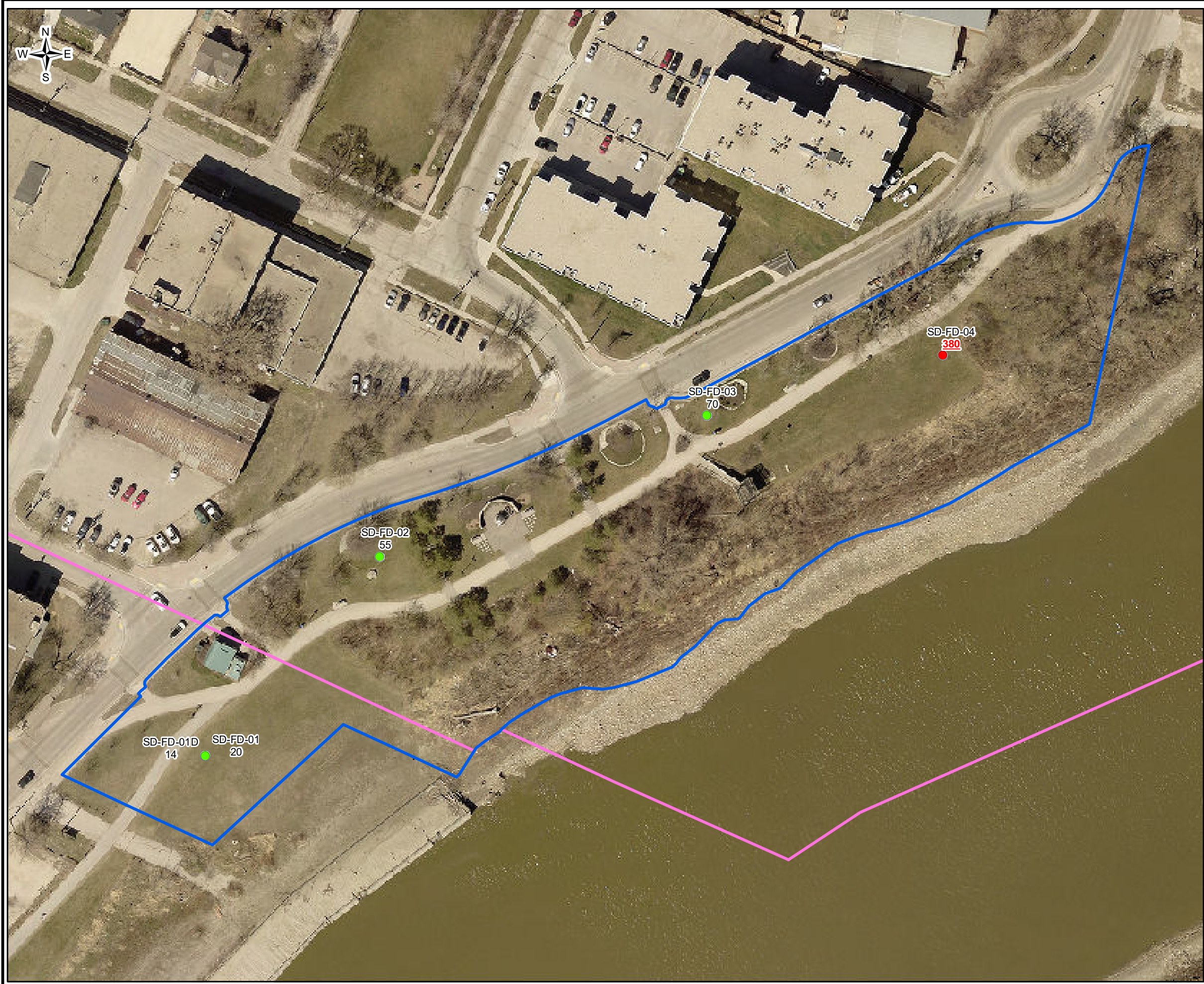
Soil Analytical Results – Lead (mg/kg)
Rick Hudson Park
(Shaughnessy Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.28 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Fort Douglas Park

(South Point Douglas)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

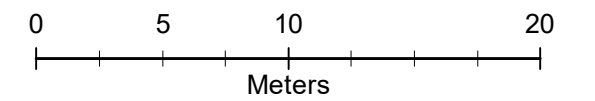
6.29 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Grace Street Tot Lot
(South Point Douglas)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

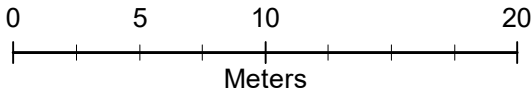
Drawing No.:
6.29 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

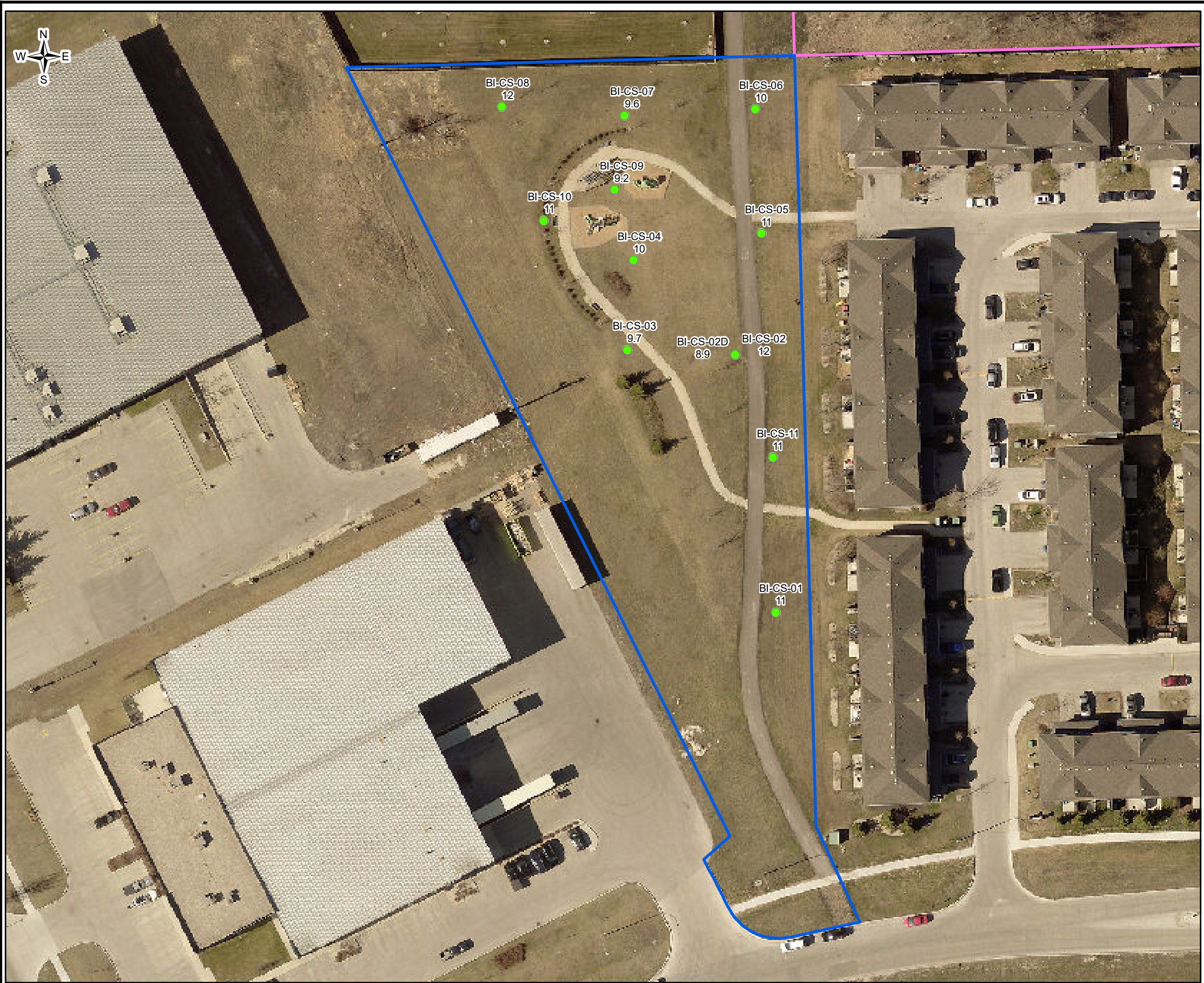
- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
William Whyte Park
(South Point Douglas)
Winnipeg, MB

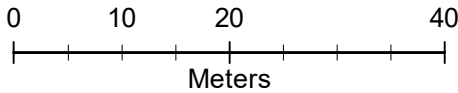
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.29 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Camiel Sys Park

(St. Boniface Industrial Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.30 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 37.5 75 150

Meters

Soil Analytical Results – Lead (mg/kg)

Mazenod Park

(St. Boniface Industrial Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.30 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)

McLeans Pumping Station

(St. Boniface Industrial Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.: 6.30 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_ (St. Boniface Industrial Park)_ BI-SP.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)

Shady Shores Park

(St. Boniface Industrial Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 11-Feb-2022
PARSONS		Drawing No.: 6.30 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Andrews Tot Lot

(St. John's)

Winnipeg, MB

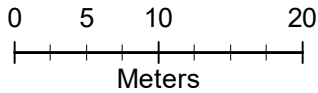
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.31 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Champlain school (N-6)
(St. John's)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

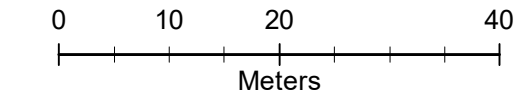
Drawing No.:
6.31 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Machray Park

(St. John's)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

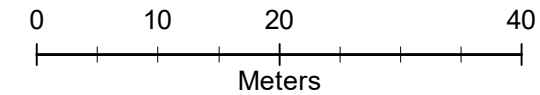
Drawing No.:
6.31 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Machray school (N-6)

(St. John's)

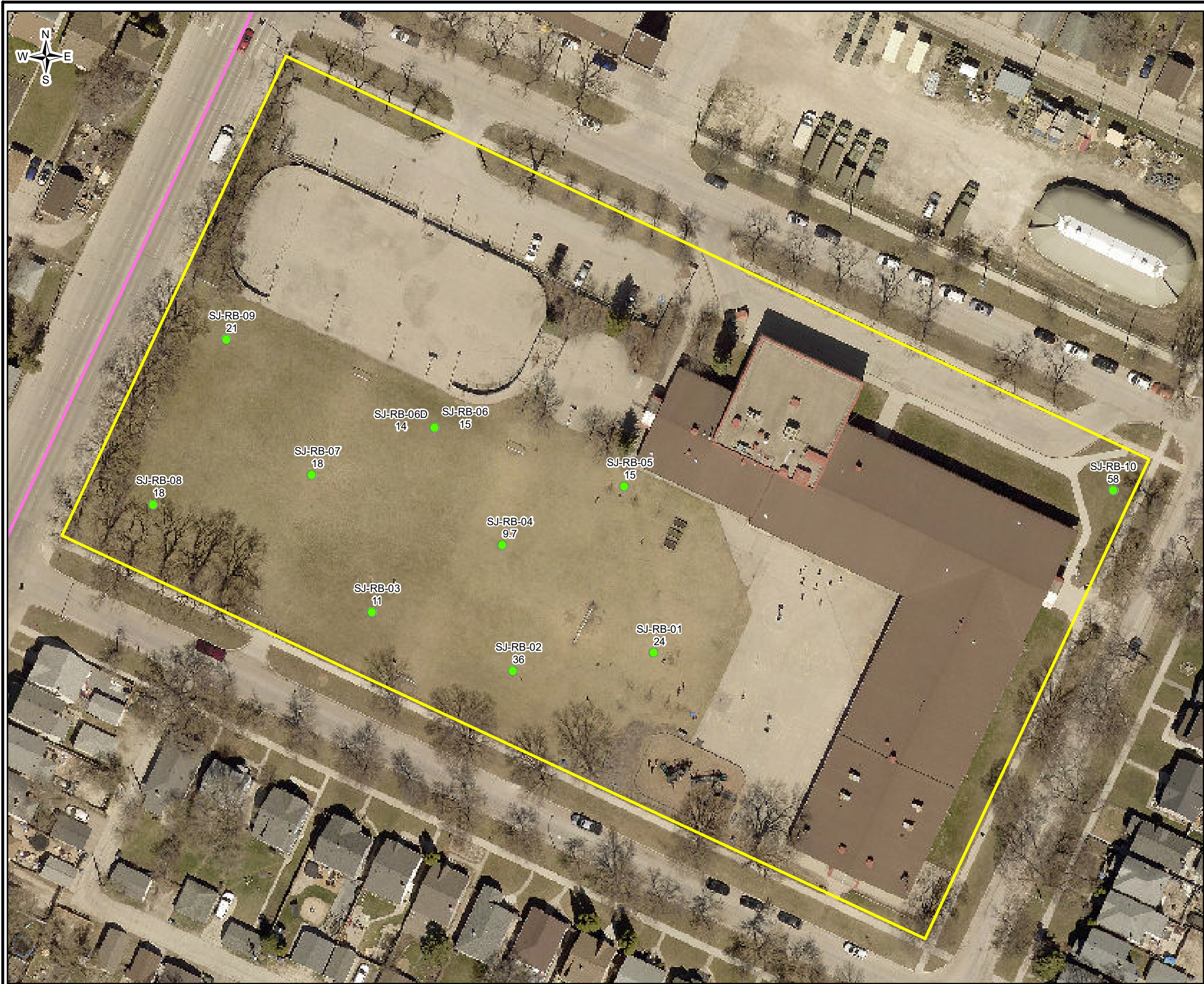
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.31 (4)

Document Path: C:\Z_Drive\10-12553\MMXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 10 20 40
Meters

Soil Analytical Results – Lead (mg/kg)

Ralph Brown school (N-8)

(St. John's)

Winnipeg, MB

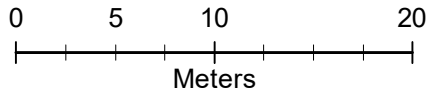
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.31 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - BOLD** - Equals to or exceeds Intrinsic criterion
 - BOLD** - Exceeds CCME criterion



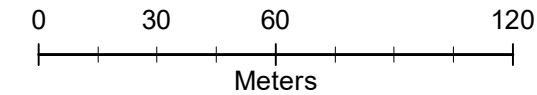
Soil Analytical Results – Lead (mg/kg)		
Salter Tot Lot		
(St. John's)		
Winnipeg, MB		
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.31 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

St. John's Park
(St. John's Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.32 (1)

Document Path: C:\Z_Drive\10-12553M\XDFinal\2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

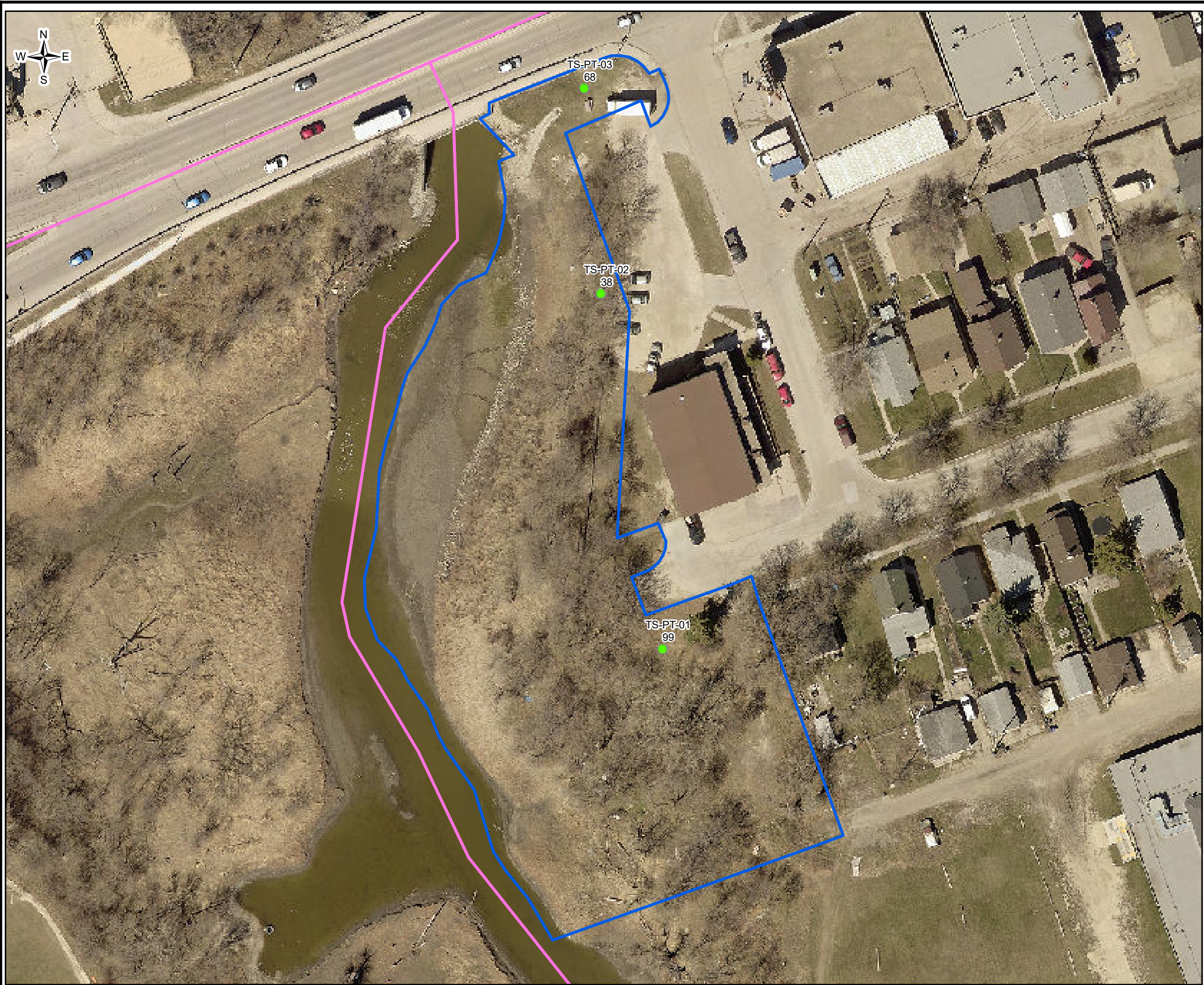
Archwood school (K-8)

(Stock Yards)

Winnipeg, MB

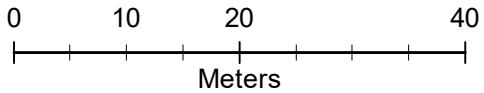
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.33 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Provencher-Tissot Riverbank
(Tissot)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.34 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

Soil Analytical Results – Lead (mg/kg)
Albina Fuga Park
(Tyndall Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)

Egesz Park

(Tyndall Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Fairgrove Window Park

(Tyndall Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.35 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Finestone Park

(Tyndall Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.: **6.35 (4)**

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Gainsborough Cove Tot Lot

(Tyndall Park)

Winnipeg, MB

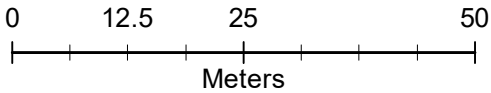
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Garden Grove Park
(Tyndall Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.35 (6)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 12.5 25 50
Meters

Soil Analytical Results – Lead (mg/kg)
Garden Grove school (N-6)
(Tyndall Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (7)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 15 30 60

Meters

Soil Analytical Results – Lead (mg/kg)

Kinver Park

(Tyndall Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

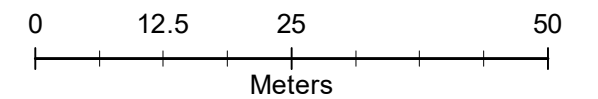
6.35 (8)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

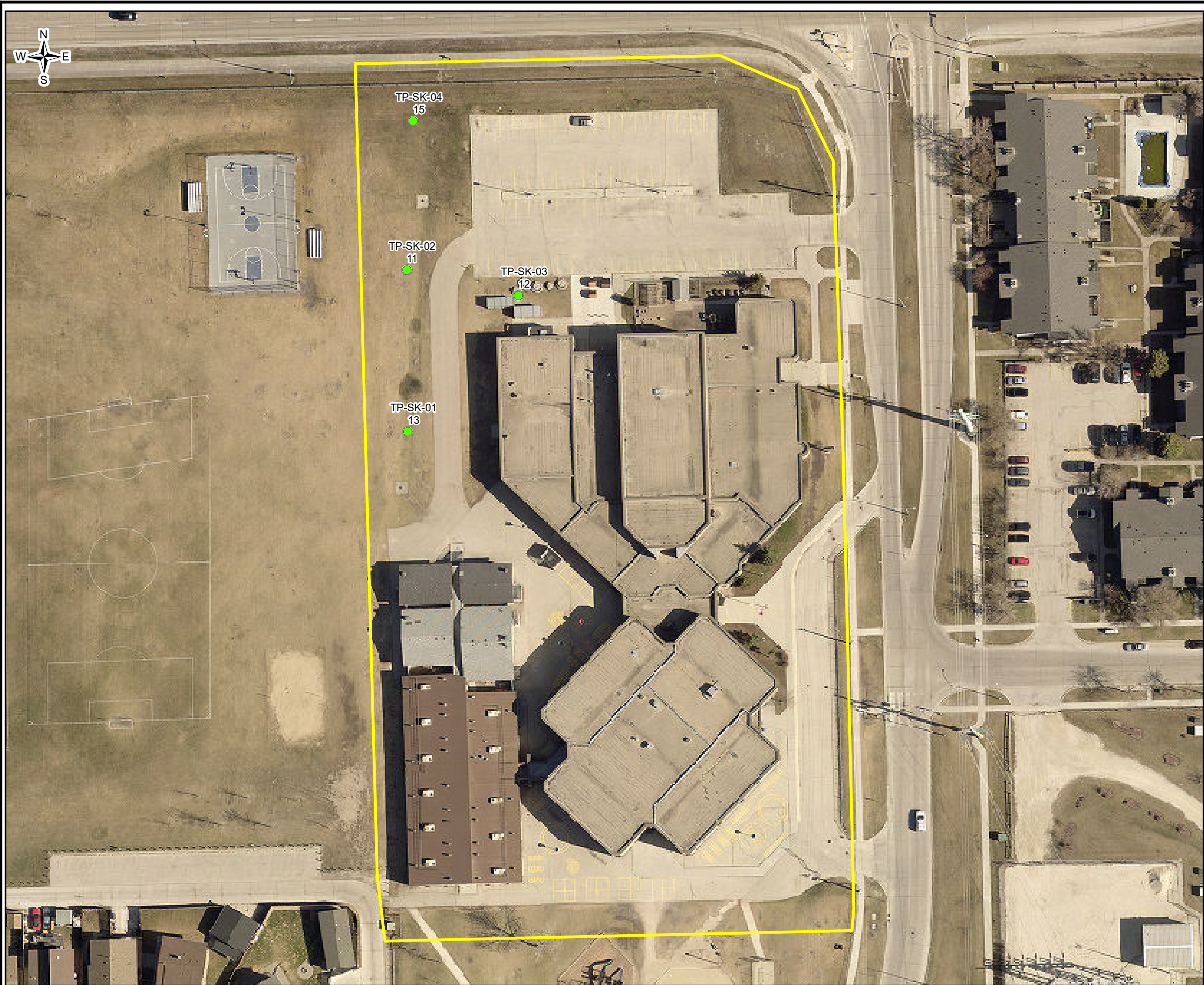


Soil Analytical Results – Lead (mg/kg)
Prairie Rose school (N-6)
(Tyndall Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

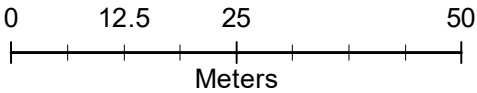
PARSONS

Drawing No.:
6.35 (9)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



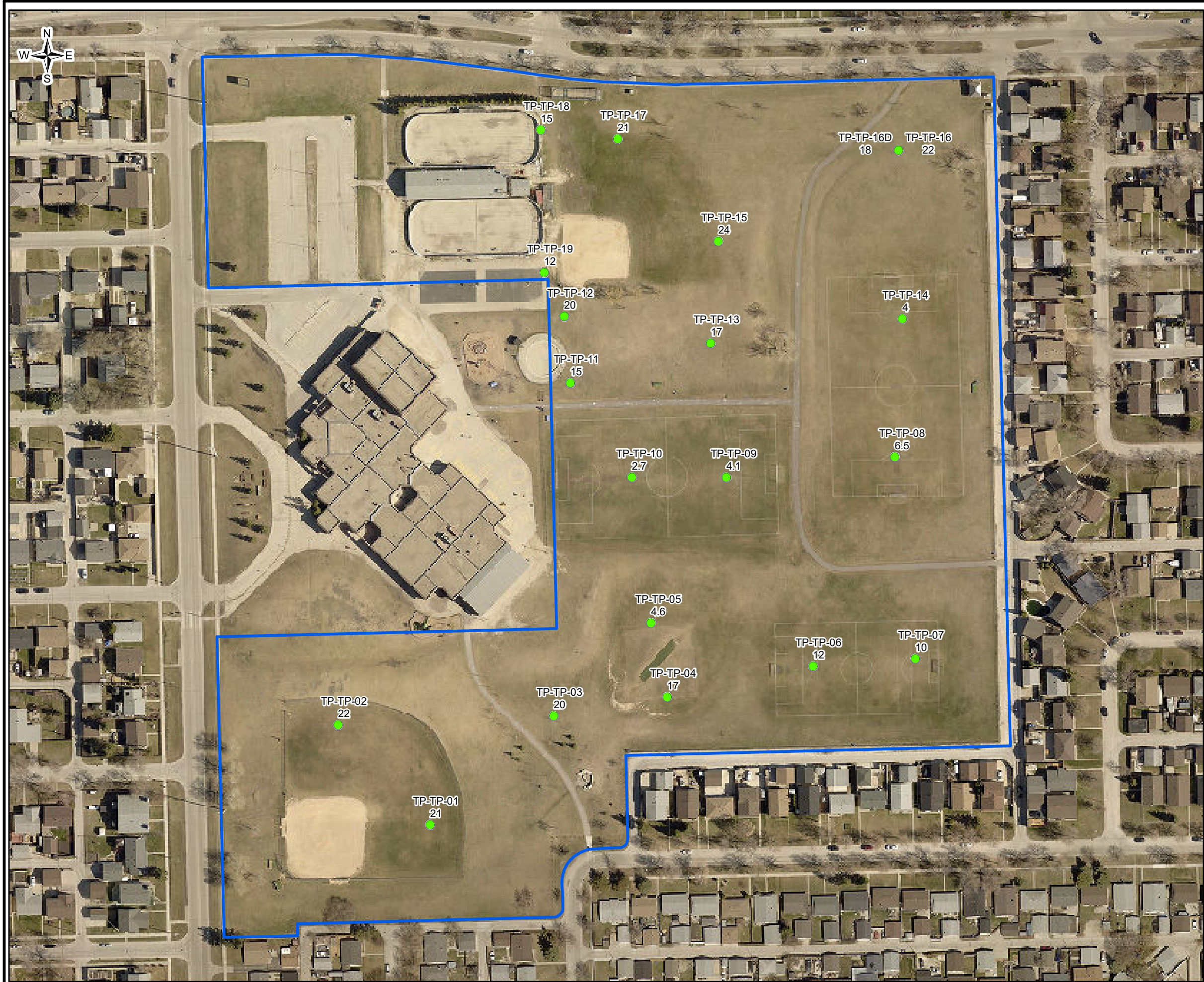
Soil Analytical Results – Lead (mg/kg)
Stanley Knowles school (N-8)
(Tyndall Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

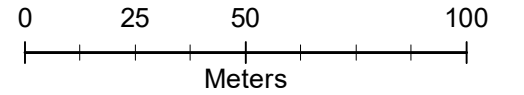
Drawing No.:
6.35 (10)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Excel_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Tyndall Park C.C

(Tyndall Park)

Winnipeg, MB

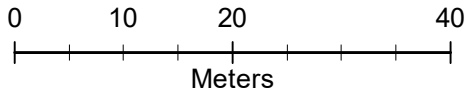
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (11)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

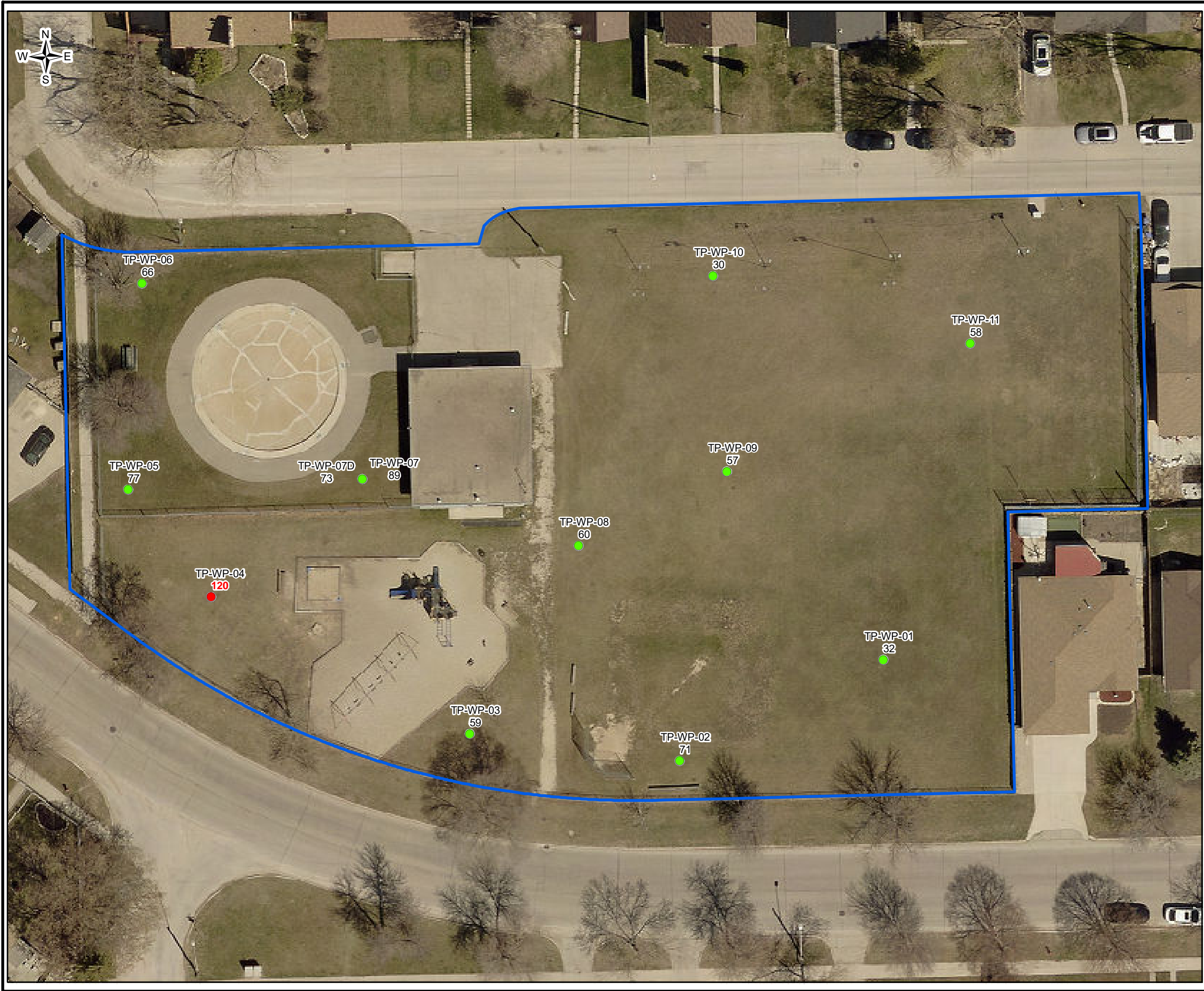
- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Tyndall Park school (N-6)
(Tyndall Park)
Winnipeg, MB

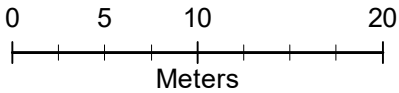
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (12)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Walsall Park

(Tyndall Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.35 (13)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Campion Tot Lot

(Weston)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

6.36 (1)

Document Path: C:\Z_Drive\10-1-2553MXD\Final2022\F_ (Weston)_WT-CR.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 15 30 60
Meters

Soil Analytical Results – Lead (mg/kg)
Cecil Rhodes school (N-9) and
Adolescent Parent Centre (9-12)
(Weston)
Winnipeg, MB

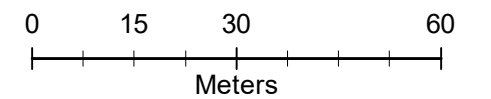
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 11-Feb-2022
PARSONS		Drawing No.: 6.36 (2)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Pascoe Playground

(Weston)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.36 (3)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 12.5 25 50

Meters

Soil Analytical Results – Lead (mg/kg)

Stanley Knowles Park

(Weston)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.36 (4)



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 20 40 80
Meters

Soil Analytical Results – Lead (mg/kg)

Weston Memorial C.C

(Weston)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.36 (5)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

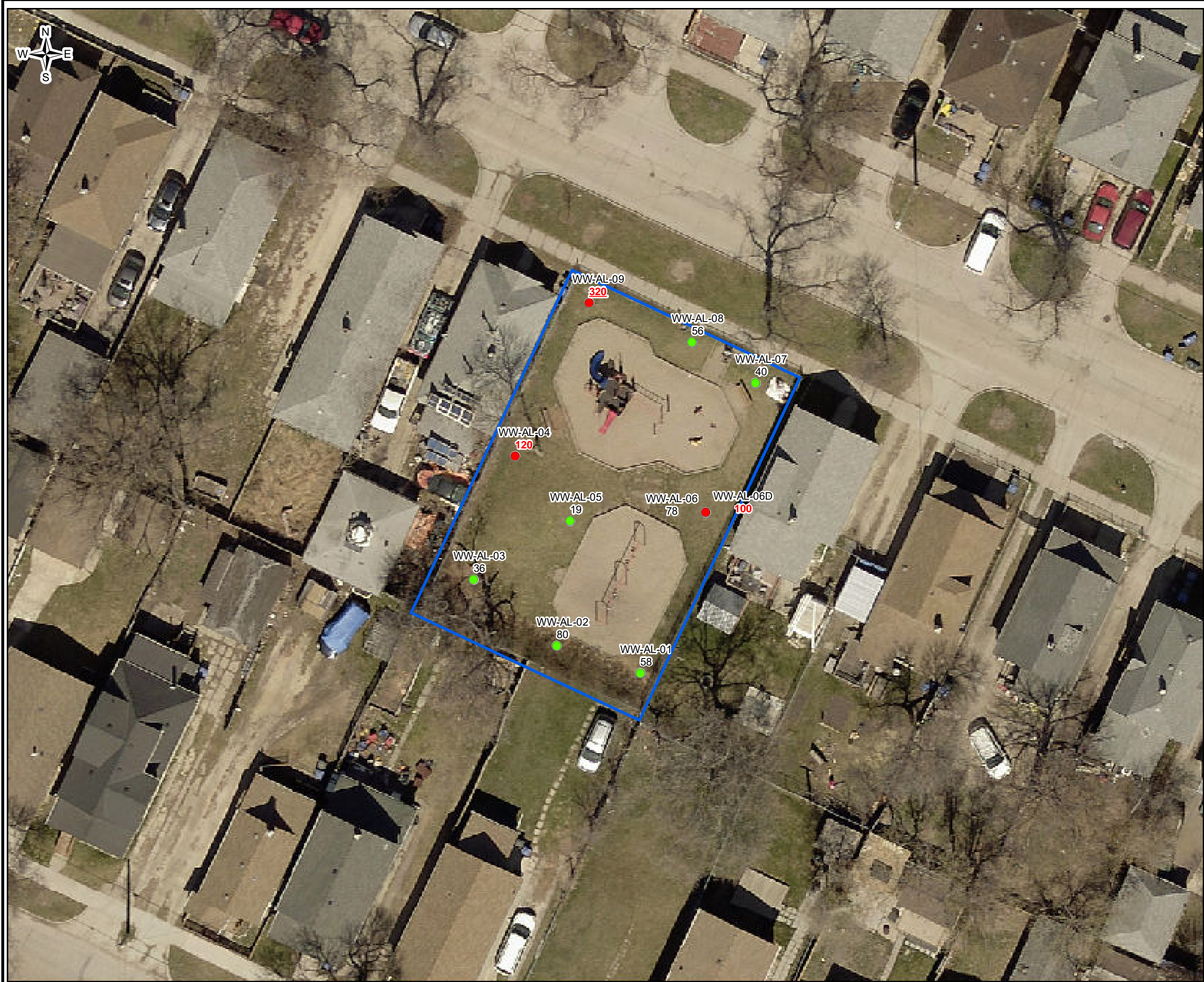
Weston Park

(Weston)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.36 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Alfred Tot Lot

(William Whyte)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

6.37 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Pritchard Playground

(William Whyte)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

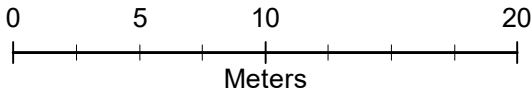
Drawing No.:
6.37 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Rejoice Fun Park

(William Whyte)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.37 (3)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 10 20 40
Meters

Soil Analytical Results – Lead (mg/kg)

Strathcona school (N-6)

(William Whyte)

Winnipeg, MB

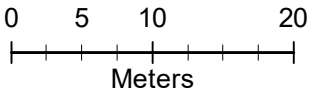
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.37 (4)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
William Whyte school (N-8)
(William Whyte)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.37 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Agate Park
(Windsor Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.38 (1)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Applewood Park

(Windsor Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.38 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

Soil Analytical Results – Lead (mg/kg)

Baudoux Place Park

(Windsor Park)

Winnipeg, MB

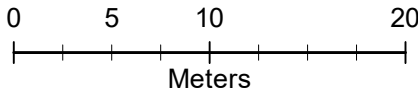
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.38 (3)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Crestwood Park
(Windsor Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

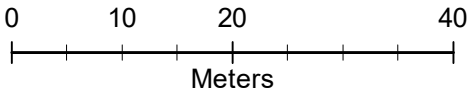
Drawing No.:
6.38 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Durham Park

(Windsor Park)

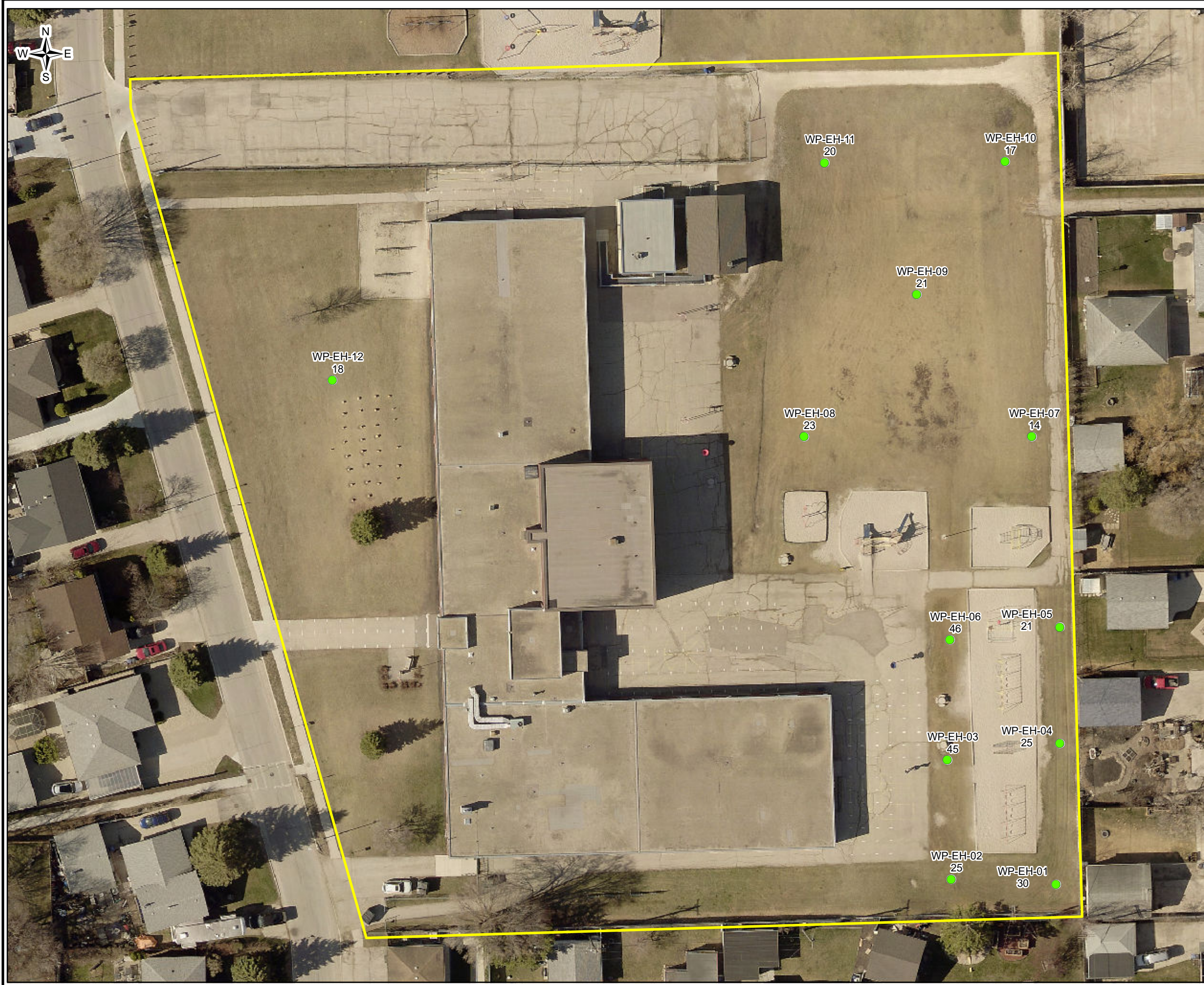
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.38 (5)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_Windsor Park_WP-EH.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

École Howden (K-6)

(Windsor Park)

Winnipeg, MB

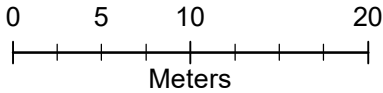
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.38 (6)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_(Windsor Park)_WP-EL.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



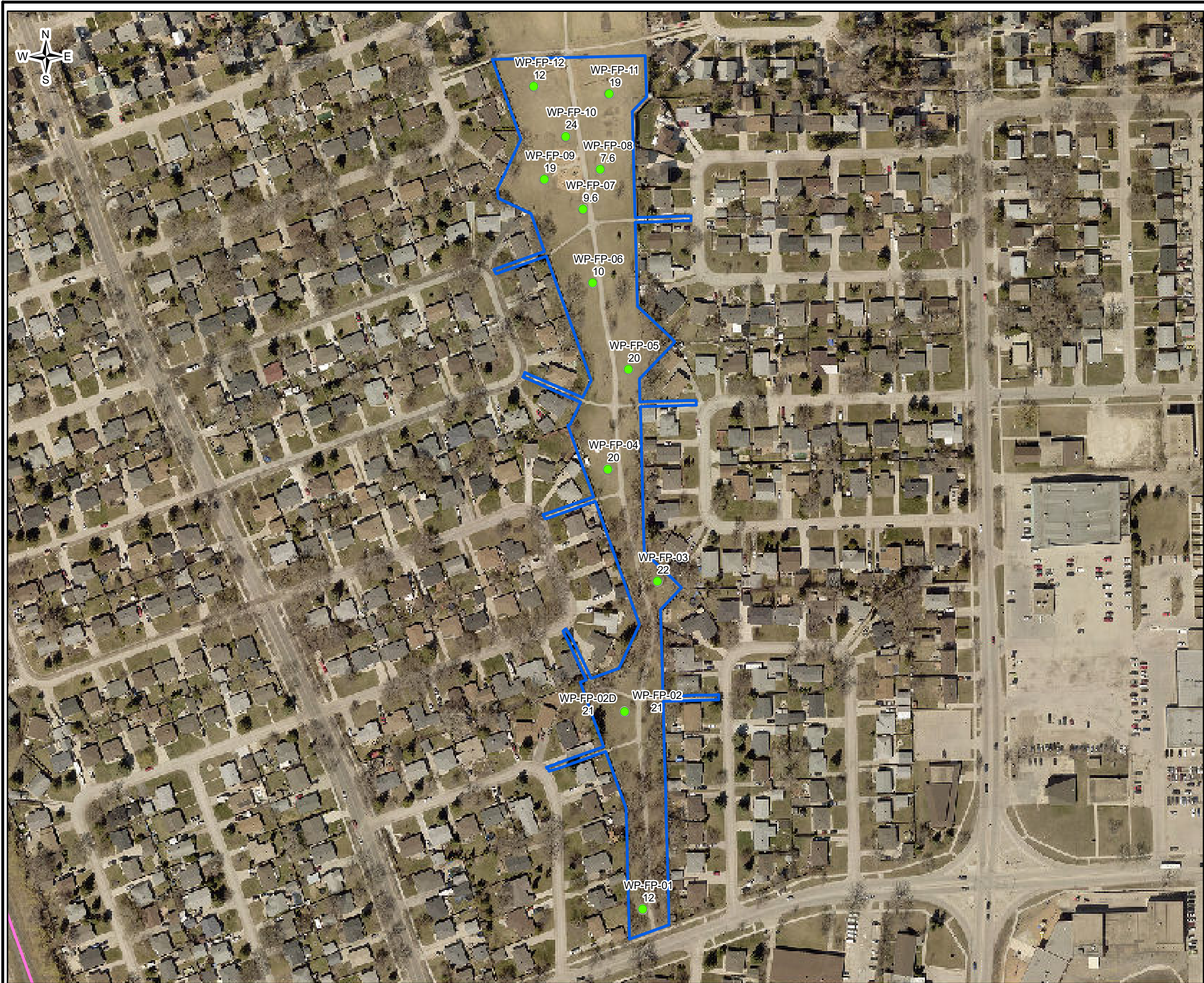
Soil Analytical Results – Lead (mg/kg)
École Lacerte (K-8)
(Windsor Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.38 (7)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion

0 37.5 75 150
Meters

Soil Analytical Results – Lead (mg/kg)

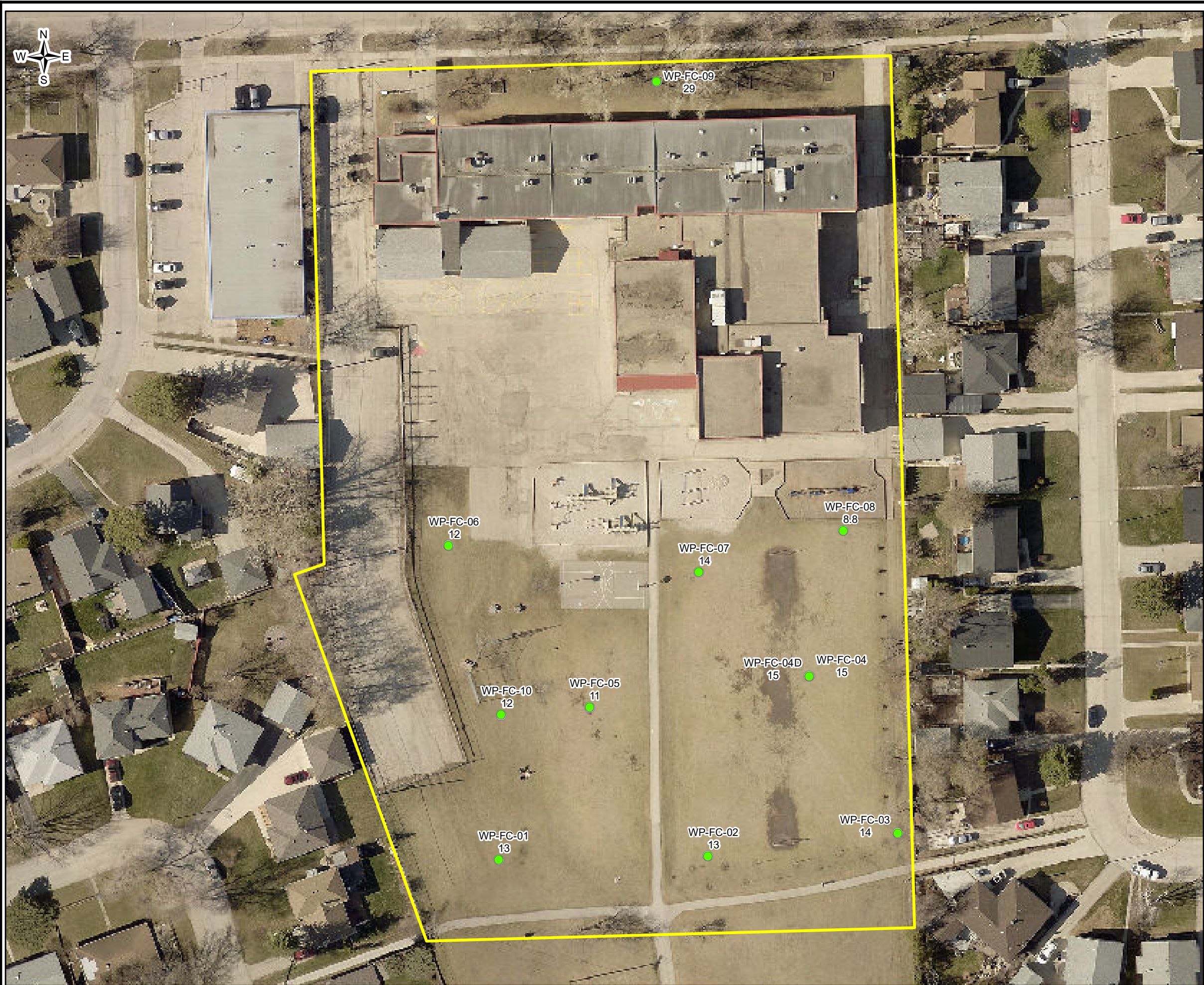
Frontenac Park
(Windsor Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

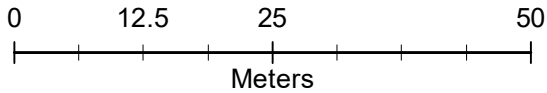
Drawing No.: **6.38 (8)**

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Frontenac school (K-8)

(Windsor Park)

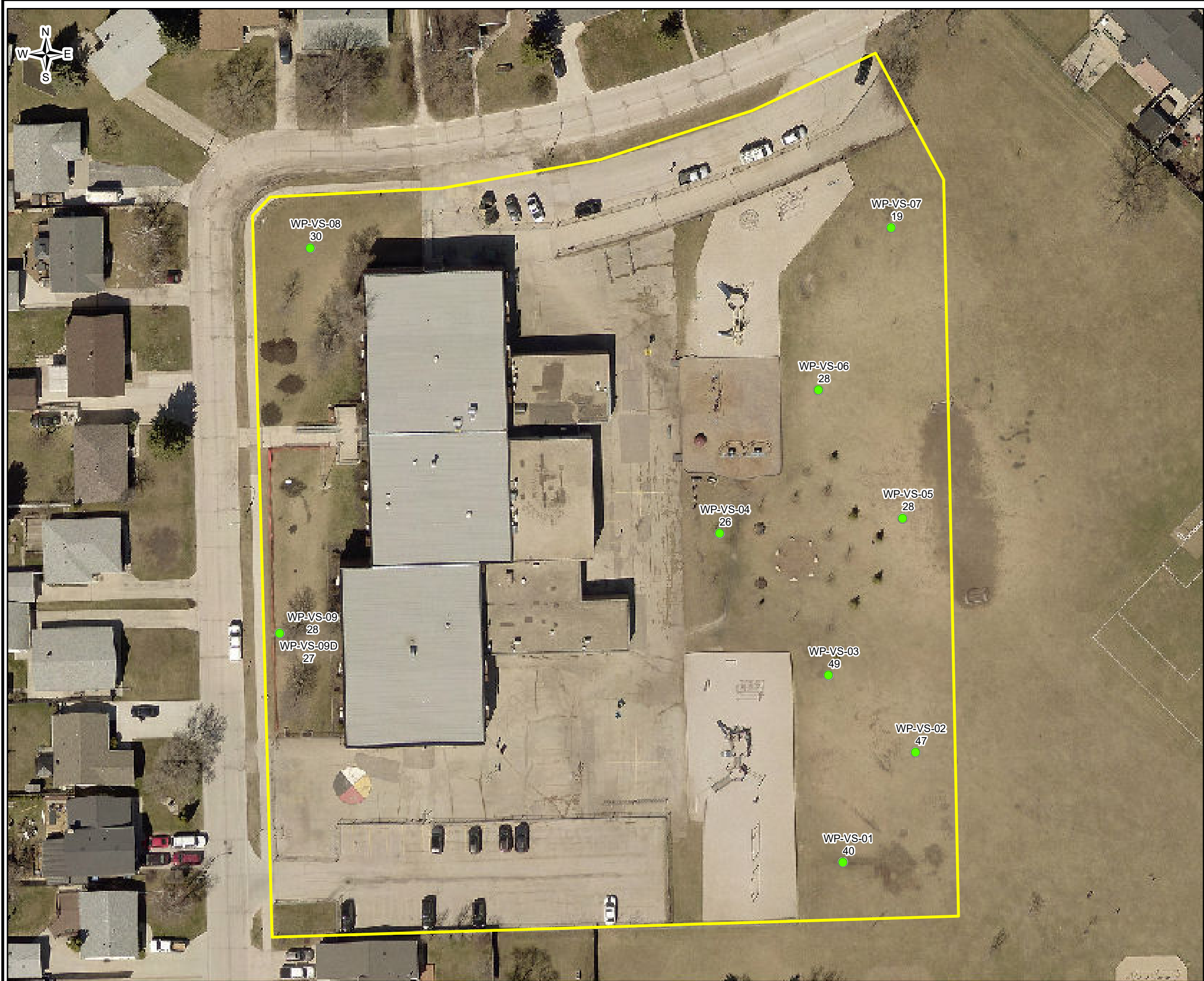
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.38 (9)

Document Path: C:\Z_Drive\10-12553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 10 20 40

Meters

Soil Analytical Results – Lead (mg/kg)

General Vanier school (K-8)

(Windsor Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

6.38 (10)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

Soil Analytical Results – Lead (mg/kg)

Howden Park

(Windsor Park)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.38 (11)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

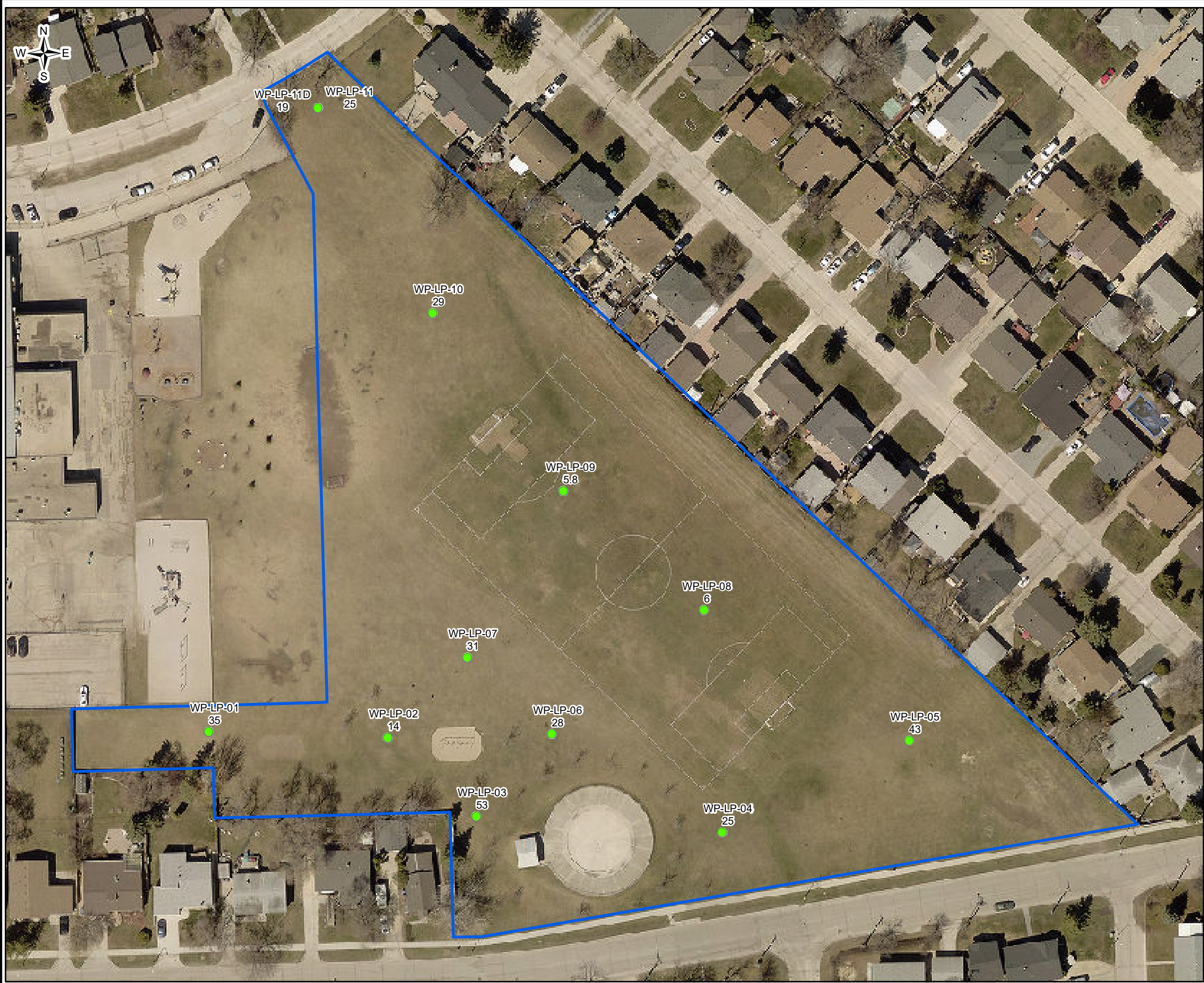
0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Jubinville Park
(Windsor Park)
Winnipeg, MB

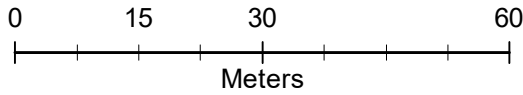
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.38 (12)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Lomond Park
(Windsor Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

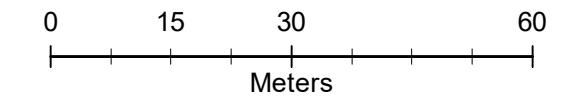
Drawing No.:
6.38 (13)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - Park boundary
 - School boundary
 - City property adjacent school
 - Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
EE-RR-01 - Sample ID ("D" denotes duplicate)
BOLD - Equals to or exceeds Intrinsic criterion
BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Vincent Massey Park
(Windsor Park)
Winnipeg, MB

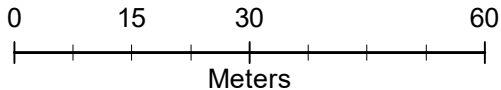
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Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.38 (14)

Document Path: C:\Z_Drive\10-1-2553M\XD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Westmount Park

(Windsor Park)

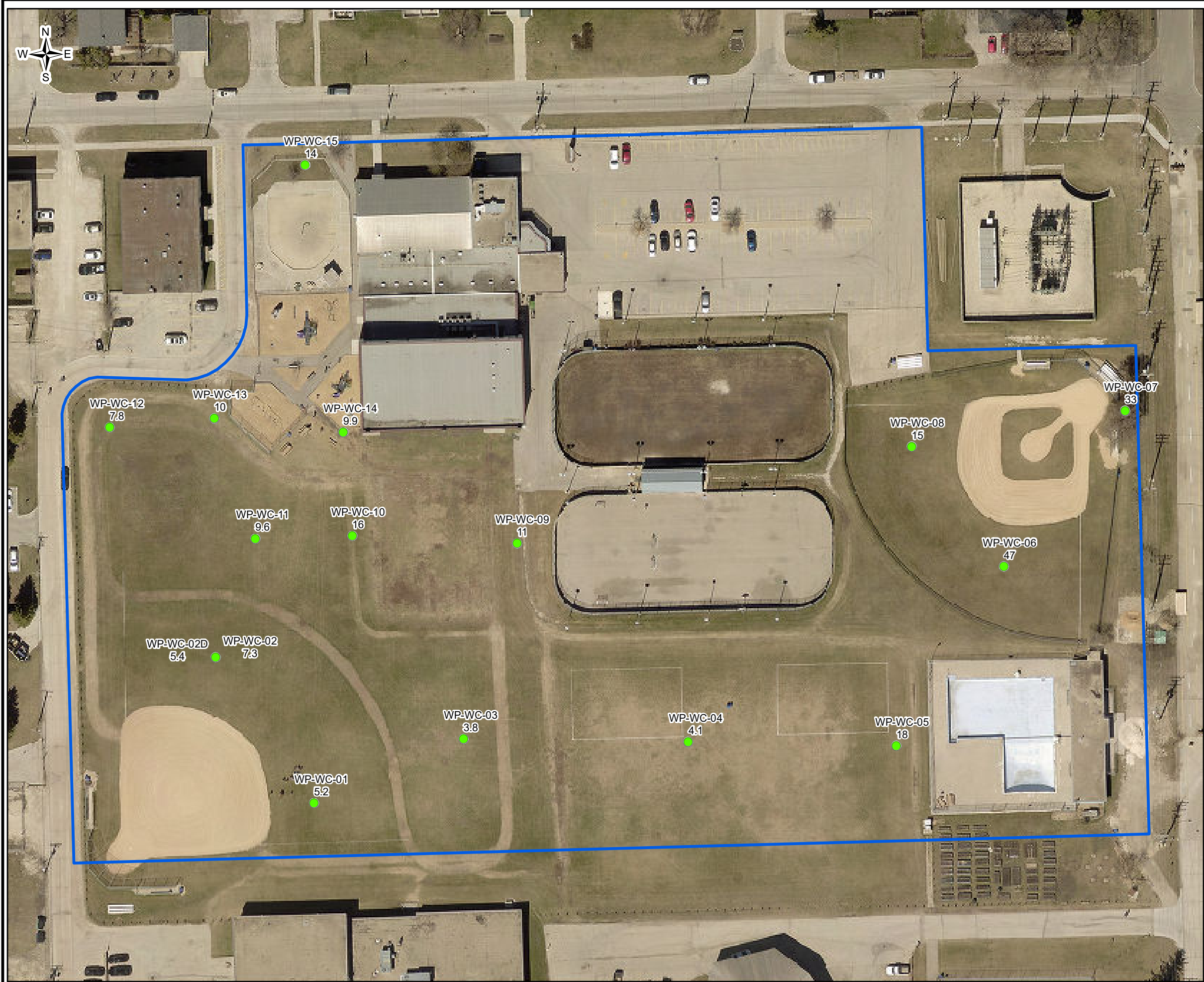
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.38 (15)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 12.5 25 50
Meters

Soil Analytical Results – Lead (mg/kg)

Winakwa C.C
(Windsor Park)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.: **6.38 (16)**

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- Park boundary
- School boundary
- City property adjacent school
- Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- BOLD** - Equals to or exceeds Intrinsic criterion
- BOLD** - Exceeds CCME criterion

0 5 10 20

Meters

Soil Analytical Results – Lead (mg/kg)

Aubrey Playground

(Wolseley)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:

6.39 (1)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

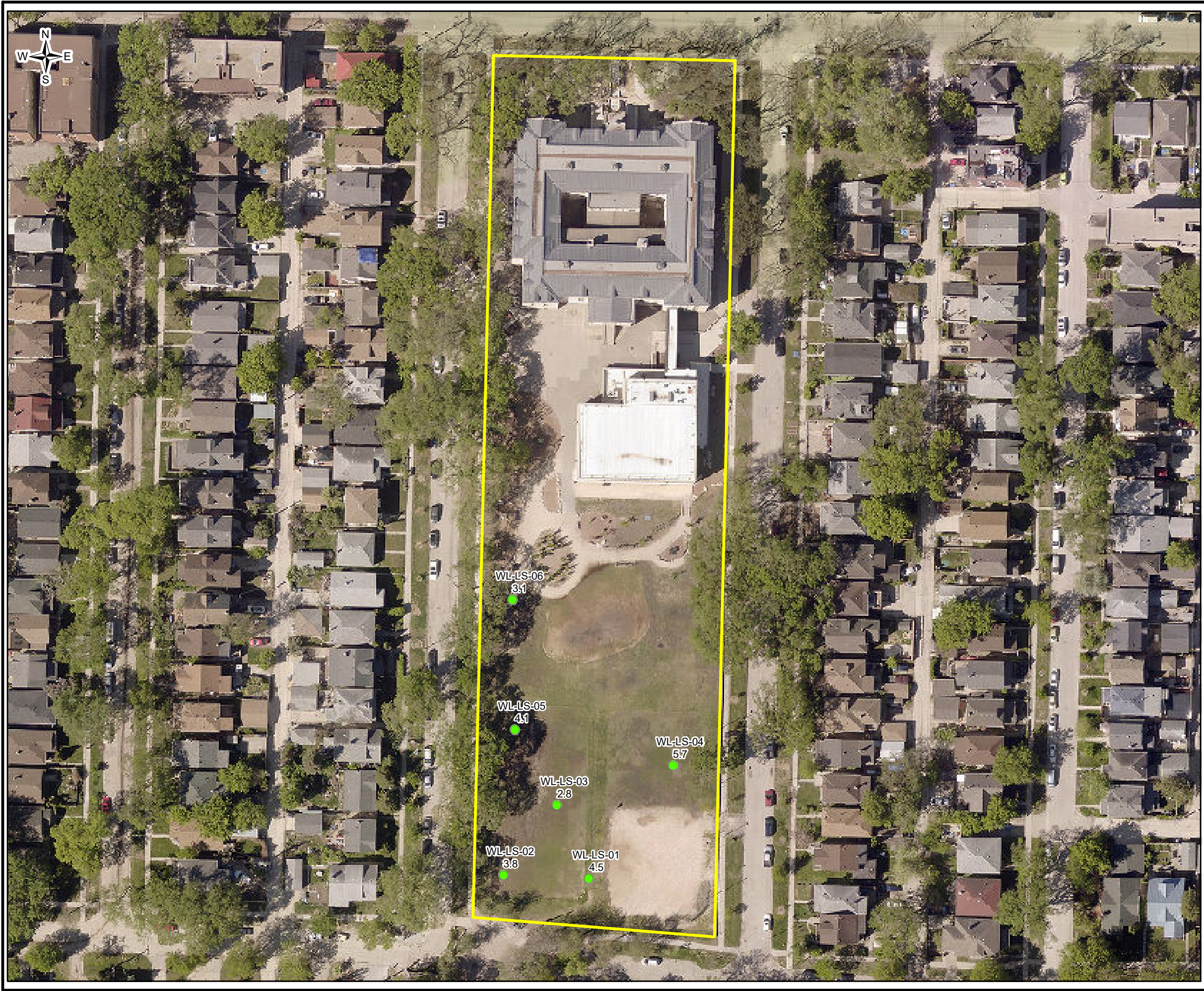
Greenwood Park

(Wolseley)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.39 (2)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 15 30 60
Meters

Soil Analytical Results – Lead (mg/kg)

Laura Secord school (N-6)

(Wolseley)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.39 (3)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest

■ 55 - Lead concentration (mg/kg)
■ EE-RR-01 - Sample ID ("D" denotes duplicate)
■ **BOLD** - Equals to or exceeds Intrinsic criterion
■ **BOLD** - Exceeds CCME criterion

0 5 10 20
Meters

Soil Analytical Results – Lead (mg/kg)

Mulvey school (N-6)

(Wolseley)

Winnipeg, MB

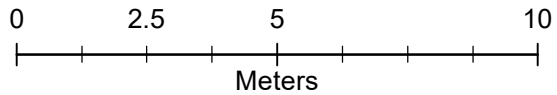
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.39 (4)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_(Wolseley)_WL-NT.mxd



LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsik criterion
- BOLD - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Nick Ternette Memorial Park

(Wolseley)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.39 (5)

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LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion

Soil Analytical Results – Lead (mg/kg)
Robert A. Steen Memorial C.C
(Wolseley)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

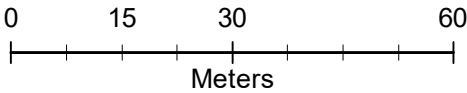
PARSONS
6.39 (6)

Document Path: C:\Z_Drive\10-12553\MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)
Vimy Ridge Memorial Park
(Wolseley)
Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

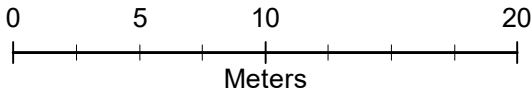
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6.39 (7)

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LEGEND

- Exceeds applicable criterion
- Less than applicable criterion
- ▭ Park boundary
- ▭ School boundary
- ▭ City property adjacent school
- ▭ Neighborhood of Interest
- 55 - Lead concentration (mg/kg)
- EE-RR-01 - Sample ID ("D" denotes duplicate)
- **BOLD** - Equals to or exceeds Intrinsic criterion
- **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Westminster Tot Lot

(Wolseley)

Winnipeg, MB

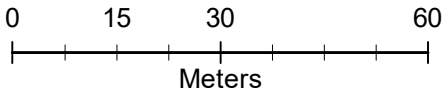
Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022
PARSONS		Drawing No.: 6.39 (8)

Document Path: C:\Z_Drive\10-12553MXD\Final2022\F_0_All_Exceed_Park.mxd



LEGEND

- Exceeds applicable criterion
 - Less than applicable criterion
 - ▭ Park boundary
 - ▭ School boundary
 - ▭ City property adjacent school
 - ▭ Neighborhood of Interest
-
- 55 - Lead concentration (mg/kg)
 - EE-RR-01 - Sample ID ("D" denotes duplicate)
 - **BOLD** - Equals to or exceeds Intrinsic criterion
 - **BOLD** - Exceeds CCME criterion



Soil Analytical Results – Lead (mg/kg)

Wolseley school (N-6)

(Wolseley)

Winnipeg, MB

Image Date: Spring 2021	Drawn By: SLD/JDC	Ref: 10-12553
Image Source: City of Winnipeg, 2022	Reviewed By: JB/GSK	Date: 10-Feb-2022

PARSONS

Drawing No.:
6.39 (9)

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA ^a			140								
CRITERIA ^b			100-210								
AB-SJ-01	0.025	2021/11/24	15	Airport	St. James Memorial Sports Park	C	-	5527753.1	627320.7	C193707	ALW121
AB-SJ-02	0.025	2021/11/24	34	Airport	St. James Memorial Sports Park	C	-	5527733.5	627381.4	C193707	ALW122
AB-SJ-03	0.025	2021/11/24	25	Airport	St. James Memorial Sports Park	C	-	5527727.3	627501.9	C193707	ALW123
AB-SJ-04	0.025	2021/11/24	45	Airport	St. James Memorial Sports Park	C	-	5527745.1	627575.9	C193707	ALW124
AB-SJ-05	0.025	2021/11/24	28	Airport	St. James Memorial Sports Park	C	-	5527768.3	627477.8	C193707	ALW125
AB-SJ-06	0.025	2021/11/24	20	Airport	St. James Memorial Sports Park	C	-	5527774.6	627411.7	C193707	ALW126
AB-SJ-07	0.025	2021/11/24	21	Airport	St. James Memorial Sports Park	C	-	5527874.5	627377	C193707	ALW127
AB-SJ-08	0.025	2021/11/24	22	Airport	St. James Memorial Sports Park	C	-	5527841.5	627416.2	C193707	ALW128
AB-SJ-09	0.025	2021/11/24	65	Airport	St. James Memorial Sports Park	C	-	5527836.1	627474.2	C193707	ALW129
AB-SJ-10	0.025	2021/11/24	190	Airport	St. James Memorial Sports Park	C	-	5527871.8	627514.3	C193707	ALW130
AB-SJ-11	0.025	2021/11/24	28	Airport	St. James Memorial Sports Park	C	-	5527862.9	627578.6	C193707	ALW131
AB-SJ-12	0.025	2021/11/24	39	Airport	St. James Memorial Sports Park	C	-	5527820.1	627629.4	C193707	ALW132
AB-SJ-13	0.025	2021/11/24	26	Airport	St. James Memorial Sports Park	C	-	5527803.1	627714.2	C193707	ALW133
AB-SJ-14	0.025	2021/11/24	29	Airport	St. James Memorial Sports Park	C	-	5527844.1	627703.5	C193707	ALW134
AB-SJ-15	0.025	2021/11/24	26	Airport	St. James Memorial Sports Park	C	-	5527879.8	627739.2	C193707	ALW135
AB-SJ-16	0.025	2021/11/24	12	Airport	St. James Memorial Sports Park	C	-	5527801.3	627782	C193707	ALW136
AB-SJ-17	0.025	2021/11/24	38	Airport	St. James Memorial Sports Park	C	-	5527846.8	627794.5	C193707	ALW137
AB-SJ-18	0.025	2021/11/24	21	Airport	St. James Memorial Sports Park	C	-	5527782.6	627873.9	C193707	ALW138
AB-SJ-19	0.025	2021/11/24	15	Airport	St. James Memorial Sports Park	C	-	5527805.8	627935.5	C193707	ALW139
AB-SJ-20	0.025	2021/11/24	6.5	Airport	St. James Memorial Sports Park	C	-	5527845	627881.9	C193707	ALW140
AB-SJ-20D (dup)	0.025	2021/11/24	7.7	Airport	St. James Memorial Sports Park	C	-	5527845	627881.9	C193707	ALW141
AB-SJ-21	0.025	2021/11/24	32	Airport	St. James Memorial Sports Park	C	-	5527878.9	627820.4	C193707	ALW142
AB-SJ-22	0.025	2021/11/24	29	Airport	St. James Memorial Sports Park	C	-	5527935.1	627782	C193707	ALW143
AB-SJ-23	0.025	2021/11/24	17	Airport	St. James Memorial Sports Park	C	-	5527944.1	627891.7	C193707	ALW144
AB-SJ-24	0.025	2021/11/24	51	Airport	St. James Memorial Sports Park	C	-	5527911.9	627943.5	C193707	ALW145
AB-LS-01	0.025	2021/11/24	21	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527529.1	625683	C193705	ALW080
AB-LS-02	0.025	2021/11/24	22	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527529	625647.7	C193705	ALW081
AB-LS-03	0.025	2021/11/24	77	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527532.1	625609.4	C193705	ALW082
AB-LS-04	0.025	2021/11/24	18	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527565	625614.3	C193705	ALW083
AB-LS-05	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527563.5	625655.5	C193705	ALW084
AB-LS-06	0.025	2021/11/24	15	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527568.5	625682.4	C193705	ALW085
AB-LS-07	0.025	2021/11/24	21	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527596	625685.2	C193705	ALW086
AB-LS-08	0.025	2021/11/24	19	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527596	625653.8	C193705	ALW087
AB-LS-09	0.025	2021/11/24	17	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527597.3	625612.4	C193705	ALW088
AB-LS-10	0.025	2021/11/24	19	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527631.7	625620.5	C193705	ALW089
AB-LS-11	0.025	2021/11/24	20	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527632.8	625653.6	C193705	ALW090
AB-LS-12	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Leicester Square Playground	C	-	5527625.6	625681.9	C193705	ALW091
AB-LP-01	0.025	2021/11/24	28	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527550	625063.3	C193705	ALW092
AB-LP-02	0.025	2021/11/24	20	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527551.7	625035.3	C193705	ALW093
AB-LP-03	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527556.3	625006.2	C193705	ALW094
AB-LP-04	0.025	2021/11/24	24	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527590.9	625007.1	C193705	ALW095
AB-LP-05	0.025	2021/11/24	16	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527585.5	625036.5	C193705	ALW096
AB-LP-06	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527583.8	625064.7	C193705	ALW097
AB-LP-06D (dup)	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527583.8	625064.7	C193705	ALW098
AB-LP-07	0.025	2021/11/24	20	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527616.2	625065.8	C193705	ALW099
AB-LP-08	0.025	2021/11/24	12	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527615.4	625027.1	C193705	ALW100
AB-LP-09	0.025	2021/11/24	26	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527631.7	625007.9	C193705	ALW101
AB-LP-10	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527639.2	625047.2	C193705	ALW102
AB-LP-11	0.025	2021/11/24	17	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527652.6	625069.5	C193705	ALW103
AB-LP-12	0.025	2021/11/24	25	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527659.9	625040.1	C193705	ALW104
AB-LP-13	0.025	2021/11/24	26	Airport Buffer (Jameswood)	Listowel Playground	C	-	5527660.7	625009.2	C193705	ALW105
AB-CP-01	0.025	2021/11/24	40	Airport Buffer (King Edward)	Collegiate Park	C	-	5527877.1	628133.8	C193705	ALW106

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsik Corp., Nov. 29, 2019.

c - WSD: Winnipeg School Division, DS: Division Scolaire Franco-Manitobaine, LR: Louis Riel School Division, SJ: St. James Assiniboia School Division, IS: independent school.

d - GPS coordinates are in NAD 83/Zone 14.

"-" - Not applicable

(dup) - Duplicate

mbgs - metres below ground surface

(re-run) - Sample re-run by laboratory on original soil

C [in use by SJ] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsik criterion

BOLD - Exceeds applicable CCME criterion

Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
			140								
CRITERIA ^a			100-210								
CRITERIA ^b											
AB-CP-02	0.025	2021/11/24	12	Airport Buffer (King Edward)	Collegiate Park	C	-	5527878.3	628120.8	C193705	ALW107
AB-CP-03	0.025	2021/11/24	14	Airport Buffer (King Edward)	Collegiate Park	C	-	5527879.2	628107.3	C193705	ALW108
AB-CP-04	0.025	2021/11/24	11	Airport Buffer (King Edward)	Collegiate Park	C	-	5527893.8	628107.4	C193705	ALW109
AB-CP-05	0.025	2021/11/24	12	Airport Buffer (King Edward)	Collegiate Park	C	-	5527886.6	628119.1	C193705	ALW110
AB-CP-06	0.025	2021/11/24	11	Airport Buffer (King Edward)	Collegiate Park	C	-	5527897.2	628134.1	C193705	ALW111
AB-CP-07	0.025	2021/11/24	22	Airport Buffer (King Edward)	Collegiate Park	C	-	5527900	628113	C193705	ALW112
AB-CP-08	0.025	2021/11/24	14	Airport Buffer (King Edward)	Collegiate Park	C	-	5527908.1	628132	C193705	ALW113
AB-CP-09	0.025	2021/11/24	38	Airport Buffer (King Edward)	Collegiate Park	C	-	5527914	628136.8	C193705	ALW114
AB-CP-10	0.025	2021/11/24	10	Airport Buffer (King Edward)	Collegiate Park	C	-	5527914.6	628122.8	C193705	ALW115
AB-CP-11	0.025	2021/11/24	13	Airport Buffer (King Edward)	Collegiate Park	C	-	5527913.9	628108.9	C193705	ALW116
AB-LM-01	0.025	2021/11/24	43	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527716	627707.8	C193707	ALW146
AB-LM-02	0.025	2021/11/24	21	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527715.3	627695.5	C193707	ALW147
AB-LM-02D	(dup)	2021/11/24	20	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527715.3	627695.5	C193707	ALW148
AB-LM-03	0.025	2021/11/24	18	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527716.5	627680	C193707	ALW149
AB-LM-04	0.025	2021/11/24	16	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527726.1	627679.5	C193707	ALW150
AB-LM-05	0.025	2021/11/24	39	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527725	627709.6	C193707	ALW151
AB-LM-06	0.025	2021/11/24	20	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527738	627710.1	C193707	ALW152
AB-LM-07	0.025	2021/11/24	14	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527745.7	627681	C193707	ALW153
AB-LM-08	0.025	2021/11/24	15	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527764.1	627682.4	C193707	ALW154
AB-LM-09	0.025	2021/11/24	13	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527763.9	627698.8	C193707	ALW155
AB-LM-10	0.025	2021/11/24	25	Airport Buffer (King Edward)	Legion Memorial Playground	C	-	5527761.1	627709.7	C193707	ALW156
AW-AC-01	0.025	2021/10/26	6.1	Archwood	Archwood C.C	C	-	5526527.7	636463.7	C182827	AJG983
AW-AC-02	0.025	2021/10/26	33	Archwood	Archwood C.C	C	-	5526564.6	636449.8	C182827	AJG984
AW-AC-03	0.025	2021/10/26	29	Archwood	Archwood C.C	C	-	5526563.2	636476.3	C182827	AJG985
AW-AC-04	0.025	2021/10/26	44	Archwood	Archwood C.C	C	-	5526618	636467.1	C182827	AJG986
AW-AC-05	0.025	2021/10/26	22	Archwood	Archwood C.C	C	-	5526550.6	636437.8	C182827	AJG987
AW-AC-06	0.025	2021/10/26	33	Archwood	Archwood C.C	C	-	5526523.5	636435.6	C182827	AJG988
AW-DP-01	0.025	2021/10/26	36	Archwood	Deniset Park	C	-	5526863.3	636284.5	C182827	AJG989
AW-DP-02	0.025	2021/10/26	25	Archwood	Deniset Park	C	-	5526875.3	636333.3	C182827	AJG990
AW-DP-03	0.025	2021/10/26	55	Archwood	Deniset Park	C	-	5526859.2	636418.5	C182827	AJG991
AW-DP-04	0.025	2021/10/26	31	Archwood	Deniset Park	C	-	5526782.2	636468.4	C182827	AJG992
AW-HP-01	0.025	2021/10/26	47	Archwood	Happyland Park	C	-	5527161.9	636201.5	C182827	AJG964
AW-HP-02	0.025	2021/10/26	55	Archwood	Happyland Park	C	-	5527190	636181.1	C182827	AJG965
AW-HP-03	0.025	2021/10/26	29	Archwood	Happyland Park	C	-	5527223.1	636182.8	C182827	AJG966
AW-HP-04	0.025	2021/10/26	29	Archwood	Happyland Park	C	-	5527218.7	636231.3	C182827	AJG967
AW-HP-05	0.025	2021/10/26	27	Archwood	Happyland Park	C	-	5527207.1	636275.9	C182827	AJG968
AW-HP-06	0.025	2021/10/26	52	Archwood	Happyland Park	C	-	5527182.3	636264.9	C182827	AJG969
AW-HP-07	0.025	2021/10/26	130	Archwood	Happyland Park	C	-	5527188.3	636322.7	C182827	AJG970
AW-HP-08	0.025	2021/10/26	18	Archwood	Happyland Park	C	-	5527225.8	636376.8	C182827	AJG971
AW-HP-09	0.025	2021/10/26	23	Archwood	Happyland Park	C	-	5527187.8	636381.7	C182827	AJG972
AW-HP-10	0.025	2021/10/26	25	Archwood	Happyland Park	C	-	5527163	636404.3	C182827	AJG973
AW-HP-11	0.025	2021/10/26	35	Archwood	Happyland Park	C	-	5527187.8	636423.6	C182827	AJG974
AW-HP-12	0.025	2021/10/26	68	Archwood	Happyland Park	C	-	5527219.8	636418.1	C182827	AJG975
AW-HP-13	0.025	2021/10/26	72	Archwood	Happyland Park	C	-	5527217.6	636462.2	C182827	AJG976
AW-HP-14	0.025	2021/10/26	140	Archwood	Happyland Park	C	-	5527212.6	636499.6	C182827	AJG977
AW-HP-15	0.025	2021/10/26	250	Archwood	Happyland Park	C	-	5527215.4	636550.9	C182827	AJG978
AW-HP-16	0.025	2021/10/26	59	Archwood	Happyland Park	C	-	5527160.2	636539.9	C182827	AJG979
AW-HP-17	0.025	2021/10/26	50	Archwood	Happyland Park	C	-	5527155.7	636483.3	C182827	AJG980
AW-HP-17D	(dup)	2021/10/26	51	Archwood	Happyland Park	C	-	5527155.7	636483.3	C182827	AJG981
AW-HP-18	0.025	2021/10/26	48	Archwood	Happyland Park	C	-	5527181.7	636461.1	C182827	AJG982

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsik Corp., Nov. 29, 2019.

c - WSD: Winnipeg School Division, DS: Division Scolaire Franco-Manitobaine, LR: Louis Riel School Division, SJ: St. James Assiniboia School Division, IS: independent school.

d - GPS coordinates are in NAD 83/Zone 14.

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m) Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140							
CRITERIA^b			100-210							
BL-BP-01	0.025	2021/11/17	35	Brooklands	Bannatyne Playground	C	-	5530947.6 629267.4	C193735	ALW267
BL-BP-02	0.025	2021/11/17	74	Brooklands	Bannatyne Playground	C	-	5530960.5 629263.1	C193735	ALW268
BL-BP-03	0.025	2021/11/17	64	Brooklands	Bannatyne Playground	C	-	5530969.2 629271.8	C193735	ALW269
BL-BP-04	0.025	2021/11/17	74	Brooklands	Bannatyne Playground	C	-	5530957.7 629276	C193735	ALW270
BL-BP-05	0.025	2021/11/17	74	Brooklands	Bannatyne Playground	C	-	5530964.6 629287.8	C193735	ALW271
BL-BP-06	0.025	2021/11/17	8.4	Brooklands	Bannatyne Playground	C	-	5530955.7 629287.8	C193735	ALW272
BL-BP-07	0.025	2021/11/17	47	Brooklands	Bannatyne Playground	C	-	5530945.5 629292.9	C193735	ALW273
BL-BP-08	0.025	2021/11/17	120	Brooklands	Bannatyne Playground	C	-	5530951.5 629311.4	C193735	ALW274
BL-BP-09	0.025	2021/11/17	130	Brooklands	Bannatyne Playground	C	-	5530947.3 629320.3	C193735	ALW275
BL-BB-01	0.025	2021/11/18	18	Brooklands	Blue Bird Park	C	-	5531103.5 628918	C193735	ALW289
BL-BB-02	0.025	2021/11/18	76	Brooklands	Blue Bird Park	C	-	5531113.8 628908.2	C193735	ALW290
BL-BB-03	0.025	2021/11/18	12	Brooklands	Blue Bird Park	C	-	5531130.2 628909.3	C193735	ALW291
BL-BB-04	0.025	2021/11/18	49	Brooklands	Blue Bird Park	C	-	5531135.5 628923.4	C193735	ALW292
BL-BB-05	0.025	2021/11/18	25	Brooklands	Blue Bird Park	C	-	5531128.5 628936.4	C193735	ALW293
BL-BB-06	0.025	2021/11/18	15	Brooklands	Blue Bird Park	C	-	5531119.5 628950.7	C193735	ALW294
BL-BB-07	0.025	2021/11/18	100	Brooklands	Blue Bird Park	C	-	5531115 628967.9	C193735	ALW295
BL-BB-08	0.025	2021/11/18	25	Brooklands	Blue Bird Park	C	-	5531106.2 628955.4	C193735	ALW296
BL-BB-09	0.025	2021/11/18	25	Brooklands	Blue Bird Park	C	-	5531106.7 628933.7	C193735	ALW297
BL-BS-01	0.025	2021/11/18	19	Brooklands	Brooklands school (K-5)	S	SJ	5531487.6 629146.3	C193735	ALW298
BL-BS-02	0.025	2021/11/18	18	Brooklands	Brooklands school (K-5)	S	SJ	5531498.5 629177.9	C193735	ALW299
BL-BS-03	0.025	2021/11/18	25	Brooklands	Brooklands school (K-5)	S	SJ	5531530.7 629203	C193735	ALW300
BL-BS-04	0.025	2021/11/18	29	Brooklands	Brooklands school (K-5)	S	SJ	5531531.4 629166.3	C193735	ALW301
BL-BS-05	0.025	2021/11/18	9.3	Brooklands	Brooklands school (K-5)	S	SJ	5531557.8 629110.5	C193735	ALW302
BL-BS-06	0.025	2021/11/18	12	Brooklands	Brooklands school (K-5)	S	SJ	5531529.8 629100.2	C193735	ALW303
BL-BS-07	0.025	2021/11/18	41	Brooklands	Brooklands school (K-5)	S	SJ	5531527.8 629045.4	C193735	ALW304
BL-BS-08	0.025	2021/11/18	38	Brooklands	Brooklands school (K-5)	S	SJ	5531537.5 629015.1	C193735	ALW305
BL-BS-09	0.025	2021/11/18	52	Brooklands	Brooklands school (K-5)	S	SJ	5531554.9 629036.1	C193735	ALW306
BL-BS-10	0.025	2021/11/18	44	Brooklands	Brooklands school (K-5)	S	SJ	5531577.5 629050	C193735	ALW307
BL-BS-11	0.025	2021/11/18	35	Brooklands	Brooklands school (K-5)	S	SJ	5531582.6 629077.4	C193735	ALW308
BL-BS-12	0.025	2021/11/18	51	Brooklands	Brooklands school (K-5)	S	SJ	5531603.6 629043.2	C193735	ALW309
BL-GP-01	0.025	2021/11/17	79	Brooklands	Galmar Park	C	-	5531745.9 629376.6	C193735	ALW276
BL-GP-02	0.025	2021/11/17	46	Brooklands	Galmar Park	C	-	5531750.4 629368	C193735	ALW277
BL-GP-03	0.025	2021/11/17	29	Brooklands	Galmar Park	C	-	5531762 629371.3	C193735	ALW278
BL-GP-04	0.025	2021/11/17	27	Brooklands	Galmar Park	C	-	5531757.5 629383.8	C193735	ALW279
BL-GP-04D (dup)	0.025	2021/11/17	19	Brooklands	Galmar Park	C	-	5531757.5 629383.8	C193735	ALW280
BL-GP-05	0.025	2021/11/17	57	Brooklands	Galmar Park	C	-	5531768.6 629387.8	C193735	ALW281
BL-GP-06	0.025	2021/11/17	18	Brooklands	Galmar Park	C	-	5531772 629378.7	C193735	ALW282
BL-LP-01	0.025	2021/11/18	140	Brooklands	Lismore Park	C	-	5531150.4 628784.7	C193735	ALW283
BL-LP-02	0.025	2021/11/18	110	Brooklands	Lismore Park	C	-	5531145 628822.5	C193735	ALW284
BL-LP-03	0.025	2021/11/18	36	Brooklands	Lismore Park	C	-	5531151.5 628875.4	C193735	ALW285
BL-LP-04	0.025	2021/11/18	31	Brooklands	Lismore Park	C	-	5531152.3 628849.5	C193735	ALW286
BL-LP-05	0.025	2021/11/18	160	Brooklands	Lismore Park	C	-	5531167.7 628821.5	C193735	ALW287
BL-LP-06	0.025	2021/11/18	55	Brooklands	Lismore Park	C	-	5531188.5 628787.4	C193735	ALW288
BL-PD-01	0.025	2021/11/18	50	Brooklands	Pacific Dee Park	C	-	5531463.8 629239.8	C193734	ALW259
BL-PD-02	0.025	2021/11/18	17	Brooklands	Pacific Dee Park	C	-	5531491.2 629224.4	C193734	ALW260
BL-PD-03	0.025	2021/11/18	12	Brooklands	Pacific Dee Park	C	-	5531505.3 629213.4	C193734	ALW261
BL-PD-03D (dup)	0.025	2021/11/18	9.3	Brooklands	Pacific Dee Park	C	-	5531505.3 629213.4	C193734	ALW262
BL-PD-04	0.025	2021/11/18	39	Brooklands	Pacific Dee Park	C	-	5531509.4 629204.8	C193734	ALW263
BL-PD-05	0.025	2021/11/18	18	Brooklands	Pacific Dee Park	C	-	5531520 629211.9	C193734	ALW264
BL-PD-06	0.025	2021/11/18	140	Brooklands	Pacific Dee Park	C	-	5531520.8 629221.5	C193734	ALW265

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
								Northing (m)	Easting (m)		
CRITERIA ^a			140								
CRITERIA ^b			100-210								
BL-PD-07	0.025	2021/11/18	9.5	Brooklands	Pacific Dee Park	C	-	5531529.5	629219.4	C193734	ALW266
BC-BP-01	0.025	2021/11/10	28	Burrows Central	Boyd Park	C	-	5532361	631837.4	C189375	AKZ967
BC-BP-02	0.025	2021/11/10	14	Burrows Central	Boyd Park	C	-	5532372	631819.7	C189375	AKZ968
BC-BP-03	0.025	2021/11/10	13	Burrows Central	Boyd Park	C	-	5532337.3	631795.7	C189375	AKZ969
BC-BP-04	0.025	2021/11/10	18	Burrows Central	Boyd Park	C	-	5532350.9	631781.5	C189375	AKZ970
BC-BP-05	0.025	2021/11/10	11	Burrows Central	Boyd Park	C	-	5532354.4	631755.3	C189375	AKZ971
BC-BP-06	0.025	2021/11/10	8.1	Burrows Central	Boyd Park	C	-	5532392.2	631779.8	C189375	AKZ972
BC-BP-07	0.025	2021/11/10	59	Burrows Central	Boyd Park	C	-	5532382.7	631752.2	C189375	AKZ973
BC-BP-08	0.025	2021/11/10	16	Burrows Central	Boyd Park	C	-	5532384.4	631692.7	C189375	AKZ974
BC-BP-09	0.025	2021/11/10	4.8	Burrows Central	Boyd Park	C	-	5532399	631716.1	C189375	AKZ975
BC-BP-10	0.025	2021/11/10	10	Burrows Central	Boyd Park	C	-	5532422.1	631710.5	C189375	AKZ976
BC-KE-01	0.025	2021/11/12	57	Burrows Central	King Edward school (N-6)	S	WSD	5531321.1	632327.5	C189375	AKZ988
BC-KE-02	0.025	2021/11/12	12	Burrows Central	King Edward school (N-6)	S	WSD	5531346.1	632326.8	C189375	AKZ989
BC-KE-02D (dup)	0.025	2021/11/12	38	Burrows Central	King Edward school (N-6)	S	WSD	5531346.1	632326.8	C189375	AKZ990
BC-KE-03	0.025	2021/11/12	57	Burrows Central	King Edward school (N-6)	S	WSD	5531368.5	632344.2	C189375	AKZ991
BC-KE-04	0.025	2021/11/12	31	Burrows Central	King Edward school (N-6)	S	WSD	5531360.1	632232.6	C189375	AKZ992
BC-KE-05	0.025	2021/11/12	14	Burrows Central	King Edward school (N-6)	S	WSD	5531383.9	632232.9	C189375	AKZ993
BC-KE-06	0.025	2021/11/12	16	Burrows Central	King Edward school (N-6)	S	WSD	5531371.7	632208.4	C189375	AKZ994
BC-KE-07	0.025	2021/11/12	37	Burrows Central	King Edward school (N-6)	S	WSD	5531384.8	632175.6	C189375	AKZ995
BC-KE-08	0.025	2021/11/12	16	Burrows Central	King Edward school (N-6)	S	WSD	5531391.7	632196.4	C189375	AKZ996
BC-KE-09	0.025	2021/11/12	15	Burrows Central	King Edward school (N-6)	S	WSD	5531409.1	632192.5	C189375	AKZ997
BC-KE-10	0.025	2021/11/12	17	Burrows Central	King Edward school (N-6)	S	WSD	5531424.2	632234.2	C189375	AKZ998
BC-MS-01	0.025	2021/11/12	90	Burrows Central	Margaret Scott Park	S	WSD	5531716	632497.6	C189375	AKZ977
BC-MS-02	0.025	2021/11/12	26	Burrows Central	Margaret Scott Park	S	WSD	5531752	632522.3	C189375	AKZ978
BC-MS-03	0.025	2021/11/12	22	Burrows Central	Margaret Scott Park	S	WSD	5531745.4	632486.6	C189375	AKZ979
BC-MS-04	0.025	2021/11/12	13	Burrows Central	Margaret Scott Park	S	WSD	5531729.9	632460.5	C189375	AKZ980
BC-MS-05	0.025	2021/11/12	11	Burrows Central	Margaret Scott Park	S	WSD	5531750.8	632423	C189375	AKZ981
BC-MS-06	0.025	2021/11/12	22	Burrows Central	Margaret Scott Park	S	WSD	5531764.6	632398	C189375	AKZ982
BC-MS-07	0.025	2021/11/12	16	Burrows Central	Margaret Scott Park	S	WSD	5531776.7	632419.4	C189375	AKZ983
BC-MS-08	0.025	2021/11/12	19	Burrows Central	Margaret Scott Park	S	WSD	5531803	632423	C189375	AKZ984
BC-MS-09	0.025	2021/11/12	18	Burrows Central	Margaret Scott Park	S	WSD	5531789.1	632444.8	C189375	AKZ985
BC-MS-10	0.025	2021/11/12	15	Burrows Central	Margaret Scott Park	S	WSD	5531761.2	632453.5	C189375	AKZ986
BC-MS-11	0.025	2021/11/12	25	Burrows Central	Margaret Scott Park	S	WSD	5531771.3	632483.2	C189375	AKZ987
BK-SP-01	0.025	2021/11/09	30	Burrows Keewatin	Shaughnessy Park	C	-	5532756.2	629605.4	C189363	AKZ864
BK-SP-02	0.025	2021/11/09	12	Burrows Keewatin	Shaughnessy Park	C	-	5532763.2	629658.8	C189363	AKZ865
BK-SP-02D (dup)	0.025	2021/11/09	15	Burrows Keewatin	Shaughnessy Park	C	-	5532763.2	629658.8	C189363	AKZ866
BK-SP-03	0.025	2021/11/09	34	Burrows Keewatin	Shaughnessy Park	C	-	5532839.8	629650.7	C189363	AKZ867
BK-SP-04	0.025	2021/11/09	11	Burrows Keewatin	Shaughnessy Park	C	-	5532867.8	629704.6	C189363	AKZ868
BK-SP-05	0.025	2021/11/09	6.7	Burrows Keewatin	Shaughnessy Park	C	-	5532920.7	629647	C189363	AKZ869
BK-SP-06	0.025	2021/11/09	7.2	Burrows Keewatin	Shaughnessy Park	C	-	5532974.6	629614.1	C189363	AKZ870
BK-SP-07	0.025	2021/11/09	17	Burrows Keewatin	Shaughnessy Park	C	-	5532973.5	629680.4	C189363	AKZ871
BK-SP-08	0.025	2021/11/09	14	Burrows Keewatin	Shaughnessy Park	C	-	5532959.9	629769.8	C189363	AKZ872
BK-SP-09	0.025	2021/11/09	17	Burrows Keewatin	Shaughnessy Park	C	-	5532991.5	629728.7	C189363	AKZ873
BK-SP-10	0.025	2021/11/09	51	Burrows Keewatin	Shaughnessy Park	C	-	5532893.7	629802.2	C189363	AKZ874
BK-SP-11	0.025	2021/11/09	18	Burrows Keewatin	Shaughnessy Park	C	-	5532955.7	629828.7	C189363	AKZ875
BK-SP-12	0.025	2021/11/09	46	Burrows Keewatin	Shaughnessy Park	C	-	5532864	629866.9	C189363	AKZ876
BK-SP-13	0.025	2021/11/09	43	Burrows Keewatin	Shaughnessy Park	C	-	5532894.2	629913.3	C189363	AKZ877
BK-SP-14	0.025	2021/11/09	16	Burrows Keewatin	Shaughnessy Park	C	-	5532921.7	629964	C189363	AKZ878
BK-SP-15	0.025	2021/11/09	47	Burrows Keewatin	Shaughnessy Park	C	-	5532933.6	629945.1	C189363	AKZ879
BK-SP-16	0.025	2021/11/09	21	Burrows Keewatin	Shaughnessy Park	C	-	5532951.9	629949.4	C189363	AKZ880
BK-SP-17	0.025	2021/11/09	11	Burrows Keewatin	Shaughnessy Park	C	-	5532968.6	629960.8	C189363	AKZ881

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BK-SP-18	0.025	2021/11/09	40	Burrows Keewatin	Shaughnessy Park	C	-	5532974.6	629937.6	C189363	AKZ882
BK-SP-19	0.025	2021/11/09	23	Burrows Keewatin	Shaughnessy Park	C	-	5532958.9	629914.4	C189363	AKZ883
BK-SP-20	0.025	2021/11/09	30	Burrows Keewatin	Shaughnessy Park	C	-	5532977.8	629889.6	C189363	AKZ884
BK-SS-01	0.025	2021/11/10	34	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532658	629780.9	C189363	AKZ885
BK-SS-01D (dup)	0.025	2021/11/10	59	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532658	629780.9	C189363	AKZ886
BK-SS-02	0.025	2021/11/10	28	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532702.7	629705	C189363	AKZ887
BK-SS-03	0.025	2021/11/10	36	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532702.4	629763.6	C189363	AKZ888
BK-SS-04	0.025	2021/11/10	28	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532740	629743.6	C189363	AKZ889
BK-SS-05	0.025	2021/11/10	33	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532757.3	629785.3	C189363	AKZ890
BK-SS-06	0.025	2021/11/10	58	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532777.3	629717.5	C189363	AKZ891
BK-SS-07	0.025	2021/11/10	18	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532796.9	629795.2	C189363	AKZ892
BK-SS-08	0.025	2021/11/10	23	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532831.2	629826.7	C189363	AKZ893
BK-SS-09	0.025	2021/11/10	4.7	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532817.9	629759.9	C189363	AKZ894
BK-SS-10	0.025	2021/11/10	14	Burrows Keewatin	Shaughnessy Park school (N-8)	S	WSD	5532842	629720.2	C189363	AKZ895
CN-CC-01	0.025	2021/11/15	14	Centennial	Central C.C / Freighthouse	C	-	5529626.4	632966.6	C189415	ALA645
CN-CC-02	0.025	2021/11/15	25	Centennial	Central C.C / Freighthouse	C	-	5529631.6	632949.7	C189415	ALA646
CN-CC-03	0.025	2021/11/15	13	Centennial	Central C.C / Freighthouse	C	-	5529638.6	632973.8	C189415	ALA647
CN-CC-04	0.025	2021/11/15	12	Centennial	Central C.C / Freighthouse	C	-	5529662.5	632980.2	C189415	ALA648
CN-CC-05	0.025	2021/11/15	9.5	Centennial	Central C.C / Freighthouse	C	-	5529668	632964.9	C189415	ALA649
CN-CC-06	0.025	2021/11/15	25	Centennial	Central C.C / Freighthouse	C	-	5529656.5	632958.9	C189415	ALA650
CN-CC-07	0.025	2021/11/15	13	Centennial	Central C.C / Freighthouse	C	-	5529652.2	632945.3	C189415	ALA651
CN-CC-07D (dup)	0.025	2021/11/15	17	Centennial	Central C.C / Freighthouse	C	-	5529652.2	632945.3	C189415	ALA652
CN-CC-08	0.025	2021/11/15	55	Centennial	Central C.C / Freighthouse	C	-	5529657.6	632926.8	C189415	ALA653
CN-CC-09	0.025	2021/11/15	20	Centennial	Central C.C / Freighthouse	C	-	5529674	632951.2	C189415	ALA654
CN-CC-10	0.025	2021/11/15	11	Centennial	Central C.C / Freighthouse	C	-	5529680.1	632916.8	C189415	ALA655
CN-CC-11	0.025	2021/11/15	10	Centennial	Central C.C / Freighthouse	C	-	5529676.7	632859.7	C189415	ALA656
CN-CC-12	0.025	2021/11/15	14	Centennial	Central C.C / Freighthouse	C	-	5529716.3	632854.3	C189415	ALA657
CN-CC-13	0.025	2021/11/15	15	Centennial	Central C.C / Freighthouse	C	-	5529728.5	632828.1	C189415	ALA658
CN-CC-14	0.025	2021/11/15	17	Centennial	Central C.C / Freighthouse	C	-	5529696.9	632810.1	C189415	ALA659
CN-CC-15	0.025	2021/11/15	36	Centennial	Central C.C / Freighthouse	C	-	5529710	632770.3	C189415	ALA660
CN-CC-16	0.025	2021/11/15	50	Centennial	Central C.C / Freighthouse	C	-	5529733.4	632795.4	C189415	ALA661
CN-CC-17	0.025	2021/11/15	47	Centennial	Central C.C / Freighthouse	C	-	5529760.7	632751.2	C189415	ALA662
CN-CC-18	0.025	2021/11/15	12	Centennial	Central C.C / Freighthouse	C	-	5529735.6	632749	C189415	ALA663
CN-CC-19	0.025	2021/11/15	38	Centennial	Central C.C / Freighthouse	C	-	5529726.3	632733.2	C189415	ALA664
CN-CC-20	0.025	2021/11/15	8.3	Centennial	Central C.C / Freighthouse	C	-	5529778.1	632663.4	C189415	ALA665
CN-CC-21	0.025	2021/11/15	120	Centennial	Central C.C / Freighthouse	C	-	5529808.7	632602.9	C189415	ALA666
CN-CC-22	0.025	2021/11/15	290	Centennial	Central C.C / Freighthouse	C	-	5529808.7	632545.6	C189415	ALA667
CN-CC-23	0.025	2021/11/15	390	Centennial	Central C.C / Freighthouse	C	-	5529844.1	632567.4	C189415	ALA668
CN-DP-01	0.025	2021/11/16	30	Centennial	Dufferin Park	C	-	5529864	632756.6	C189415	ALA669
CN-DP-02	0.025	2021/11/16	72	Centennial	Dufferin Park	C	-	5529886.2	632732	C189415	ALA670
CN-DP-03	0.025	2021/11/16	97	Centennial	Dufferin Park	C	-	5529895.3	632691.6	C189415	ALA671
CN-DP-04	0.025	2021/11/16	150	Centennial	Dufferin Park	C	-	5529932.5	632723.4	C189415	ALA672
CN-DP-05	0.025	2021/11/16	94	Centennial	Dufferin Park	C	-	5529920.9	632741.2	C189415	ALA673
CN-DP-06	0.025	2021/11/16	46	Centennial	Dufferin Park	C	-	5529908	632775.6	C189415	ALA674
CN-DP-07	0.025	2021/11/16	170	Centennial	Dufferin Park	C	-	5529947.5	632788.2	C189415	ALA675
CN-DP-08	0.025	2021/11/16	200	Centennial	Dufferin Park	C	-	5529949.2	632754.6	C189415	ALA676
CN-DP-09	0.025	2021/11/16	260	Centennial	Dufferin Park	C	-	5529970.2	632735.2	C189415	ALA677
CN-DS-01	0.025	2021/11/17	39	Centennial	Dufferin school (N-6) - Adjacent City Property	C [in use by SJ]	WSD	5529758.2	633013.1	C189415	ALA678
CN-DS-02	0.025	2021/11/17	60	Centennial	Dufferin school (N-6)	S	WSD	5529768.2	632986	C189415	ALA679
CN-DS-03	0.025	2021/11/17	130	Centennial	Dufferin school (N-6)	S	WSD	5529784.6	632966	C189415	ALA680

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
CN-DS-04	0.025	2021/11/17	110	Centennial	Dufferin school (N-6)	S	WSD	5529799.4	632943	C189415	ALA681
CN-DS-05	0.025	2021/11/17	110	Centennial	Dufferin school (N-6)	S	WSD	5529809.4	632968	C189415	ALA682
CN-DS-05D	(dup) 0.025	2021/11/17	100	Centennial	Dufferin school (N-6)	S	WSD	5529809.4	632968	C189415	ALA683
CN-DS-06	0.025	2021/11/17	200	Centennial	Dufferin school (N-6)	S	WSD	5529811.2	632990.1	C189415	ALA684
CN-DS-07	0.025	2021/11/17	41	Centennial	Dufferin school (N-6) - Adjacent City Property	C [in use by S]	WSD	5529800.7	633017.4	C189415	ALA685
CN-DS-08	0.025	2021/11/17	48	Centennial	Dufferin school (N-6) - Adjacent City Property	C [in use by S]	WSD	5529831	633019.9	C189415	ALA686
CN-DS-09	0.025	2021/11/17	300	Centennial	Dufferin school (N-6)	S	WSD	5529847.2	632999.6	C189415	ALA687
CN-DS-10	0.025	2021/11/17	62	Centennial	Dufferin school (N-6)	S	WSD	5529833.1	632977.6	C189415	ALA688
CN-DS-11	0.025	2021/11/17	91	Centennial	Dufferin school (N-6)	S	WSD	5529829.9	632954.3	C189415	ALA689
CN-DS-12	0.025	2021/11/17	150	Centennial	Dufferin school (N-6)	S	WSD	5529863.6	632968.5	C189415	ALA690
CN-DS-13	0.025	2021/11/17	63	Centennial	Dufferin school (N-6)	S	WSD	5529848.1	632870.6	C189415	ALA691
CN-GP-01	0.025	2021/11/15	240	Centennial	Giizhigooweyaabikwe Park	C	-	5529545	633451.6	C189409	ALA443
CN-GP-02	0.025	2021/11/15	170	Centennial	Giizhigooweyaabikwe Park	C	-	5529553.1	633420.1	C189409	ALA444
CN-GP-03	0.025	2021/11/15	70	Centennial	Giizhigooweyaabikwe Park	C	-	5529569.6	633391.5	C189409	ALA445
CN-GP-04	0.025	2021/11/15	41	Centennial	Giizhigooweyaabikwe Park	C	-	5529599.2	633402.2	C189409	ALA446
CN-GP-05	0.025	2021/11/15	160	Centennial	Giizhigooweyaabikwe Park	C	-	5529588.8	633429.5	C189409	ALA447
CN-GP-06	0.025	2021/11/15	52	Centennial	Giizhigooweyaabikwe Park	C	-	5529601.3	633451	C189409	ALA448
CN-GP-06D	(dup) 0.025	2021/11/15	49	Centennial	Giizhigooweyaabikwe Park	C	-	5529601.3	633451	C189409	ALA449
CN-GP-07	0.025	2021/11/15	72	Centennial	Giizhigooweyaabikwe Park	C	-	5529592.1	633468.9	C189409	ALA450
CN-GP-08	0.025	2021/11/15	140	Centennial	Giizhigooweyaabikwe Park	C	-	5529608.9	633483.5	C189409	ALA451
CN-GP-09	0.025	2021/11/15	160	Centennial	Giizhigooweyaabikwe Park	C	-	5529632	633477.8	C189409	ALA452
CN-GP-10	0.025	2021/11/15	130	Centennial	Giizhigooweyaabikwe Park	C	-	5529628.4	633451	C189409	ALA453
CN-GD-01	0.025	2021/11/15	14	Centennial	Gord Dong Park	C	-	5529390.9	633422.5	C189409	ALA436
CN-GD-02	0.025	2021/11/15	12	Centennial	Gord Dong Park	C	-	5529406.1	633409.2	C189409	ALA437
CN-GD-03	0.025	2021/11/15	26	Centennial	Gord Dong Park	C	-	5529402.7	633389.6	C189409	ALA438
CN-GD-04	0.025	2021/11/15	10	Centennial	Gord Dong Park	C	-	5529433.5	633403.8	C189409	ALA439
CN-GD-05	0.025	2021/11/15	82	Centennial	Gord Dong Park	C	-	5529421	633416.8	C189409	ALA440
CN-GD-06	0.025	2021/11/15	11	Centennial	Gord Dong Park	C	-	5529431.4	633444.1	C189409	ALA441
CN-GD-07	0.025	2021/11/15	9.9	Centennial	Gord Dong Park	C	-	5529443.7	633422.2	C189409	ALA442
CN-PA-01	0.025	2021/11/15	52	Centennial	Pacific Avenue Tot Lot	C	-	5529555.2	633181.7	C189409	ALA428
CN-PA-02	0.025	2021/11/15	120	Centennial	Pacific Avenue Tot Lot	C	-	5529561.4	633190.7	C189409	ALA429
CN-PA-03	0.025	2021/11/15	70	Centennial	Pacific Avenue Tot Lot	C	-	5529568.1	633193.7	C189409	ALA430
CN-PA-04	0.025	2021/11/15	5.9	Centennial	Pacific Avenue Tot Lot	C	-	5529563.7	633178.2	C189409	ALA431
CN-PA-05	0.025	2021/11/15	26	Centennial	Pacific Avenue Tot Lot	C	-	5529560.3	633166.5	C189409	ALA432
CN-PA-06	0.025	2021/11/15	34	Centennial	Pacific Avenue Tot Lot	C	-	5529575.1	633177.9	C189409	ALA433
CN-PA-07	0.025	2021/11/15	23	Centennial	Pacific Avenue Tot Lot	C	-	5529577.6	633165.4	C189409	ALA434
CN-PA-08	0.025	2021/11/15	30	Centennial	Pacific Avenue Tot Lot	C	-	5529569.3	633160.9	C189409	ALA435
CN-RP-01	0.025	2021/11/15	160	Centennial	Roosevelt Park	C	-	5529477.6	632866.7	C189409	ALA454
CN-RP-02	0.025	2021/11/15	16	Centennial	Roosevelt Park	C	-	5529494	632870.1	C189409	ALA455
CN-RP-03	0.025	2021/11/15	18	Centennial	Roosevelt Park	C	-	5529503.5	632876.9	C189409	ALA456
CN-RP-04	0.025	2021/11/15	75	Centennial	Roosevelt Park	C	-	5529520.3	632849.3	C189409	ALA457
CN-RP-05	0.025	2021/11/15	250	Centennial	Roosevelt Park	C	-	5529501.2	632813.1	C189409	ALA458
CN-RP-06	0.025	2021/11/15	46	Centennial	Roosevelt Park	C	-	5529515.6	632803.5	C189409	ALA459
CN-RP-07	0.025	2021/11/15	130	Centennial	Roosevelt Park	C	-	5529537.2	632803.7	C189409	ALA460
CN-RP-08	0.025	2021/11/15	26	Centennial	Roosevelt Park	C	-	5529519.9	632779.8	C189409	ALA461
CN-RP-09	0.025	2021/11/15	47	Centennial	Roosevelt Park	C	-	5529536	632758.9	C189409	ALA462
CN-RP-10	0.025	2021/11/15	26	Centennial	Roosevelt Park	C	-	5529551.8	632775.8	C189409	ALA463
CN-RE-01	0.025	2021/11/15	23	Centennial	Ross Ellen Park	C	-	5529476.9	633234	C189409	ALA420

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TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)Easting (m)		Laboratory Certificate of Analysis No.	Laboratory Sample ID	
CRITERIA ^a CRITERIA ^b			140 100-210									
CN-RE-02	0.025	2021/11/15	21	Centennial	Ross Ellen Park	C	-	5529475.9	633224.8	C189409	ALA421	
CN-RE-03	0.025	2021/11/15	21	Centennial	Ross Ellen Park	C	-	5529482.9	633212.8	C189409	ALA422	
CN-RE-03D	(dup)	0.025	2021/11/15	13	Centennial	Ross Ellen Park	C	-	5529482.9	633212.8	C189409	ALA423
CN-RE-04	0.025	2021/11/15	71	Centennial	Ross Ellen Park	C	-	5529488.7	633219.9	C189409	ALA424	
CN-RE-05	0.025	2021/11/15	34	Centennial	Ross Ellen Park	C	-	5529496.6	633219.7	C189409	ALA425	
CN-RE-06	0.025	2021/11/15	14	Centennial	Ross Ellen Park	C	-	5529502.6	633235.2	C189409	ALA426	
CN-RE-07	0.025	2021/11/15	13	Centennial	Ross Ellen Park	C	-	5529497.6	633244.2	C189409	ALA427	
SB-HB-01	0.025	2021/10/22	82	Central St. Boniface	École Henri-Bergeron (4-8)	S	LR	5527472.9	635467.9	C181837	AJB257	
SB-HB-02	0.025	2021/10/22	42	Central St. Boniface	École Henri-Bergeron (4-8)	S	LR	5527425.2	635513.1	C181837	AJB258	
SB-HB-03	0.025	2021/10/22	57	Central St. Boniface	École Henri-Bergeron (4-8)	S	LR	5527388.3	635536.8	C181837	AJB259	
SB-EP-01	0.025	2021/10/22	14	Central St. Boniface	École Provencher (K-3)	S	LR	5528106.9	635497.4	C182343	AJE136	
SB-EP-02	0.025	2021/10/22	11	Central St. Boniface	École Provencher (K-3)	S	LR	5528103.5	635444.6	C182343	AJE137	
SB-EP-03	0.025	2021/10/22	45	Central St. Boniface	École Provencher (K-3)	S	LR	5528195	635433.8	C182343	AJE138	
SB-EP-04	0.025	2021/10/22	95	Central St. Boniface	École Provencher (K-3)	S	LR	5528196	635453.2	C182343	AJE139	
SB-EP-05	0.025	2021/10/22	62	Central St. Boniface	École Provencher (K-3)	S	LR	5528212.3	635462.4	C182343	AJE140	
SB-LV-01	0.025	2021/10/21	140	Central St. Boniface	La Verendrye Park	C	-	5527717.1	634785.7	C182343	AJE108	
SB-LV-01D	(dup)	0.025	2021/10/21	150	Central St. Boniface	La Verendrye Park	C	-	5527717.1	634785.7	C182343	AJE109
SB-LV-02	0.025	2021/10/21	220	Central St. Boniface	La Verendrye Park	C	-	5527686.5	634805.5	C182343	AJE110	
SB-LV-03	0.025	2021/10/21	180	Central St. Boniface	La Verendrye Park	C	-	5527692.3	634833.5	C182343	AJE111	
SB-LV-04	0.025	2021/10/21	170	Central St. Boniface	La Verendrye Park	C	-	5527637.3	634819.9	C182343	AJE112	
SB-LV-05	0.025	2021/10/21	150	Central St. Boniface	La Verendrye Park	C	-	5527593.3	634798.4	C182343	AJE113	
SB-LV-06	0.025	2021/10/21	54	Central St. Boniface	La Verendrye Park	C	-	5527574.4	634856.2	C182343	AJE114	
SB-LV-07	0.025	2021/10/21	91	Central St. Boniface	La Verendrye Park	C	-	5527571.5	634842	C182343	AJE115	
SB-LV-08	0.025	2021/10/21	32	Central St. Boniface	La Verendrye Park	C	-	5527556.2	634840.4	C182343	AJE116	
SB-LV-09	0.025	2021/10/21	120	Central St. Boniface	La Verendrye Park	C	-	5527550	634850.5	C182343	AJE117	
SB-LV-10	0.025	2021/10/21	150	Central St. Boniface	La Verendrye Park	C	-	5527563	634866.1	C182343	AJE118	
SB-LV-11	0.025	2021/10/21	92	Central St. Boniface	La Verendrye Park	C	-	5527574.1	634818.2	C182343	AJE119	
SB-LV-12	0.025	2021/10/21	290	Central St. Boniface	La Verendrye Park	C	-	5527622	634838.4	C182343	AJE120	
SB-LV-13	0.025	2021/10/21	280	Central St. Boniface	La Verendrye Park	C	-	5527658.5	634792.8	C182343	AJE121	
SB-LV-14	0.025	2021/10/21	970	Central St. Boniface	La Verendrye Park	C	-	5527748.4	634834.8	C182343	AJE122	
SB-LV-14R1	0.025	2021/11/17	500	Central St. Boniface	La Verendrye Park	C	-	5527747.7	634833.3	C189380	ALA067	
SB-LV-14R2	0.025	2021/11/17	280	Central St. Boniface	La Verendrye Park	C	-	5527743.8	634836.9	C189380	ALA068	
SB-LV-14R3	0.025	2021/11/17	160	Central St. Boniface	La Verendrye Park	C	-	5527743	634829.8	C189380	ALA069	
SB-MS-01	0.025	2021/10/22	39	Central St. Boniface	Marion school (K-8)	S	LR	5528332.1	635435.8	C181837	AJB260	
SB-MS-02	0.025	2021/10/22	68	Central St. Boniface	Marion school (K-8)	S	LR	5528352.3	635500.9	C181837	AJB261	
SB-MS-03	0.025	2021/10/22	40	Central St. Boniface	Marion school (K-8)	S	LR	5528390.4	635458.2	C181837	AJB262	
SB-MS-04	0.025	2021/10/22	4.3	Central St. Boniface	Marion school (K-8)	S	LR	5528410.4	635404.1	C181837	AJB263	
SB-MS-05	0.025	2021/10/22	44	Central St. Boniface	Marion school (K-8)	S	LR	5528426.4	635488.3	C181837	AJB264	
SB-MS-06	0.025	2021/10/22	180	Central St. Boniface	Marion school (K-8)	S	LR	5528442.4	635512.4	C181837	AJB265	
SB-MS-07	0.025	2021/10/22	15	Central St. Boniface	Marion school (K-8)	S	LR	5528448.8	635484.1	C181837	AJB266	
SB-OC-01	0.025	2021/10/22	34	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527448.7	635342	C182343	AJE141	
SB-OC-02	0.025	2021/10/22	48	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527453.8	635408.9	C182343	AJE142	
SB-OC-03	0.025	2021/10/22	69	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527412.9	635398	C182343	AJE143	
SB-OC-04	0.025	2021/10/22	100	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527383.5	635417.3	C182343	AJE144	
SB-OC-05	0.025	2021/10/22	58	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527411.2	635345.8	C182343	AJE145	
SB-OC-06	0.025	2021/10/22	190	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527386.9	635340.8	C182343	AJE146	
SB-OC-07	0.025	2021/10/22	150	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527384.3	635359.6	C182343	AJE147	
SB-OC-08	0.025	2021/10/22	35	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527361.5	635360.9	C182343	AJE148	
SB-OC-09	0.025	2021/10/22	150	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527357.7	635347.5	C182343	AJE149	
SB-OC-10	0.025	2021/10/22	40	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527348	635376.9	C182343	AJE150	

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CRITERIA^b			100-210								
SB-OC-11	0.025	2021/10/22	50	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527369.7	635386.7	C182343	AJE151
SB-OC-12	0.025	2021/10/22	74	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527372.8	635343.5	C182343	AJE152
SB-OC-13	0.025	2021/10/22	19	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527399.2	635354.8	C182343	AJE153
SB-OC-14	0.025	2021/10/22	44	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527439.1	635378.7	C182343	AJE154
SB-OC-15	0.025	2021/10/22	39	Central St. Boniface	Parc Club Optimist-Saint Boniface-Optimist Club Park	C	-	5527463.6	635391.7	C182343	AJE155
SB-PP-01	0.025	2021/10/21	80	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528342.7	635141.8	C182343	AJE123
SB-PP-02	0.025	2021/10/21	99	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528307.2	635148.1	C182343	AJE124
SB-PP-03	0.025	2021/10/21	81	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528320.6	635165.8	C182343	AJE125
SB-PP-04	0.025	2021/10/21	79	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528331.6	635192.6	C182343	AJE126
SB-PP-05	0.025	2021/10/21	99	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528312	635188.3	C182343	AJE127
SB-PP-06	0.025	2021/10/21	110	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528292.8	635182.6	C182343	AJE128
SB-PP-07	0.025	2021/10/21	29	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528293.8	635223.3	C182343	AJE129
SB-PP-08	0.025	2021/10/21	82	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528274.6	635308.6	C182343	AJE130
SB-PP-09	0.025	2021/10/21	110	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528291.4	635332.1	C182343	AJE131
SB-PP-10	0.025	2021/10/21	65	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528297.9	635359.1	C182343	AJE132
SB-PP-11	0.025	2021/10/21	17	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528369	635257.8	C182343	AJE133
SB-PP-12	0.025	2021/10/21	17	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528409.3	635300.9	C182343	AJE134
SB-PP-13	0.025	2021/10/21	32	Central St. Boniface	Provencher Park / Notre Dame C.C.	C	-	5528418.4	635234.8	C182343	AJE135
CH-AS-01	0.025	2021/10/15	64	Chalmers	Abdo and Samira El Tassi Park	C	-	5529852.2	636346.2	C180132	AIQ240
CH-AS-02	0.025	2021/10/15	23	Chalmers	Abdo and Samira El Tassi Park	C	-	5529827.1	636329.8	C180132	AIQ241
CH-AS-03	0.025	2021/10/15	5.4	Chalmers	Abdo and Samira El Tassi Park	C	-	5529820	636307.4	C180132	AIQ242
CH-AS-04	0.025	2021/10/15	32	Chalmers	Abdo and Samira El Tassi Park	C	-	5529805.3	636332.5	C180132	AIQ243
CH-AS-05	0.025	2021/10/15	9.1	Chalmers	Abdo and Samira El Tassi Park	C	-	5529799.1	636304.1	C180132	AIQ244
CH-AS-06	0.025	2021/10/15	24	Chalmers	Abdo and Samira El Tassi Park	C	-	5529776.7	636314	C180132	AIQ245
CH-AS-07	0.025	2021/10/15	100	Chalmers	Abdo and Samira El Tassi Park	C	-	5529717.5	636297.8	C180132	AIQ246
CH-AS-08	0.025	2021/10/15	72	Chalmers	Abdo and Samira El Tassi Park	C	-	5529740.5	636216.9	C180132	AIQ247
CH-AS-09	0.025	2021/10/15	110	Chalmers	Abdo and Samira El Tassi Park	C	-	5529796.4	636117.4	C180132	AIQ248
CH-CH-01	0.025	2021/10/15	35	Chalmers	Clara Hughes Recreation Park	C	-	5530971.9	635407	C180131	AIQ217
CH-CH-01D (dup)	0.025	2021/10/15	33	Chalmers	Clara Hughes Recreation Park	C	-	5530971.9	635407	C180131	AIQ218
CH-CH-02	0.025	2021/10/15	89	Chalmers	Clara Hughes Recreation Park	C	-	5530960.7	635425.1	C180131	AIQ219
CH-CH-03	0.025	2021/10/15	12	Chalmers	Clara Hughes Recreation Park	C	-	5530992.2	635428.8	C180131	AIQ220
CH-CH-04	0.025	2021/10/15	12	Chalmers	Clara Hughes Recreation Park	C	-	5530984.5	635443.1	C180131	AIQ221
CH-CH-05	0.025	2021/10/15	39	Chalmers	Clara Hughes Recreation Park	C	-	5530970.4	635467.5	C180131	AIQ222
CH-CH-06	0.025	2021/10/15	17	Chalmers	Clara Hughes Recreation Park	C	-	5530950.4	635520.2	C180131	AIQ223
CH-CH-07	0.025	2021/10/15	12	Chalmers	Clara Hughes Recreation Park	C	-	5530906.8	635509	C180131	AIQ224
CH-CH-08	0.025	2021/10/15	70	Chalmers	Clara Hughes Recreation Park	C	-	5530911.4	635552	C180131	AIQ225
CH-CH-09	0.025	2021/10/15	270	Chalmers	Clara Hughes Recreation Park	C	-	5530902.5	635591.8	C180131	AIQ226
CH-CH-10	0.025	2021/10/15	140	Chalmers	Clara Hughes Recreation Park	C	-	5530875	635582.3	C180131	AIQ227
CH-EE-01	0.025	2021/10/15	49	Chalmers	East End Cultural & Leisure Centre	C	-	5530699.4	636530.9	C180132	AIQ259
CH-EE-02	0.025	2021/10/15	39	Chalmers	East End Cultural & Leisure Centre	C	-	5530690.2	636548.8	C180132	AIQ260
CH-EE-03	0.025	2021/10/15	36	Chalmers	East End Cultural & Leisure Centre	C	-	5530706	636558.4	C180132	AIQ261
CH-EE-04	0.025	2021/10/15	46	Chalmers	East End Cultural & Leisure Centre	C	-	5530668.1	636610.8	C180132	AIQ262
CH-EE-05	0.025	2021/10/15	10	Chalmers	East End Cultural & Leisure Centre	C	-	5530658.4	636581.2	C180132	AIQ263
CH-EE-06	0.025	2021/10/15	4	Chalmers	East End Cultural & Leisure Centre	C	-	5530646.7	636579.4	C180132	AIQ264
CH-EE-07	0.025	2021/10/15	12	Chalmers	East End Cultural & Leisure Centre	C	-	5530621.9	636574.5	C180132	AIQ265
CH-EE-08	0.025	2021/10/15	15	Chalmers	East End Cultural & Leisure Centre	C	-	5530633	636573.4	C180132	AIQ266
CH-EE-09	0.025	2021/10/15	16	Chalmers	East End Cultural & Leisure Centre	C	-	5530637.4	636598.5	C180132	AIQ267
CH-EE-10	0.025	2021/10/15	77	Chalmers	East End Cultural & Leisure Centre	C	-	5530635	636631.1	C180132	AIQ268
CH-EW-01	0.025	2021/10/15	95	Chalmers	Elmwood Winter Club	C	-	5530269	635424.2	C180131	AIQ193
CH-EW-02	0.025	2021/10/15	41	Chalmers	Elmwood Winter Club	C	-	5530264.8	635442.2	C180131	AIQ194

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsik Corp., Nov. 29, 2019.

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d - GPS coordinates are in NAD 83/Zone 14.

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID	
								Northing (m)	Easting (m)			
CRITERIA ^a			140									
CRITERIA ^b			100-210									
CH-EW-03	0.025	2021/10/15	45	Chalmers	Elmwood Winter Club	C	-	5530257.9	635455.7	C180131	AIQ195	
CH-EW-04	0.025	2021/10/15	16	Chalmers	Elmwood Winter Club	C	-	5530244.4	635477.4	C180131	AIQ196	
CH-EW-05	0.025	2021/10/15	82	Chalmers	Elmwood Winter Club	C	-	5530270.5	635502.8	C180131	AIQ197	
CH-EW-06	0.025	2021/10/15	94	Chalmers	Elmwood Winter Club	C	-	5530270.8	635483.7	C180131	AIQ198	
CH-EW-07	0.025	2021/10/15	24	Chalmers	Elmwood Winter Club	C	-	5530288.2	635478.6	C180131	AIQ199	
CH-EW-08	0.025	2021/10/15	81	Chalmers	Elmwood Winter Club	C	-	5530289.7	635498.7	C180131	AIQ200	
CH-EW-09	0.025	2021/10/15	34	Chalmers	Elmwood Winter Club	C	-	5530322.5	635495.1	C180131	AIQ201	
CH-EW-10	0.025	2021/10/15	190	Chalmers	Elmwood Winter Club	C	-	5530330	635526	C180131	AIQ202	
CH-EW-11	0.025	2021/10/15	41	Chalmers	Elmwood Winter Club	C	-	5530310.7	635551.2	C180131	AIQ203	
CH-EW-11D	(dup)	0.025	2021/10/15	51	Chalmers	Elmwood Winter Club	C	-	5530310.7	635551.2	C180131	AIQ204
CH-EW-12	0.025	2021/10/15	11	Chalmers	Elmwood Winter Club	C	-	5530307.1	635607.6	C180131	AIQ205	
CH-EW-13	0.025	2021/10/15	15	Chalmers	Elmwood Winter Club	C	-	5530348.3	635627.7	C180131	AIQ206	
CH-EW-14	0.025	2021/10/15	6.1	Chalmers	Elmwood Winter Club	C	-	5530362.7	635569.8	C180131	AIQ207	
CH-LS-01	0.025	2021/10/15	88	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530700.5	635359.3	C180131	AIQ182	
CH-LS-02	0.025	2021/10/15	13	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530684.8	635359.2	C180131	AIQ183	
CH-LS-03	0.025	2021/10/15	15	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530690.8	635368.9	C180131	AIQ184	
CH-LS-04	0.025	2021/10/15	27	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530637.3	635453.9	C180131	AIQ185	
CH-LS-05	0.025	2021/10/15	55	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530615	635442.6	C180131	AIQ186	
CH-LS-06	0.025	2021/10/15	20	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530596.6	635432.8	C180131	AIQ187	
CH-LS-07	0.025	2021/10/15	24	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530606.7	635460.1	C180131	AIQ188	
CH-LS-07D	(dup)	0.025	2021/10/15	20	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530606.7	635460.1	C180131	AIQ189
CH-LS-08	0.025	2021/10/15	13	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530584.2	635470.6	C180131	AIQ190	
CH-LS-09	0.025	2021/10/15	9.7	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530591.4	635493.6	C180131	AIQ191	
CH-LS-10	0.025	2021/10/15	23	Chalmers	Lord Selkirk school (N-6)	S	WSD	5530561.5	635501.2	C180131	AIQ192	
CH-RE-01	0.025	2021/10/15	5.1	Chalmers	River Elm school (N-6)	S	WSD	5530017.6	636265.5	C180132	AIQ228	
CH-RE-02	0.025	2021/10/15	47	Chalmers	River Elm school (N-6)	S	WSD	5530014.3	636284.1	C180132	AIQ229	
CH-RE-03	0.025	2021/10/15	30	Chalmers	River Elm school (N-6)	S	WSD	5529956.8	636298.1	C180132	AIQ230	
CH-RE-04	0.025	2021/10/15	28	Chalmers	River Elm school (N-6)	S	WSD	5529950.8	636289	C180132	AIQ231	
CH-RE-05	0.025	2021/10/15	11	Chalmers	River Elm school (N-6)	S	WSD	5529944.6	636300.8	C180132	AIQ232	
CH-RE-06	0.025	2021/10/15	68	Chalmers	River Elm school (N-6)	S	WSD	5529933.5	636305.9	C180132	AIQ233	
CH-RE-07	0.025	2021/10/15	32	Chalmers	River Elm school (N-6)	S	WSD	5529929.8	636286.2	C180132	AIQ234	
CH-RE-08	0.025	2021/10/15	17	Chalmers	River Elm school (N-6)	S	WSD	5529921.9	636333.7	C180132	AIQ235	
CH-RE-08D	(dup)	0.025	2021/10/15	78	Chalmers	River Elm school (N-6)	S	WSD	5529921.9	636333.7	C180132	AIQ236
CH-RE-09	0.025	2021/10/15	19	Chalmers	River Elm school (N-6)	S	WSD	5529942.5	636321	C180132	AIQ237	
CH-RE-10	0.025	2021/10/15	54	Chalmers	River Elm school (N-6)	S	WSD	5529944	636340.2	C180132	AIQ238	
CH-RE-11	0.025	2021/10/15	85	Chalmers	River Elm school (N-6)	S	WSD	5529930	636363.2	C180132	AIQ239	
CH-RD-01	0.025	2021/10/15	14	Chalmers	Roy Davis Memorial Park	C	-	5530248.7	636356.4	C180132	AIQ249	
CH-RD-02	0.025	2021/10/15	48	Chalmers	Roy Davis Memorial Park	C	-	5530231.6	636335	C180132	AIQ250	
CH-RD-03	0.025	2021/10/15	120	Chalmers	Roy Davis Memorial Park	C	-	5530223.9	636341.9	C180132	AIQ251	
CH-RD-04	0.025	2021/10/15	47	Chalmers	Roy Davis Memorial Park	C	-	5530223.5	636356.7	C180132	AIQ252	
CH-RD-05	0.025	2021/10/15	130	Chalmers	Roy Davis Memorial Park	C	-	5530210.5	636323.5	C180132	AIQ253	
CH-RD-06	0.025	2021/10/15	55	Chalmers	Roy Davis Memorial Park	C	-	5530212.7	636335	C180132	AIQ254	
CH-RD-07	0.025	2021/10/15	3.4	Chalmers	Roy Davis Memorial Park	C	-	5530213.7	636345.8	C180132	AIQ255	
CH-RD-08	0.025	2021/10/15	47	Chalmers	Roy Davis Memorial Park	C	-	5530201.5	636352.1	C180132	AIQ256	
CH-RD-09	0.025	2021/10/15	62	Chalmers	Roy Davis Memorial Park	C	-	5530207.6	636366.2	C180132	AIQ257	
CH-RD-10	0.025	2021/10/15	130	Chalmers	Roy Davis Memorial Park	C	-	5530194.4	636386.8	C180132	AIQ258	
CH-UT-01	0.025	2021/10/15	46	Chalmers	Union Tot Lot	C	-	5530591.1	636185.6	C180131	AIQ208	
CH-UT-02	0.025	2021/10/15	44	Chalmers	Union Tot Lot	C	-	5530583.5	636192.6	C180131	AIQ209	
CH-UT-03	0.025	2021/10/15	51	Chalmers	Union Tot Lot	C	-	5530583.6	636203.2	C180131	AIQ210	
CH-UT-04	0.025	2021/10/15	30	Chalmers	Union Tot Lot	C	-	5530578.6	636184.5	C180131	AIQ211	
CH-UT-05	0.025	2021/10/15	46	Chalmers	Union Tot Lot	C	-	5530577.4	636176.5	C180131	AIQ212	

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mbgs - metres below ground surface

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m) Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140							
CRITERIA^b			100-210							
CH-UT-06	0.025	2021/10/15	25	Chalmers	Union Tot Lot	C	-	5530570 636175.7	C180131	AIQ213
CH-UT-07	0.025	2021/10/15	27	Chalmers	Union Tot Lot	C	-	5530564.9 636183.7	C180131	AIQ214
CH-UT-08	0.025	2021/10/15	26	Chalmers	Union Tot Lot	C	-	5530567.5 636193.3	C180131	AIQ215
CH-UT-09	0.025	2021/10/15	27	Chalmers	Union Tot Lot	C	-	5530574.2 636192.2	C180131	AIQ216
DM-HP-01	0.025	2021/11/23	240	Daniel McIntyre	Home Playground	C	-	5528726 631633.9	C193701	ALW027
DM-HP-02	0.025	2021/11/23	170	Daniel McIntyre	Home Playground	C	-	5528726 631649.7	C193701	ALW028
DM-HP-03	0.025	2021/11/23	53	Daniel McIntyre	Home Playground	C	-	5528727.1 631683.3	C193701	ALW029
DM-HP-04	0.025	2021/11/23	42	Daniel McIntyre	Home Playground	C	-	5528734.2 631689.7	C193701	ALW030
DM-HP-05	0.025	2021/11/23	30	Daniel McIntyre	Home Playground	C	-	5528738.6 631674.2	C193701	ALW031
DM-HP-06	0.025	2021/11/23	73	Daniel McIntyre	Home Playground	C	-	5528737.7 631660.3	C193701	ALW032
DM-HP-07	0.025	2021/11/23	63	Daniel McIntyre	Home Playground	C	-	5528753.1 631653.8	C193701	ALW033
DM-HP-07D (dup)	0.025	2021/11/23	58	Daniel McIntyre	Home Playground	C	-	5528753.1 631653.8	C193701	ALW034
DM-HP-08	0.025	2021/11/23	72	Daniel McIntyre	Home Playground	C	-	5528751.8 631639.5	C193701	ALW035
DM-JP-01	0.025	2021/11/23	150	Daniel McIntyre	Jacob Penner Park	C	-	5529157 631970.1	C193701	ALW054
DM-JP-02	0.025	2021/11/23	310	Daniel McIntyre	Jacob Penner Park	C	-	5529195.9 631977.4	C193701	ALW055
DM-JP-03	0.025	2021/11/23	97	Daniel McIntyre	Jacob Penner Park	C	-	5529243.5 631967.9	C193701	ALW056
DM-JP-04	0.025	2021/11/23	110	Daniel McIntyre	Jacob Penner Park	C	-	5529283.3 631975.4	C193701	ALW057
DM-JP-05	0.025	2021/11/23	16	Daniel McIntyre	Jacob Penner Park	C	-	5529287.4 632003.3	C193701	ALW058
DM-JP-06	0.025	2021/11/23	91	Daniel McIntyre	Jacob Penner Park	C	-	5529315 632016.5	C193701	ALW059
DM-JP-07	0.025	2021/11/23	140	Daniel McIntyre	Jacob Penner Park	C	-	5529313.3 632071.7	C193701	ALW060
DM-JP-08	0.025	2021/11/23	18	Daniel McIntyre	Jacob Penner Park	C	-	5529340.2 632038.7	C193701	ALW061
DM-JP-09	0.025	2021/11/23	70	Daniel McIntyre	Jacob Penner Park	C	-	5529346 631981.8	C193701	ALW062
DM-JP-10	0.025	2021/11/23	140	Daniel McIntyre	Jacob Penner Park	C	-	5529316.4 631972.3	C193701	ALW063
DM-JK-01	0.025	2021/11/23	26	Daniel McIntyre	John M King school (N-6)	S	WSD	5528376.4 632078.3	C193701	ALW036
DM-JK-02	0.025	2021/11/23	22	Daniel McIntyre	John M King school (N-6)	S	WSD	5528379.2 632049.2	C193701	ALW037
DM-JK-03	0.025	2021/11/23	14	Daniel McIntyre	John M King school (N-6)	S	WSD	5528397.2 632031	C193701	ALW038
DM-JK-04	0.025	2021/11/23	12	Daniel McIntyre	John M King school (N-6)	S	WSD	5528409.4 632052.4	C193701	ALW039
DM-JK-05	0.025	2021/11/23	13	Daniel McIntyre	John M King school (N-6)	S	WSD	5528407.7 632075.5	C193701	ALW040
DM-JK-06	0.025	2021/11/23	13	Daniel McIntyre	John M King school (N-6)	S	WSD	5528426.5 632082.6	C193701	ALW041
DM-JK-07	0.025	2021/11/23	7.5	Daniel McIntyre	John M King school (N-6)	S	WSD	5528433.1 632058.1	C193701	ALW042
DM-JK-07D (dup)	0.025	2021/11/23	5.2	Daniel McIntyre	John M King school (N-6)	S	WSD	5528433.1 632058.1	C193701	ALW043
DM-JK-08	0.025	2021/11/23	11	Daniel McIntyre	John M King school (N-6)	S	WSD	5528432.8 632034.4	C193701	ALW044
DM-JK-09	0.025	2021/11/23	11	Daniel McIntyre	John M King school (N-6)	S	WSD	5528458.8 632034.4	C193701	ALW045
DM-LP-01	0.025	2021/11/23	53	Daniel McIntyre	Lipton Park	C	-	5529350.3 631203.3	C193701	ALW064
DM-LP-02	0.025	2021/11/23	71	Daniel McIntyre	Lipton Park	C	-	5529349.8 631211.9	C193701	ALW065
DM-LP-03	0.025	2021/11/23	58	Daniel McIntyre	Lipton Park	C	-	5529349.7 631220.6	C193701	ALW066
DM-LP-04	0.025	2021/11/23	230	Daniel McIntyre	Lipton Park	C	-	5529349.9 631228.4	C193701	ALW067
DM-ML-01	0.025	2021/11/23	48	Daniel McIntyre	Maryland Tot Lot	C	-	5529099.3 632175	C193701	ALW046
DM-ML-02	0.025	2021/11/23	29	Daniel McIntyre	Maryland Tot Lot	C	-	5529110.5 632173.8	C193701	ALW047
DM-ML-03	0.025	2021/11/23	84	Daniel McIntyre	Maryland Tot Lot	C	-	5529121.1 632174.1	C193701	ALW048
DM-ML-04	0.025	2021/11/23	220	Daniel McIntyre	Maryland Tot Lot	C	-	5529117.6 632188.3	C193701	ALW049
DM-ML-05	0.025	2021/11/23	150	Daniel McIntyre	Maryland Tot Lot	C	-	5529119.4 632205.6	C193701	ALW050
DM-ML-05D (dup)	0.025	2021/11/23	150	Daniel McIntyre	Maryland Tot Lot	C	-	5529119.4 632205.6	C193701	ALW051
DM-ML-06	0.025	2021/11/23	89	Daniel McIntyre	Maryland Tot Lot	C	-	5529108.1 632200.8	C193701	ALW052
DM-ML-07	0.025	2021/11/23	36	Daniel McIntyre	Maryland Tot Lot	C	-	5529098.8 632204	C193701	ALW053
DM-ML-08	0.025	2021/11/23	100	Daniel McIntyre	Maryland Tot Lot	C	-	5529095.3 632189.6	C193701	ALW068
DM-WS-01	0.025	2021/11/24	4.8	Daniel McIntyre	Wellington school (N-6)	S	WSD	5528960.6 631722.6	C193682	ALV958
DM-WS-02	0.025	2021/11/24	14	Daniel McIntyre	Wellington school (N-6)	S	WSD	5528961.7 631748.7	C193682	ALV959
DM-WS-03	0.025	2021/11/24	6.4	Daniel McIntyre	Wellington school (N-6)	S	WSD	5528961.9 631771.4	C193682	ALV960

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SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
DM-WS-04	0.025	2021/11/24	9.6	Daniel McIntyre	Wellington school (N-6)	S	WSD	5528980.6	631767.6	C193682	ALV961
DM-WS-05	0.025	2021/11/24	9.2	Daniel McIntyre	Wellington school (N-6)	S	WSD	5528993.7	631745	C193682	ALV962
DM-WS-06	0.025	2021/11/24	35	Daniel McIntyre	Wellington school (N-6)	S	WSD	5529002.2	631775.6	C193682	ALV963
DM-WS-07	0.025	2021/11/24	12	Daniel McIntyre	Wellington school (N-6)	S	WSD	5529008.1	631759.9	C193682	ALV964
DM-WS-08	0.025	2021/11/24	20	Daniel McIntyre	Wellington school (N-6)	S	WSD	5529019.8	631742	C193682	ALV965
DM-WS-09	0.025	2021/11/24	30	Daniel McIntyre	Wellington school (N-6)	S	WSD	5529132.9	631767.4	C193682	ALV966
DM-WS-10	0.025	2021/11/24	59	Daniel McIntyre	Wellington school (N-6)	S	WSD	5529133.4	631733	C193682	ALV967
DU-IS-01	0.025	2021/11/05	180	Dufferin	Immaculate Heart of Mary school (N-8)	S	IS	5530967.1	632735	C187006	AKJ322
DU-IS-02	0.025	2021/11/05	42	Dufferin	Immaculate Heart of Mary school (N-8)	S	IS	5530972.8	632720.7	C187006	AKJ323
DU-IS-03	0.025	2021/11/05	15	Dufferin	Immaculate Heart of Mary school (N-8)	S	IS	5530980.4	632733.7	C187006	AKJ324
DU-IS-04	0.025	2021/11/05	42	Dufferin	Immaculate Heart of Mary school (N-8)	S	IS	5530988.2	632744.9	C187006	AKJ325
DU-IS-05	0.025	2021/11/05	290	Dufferin	Immaculate Heart of Mary school (N-8)	S	IS	5530993.8	632729.6	C187006	AKJ326
DU-IH-01	0.025	2021/11/04	86	Dufferin	Immaculate Heart Playground	C	-	5530928.9	632650.6	C187006	AKJ307
DU-IH-02	0.025	2021/11/04	19	Dufferin	Immaculate Heart Playground	C	-	5530938.3	632631.4	C187006	AKJ308
DU-IH-03	0.025	2021/11/04	42	Dufferin	Immaculate Heart Playground	C	-	5530938.5	632641.5	C187006	AKJ309
DU-IH-04	0.025	2021/11/04	31	Dufferin	Immaculate Heart Playground	C	-	5530940.8	632655.7	C187006	AKJ310
DU-IH-05	0.025	2021/11/04	65	Dufferin	Immaculate Heart Playground	C	-	5530950.7	632659.9	C187006	AKJ311
DU-IH-06	0.025	2021/11/04	20	Dufferin	Immaculate Heart Playground	C	-	5530961.3	632659	C187006	AKJ312
DU-IH-07	0.025	2021/11/04	36	Dufferin	Immaculate Heart Playground	C	-	5530965.6	632666	C187006	AKJ313
DU-IH-08	0.025	2021/11/04	41	Dufferin	Immaculate Heart Playground	C	-	5530977.1	632647.6	C187006	AKJ314
DU-IH-09	0.025	2021/11/04	17	Dufferin	Immaculate Heart Playground	C	-	5530967.1	632648.3	C187006	AKJ315
DU-IH-10	0.025	2021/11/04	17	Dufferin	Immaculate Heart Playground	C	-	5530956.1	632639.1	C187006	AKJ316
DU-NM-01	0.025	2021/11/05	47	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530625.6	633339.6	C187006	AKJ327
DU-NM-02	0.025	2021/11/05	23	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530663.7	633355.6	C187006	AKJ328
DU-NM-03	0.025	2021/11/05	25	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530694.5	633369.9	C187006	AKJ329
DU-NM-04	0.025	2021/11/05	16	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530686.3	633347.1	C187006	AKJ330
DU-NM-05	0.025	2021/11/05	19	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530709.3	633333.8	C187006	AKJ331
DU-NM-06	0.025	2021/11/05	19	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530726.8	633296	C187006	AKJ332
DU-NM-07	0.025	2021/11/05	22	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530700.6	633309.3	C187006	AKJ333
DU-NM-08	0.025	2021/11/05	15	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530672.5	633320.7	C187006	AKJ334
DU-NM-09	0.025	2021/11/05	20	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530695.7	633280.7	C187006	AKJ335
DU-NM-10	0.025	2021/11/05	17	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530652.8	633254.2	C187006	AKJ336
DU-NM-10D (dup)	0.025	2021/11/05	7.5	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530652.8	633254.2	C187006	AKJ337
DU-NM-11	0.025	2021/11/05	97	Dufferin	Niji Mahkwa (N-8) and Children of Earth (9-12) schools	S	WSD	5530766.6	633218.1	C187006	AKJ338
DU-OE-01	0.025	2021/11/04	15	Dufferin	Old Exhibition Athletic Grounds	C	-	5531148.5	632021	C187006	AKJ286
DU-OE-02	0.025	2021/11/04	27	Dufferin	Old Exhibition Athletic Grounds	C	-	5531215.8	632020.1	C187006	AKJ287
DU-OE-03	0.025	2021/11/04	11	Dufferin	Old Exhibition Athletic Grounds	C	-	5531233.6	632044.7	C187006	AKJ288
DU-OE-04	0.025	2021/11/04	55	Dufferin	Old Exhibition Athletic Grounds	C	-	5531242.5	632070.9	C187006	AKJ289
DU-OE-05	0.025	2021/11/04	54	Dufferin	Old Exhibition Athletic Grounds	C	-	5531277.4	632045.9	C187006	AKJ290
DU-OE-06	0.025	2021/11/04	220	Dufferin	Old Exhibition Athletic Grounds	C	-	5531275.7	632005.2	C187006	AKJ291
DU-OE-07	0.025	2021/11/04	62	Dufferin	Old Exhibition Athletic Grounds	C	-	5531246.6	632022.6	C187006	AKJ292
DU-OE-08	0.025	2021/11/04	95	Dufferin	Old Exhibition Athletic Grounds	C	-	5531240	631979.4	C187006	AKJ293
DU-OE-09	0.025	2021/11/04	14	Dufferin	Old Exhibition Athletic Grounds	C	-	5531203.4	631840.6	C187006	AKJ294
DU-OE-10	0.025	2021/11/04	6	Dufferin	Old Exhibition Athletic Grounds	C	-	5531289	631860.5	C187006	AKJ295
DU-OE-10D (dup)	0.025	2021/11/04	7	Dufferin	Old Exhibition Athletic Grounds	C	-	5531289	631860.5	C187006	AKJ296
DU-OE-11	0.025	2021/11/04	13	Dufferin	Old Exhibition Athletic Grounds	C	-	5531349.7	631893.8	C187006	AKJ297
DU-OE-12	0.025	2021/11/04	8.8	Dufferin	Old Exhibition Athletic Grounds	C	-	5531372.2	631788.2	C187006	AKJ298
DU-OE-13	0.025	2021/11/04	12	Dufferin	Old Exhibition Athletic Grounds	C	-	5531274	631761.6	C187006	AKJ299
DU-OE-14	0.025	2021/11/04	37	Dufferin	Old Exhibition Athletic Grounds	C	-	5531309.8	631666	C187006	AKJ300
DU-OE-15	0.025	2021/11/04	28	Dufferin	Old Exhibition Athletic Grounds	C	-	5531415.4	631714.2	C187006	AKJ301
DU-OE-16	0.025	2021/11/04	14	Dufferin	Old Exhibition Athletic Grounds	C	-	5531456.1	631616.9	C187006	AKJ302

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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
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DU-OE-17	0.025	2021/11/04	12	Dufferin	Old Exhibition Athletic Grounds	C	-	5531354.7	631570.3	C187006	AKJ303
DU-OE-18	0.025	2021/11/04	23	Dufferin	Old Exhibition Athletic Grounds	C	-	5531364.7	631457.3	C187006	AKJ304
DU-OE-19	0.025	2021/11/04	53	Dufferin	Old Exhibition Athletic Grounds	C	-	5531432.8	631503.8	C187006	AKJ305
DU-OE-20	0.025	2021/11/04	30	Dufferin	Old Exhibition Athletic Grounds	C	-	5531511	631532.1	C187006	AKJ306
DU-TP-01	0.025	2021/11/05	69	Dufferin	Sargent Tommy Prince MM Veterans Park	C	-	5531265.1	631950.7	C187006	AKJ317
DU-TP-02	0.025	2021/11/05	23	Dufferin	Sargent Tommy Prince MM Veterans Park	C	-	5531374.1	631970.3	C187006	AKJ318
DU-TP-03	0.025	2021/11/05	25	Dufferin	Sargent Tommy Prince MM Veterans Park	C	-	5531420	631872.5	C187006	AKJ319
DU-TP-04	0.025	2021/11/05	55	Dufferin	Sargent Tommy Prince MM Veterans Park	C	-	5531473.5	631752.3	C187006	AKJ320
DU-TP-05	0.025	2021/11/05	77	Dufferin	Sargent Tommy Prince MM Veterans Park	C	-	5531548.1	631649.1	C187006	AKJ321
DF-KP-01	0.025	2021/10/22	89	Dufresne	Kavanagh Park	C	-	5527639.2	636124.4	C181837	AJB237
DF-KP-01D (dup)	0.025	2021/10/22	110	Dufresne	Kavanagh Park	C	-	5527639.2	636124.4	C181837	AJB238
DF-KP-02	0.025	2021/10/22	190	Dufresne	Kavanagh Park	C	-	5527525.1	636085.6	C181837	AJB239
DF-KP-03	0.025	2021/10/22	36	Dufresne	Kavanagh Park	C	-	5527500.4	636156.1	C181837	AJB240
DF-PG-01	0.025	2021/10/22	15	Dufresne	Kavanagh Playground	C	-	5527616.3	636229.9	C181837	AJB241
DF-PG-02	0.025	2021/10/22	18	Dufresne	Kavanagh Playground	C	-	5527633.6	636229	C181837	AJB242
DF-PG-03	0.025	2021/10/22	26	Dufresne	Kavanagh Playground	C	-	5527646	636230	C181837	AJB243
DF-PG-04	0.025	2021/10/22	19	Dufresne	Kavanagh Playground	C	-	5527647.1	636250.1	C181837	AJB244
DF-PG-05	0.025	2021/10/22	18	Dufresne	Kavanagh Playground	C	-	5527632.5	636248.7	C181837	AJB245
DF-PG-06	0.025	2021/10/22	17	Dufresne	Kavanagh Playground	C	-	5527616.1	636246.2	C181837	AJB246
DF-PG-07	0.025	2021/10/22	17	Dufresne	Kavanagh Playground	C	-	5527624.8	636263	C181837	AJB247
DF-PG-08	0.025	2021/10/22	34	Dufresne	Kavanagh Playground	C	-	5527638.5	636270	C181837	AJB248
DF-PG-09	0.025	2021/10/22	18	Dufresne	Kavanagh Playground	C	-	5527643.3	636263.6	C181837	AJB249
DF-PG-10	0.025	2021/10/22	18	Dufresne	Kavanagh Playground	C	-	5527646.7	636269.1	C181837	AJB250
DF-PG-11	0.025	2021/10/22	15	Dufresne	Kavanagh Playground	C	-	5527635.2	636263.6	C181837	AJB251
DF-PG-12	0.025	2021/10/22	14	Dufresne	Kavanagh Playground	C	-	5527618	636269.5	C181837	AJB252
DF-PG-13	0.025	2021/10/22	17	Dufresne	Kavanagh Playground	C	-	5527626.3	636220.3	C181837	AJB253
DF-MD-01	0.025	2021/10/22	200	Dufresne	Marion-Dufresne Riverbank	C	-	5527261.7	636227	C181837	AJB234
DF-MD-02	0.025	2021/10/22	43	Dufresne	Marion-Dufresne Riverbank	C	-	5527325.7	636318.5	C181837	AJB235
DF-MD-03	0.025	2021/10/22	43	Dufresne	Marion-Dufresne Riverbank	C	-	5527410.6	636268.6	C181837	AJB236
EE-CR-01	0.025	2021/10/12	29	East Elmwood	Clyde Road Park	C	-	5529545.8	638447.6	C178265V1	AEI726
EE-CR-02	0.025	2021/10/12	28	East Elmwood	Clyde Road Park	C	-	5529518.7	638452.8	C178265V1	AEI727
EE-CR-03	0.025	2021/10/12	29	East Elmwood	Clyde Road Park	C	-	5529509.5	638437.4	C178265V1	AEI728
EE-EE-01	0.025	2021/10/13	48	East Elmwood	East Elmwood Park	C	-	5529837.7	637943	C178765V1	AIH498
EE-EE-02	0.025	2021/10/13	23	East Elmwood	East Elmwood Park	C	-	5529820.2	637877.1	C178765V1	AIH499
EE-EE-03	0.025	2021/10/13	29	East Elmwood	East Elmwood Park	C	-	5529787.5	637934.4	C178765V1	AIH500
EE-EE-04	0.025	2021/10/13	13	East Elmwood	East Elmwood Park	C	-	5529743.9	637905	C178765V1	AIH501
EE-EE-05	0.025	2021/10/13	13	East Elmwood	East Elmwood Park	C	-	5529720	637908.9	C178765V1	AIH502
EE-EE-06	0.025	2021/10/13	10	East Elmwood	East Elmwood Park	C	-	5529716.7	637894.5	C178765V1	AIH503
EE-EE-07	0.025	2021/10/13	19	East Elmwood	East Elmwood Park	C	-	5529703.5	637912	C178765V1	AIH504
EE-EE-08	0.025	2021/10/13	21	East Elmwood	East Elmwood Park	C	-	5529684.8	637906.2	C178765V1	AIH505
EE-EE-08D (dup)	0.025	2021/10/13	23	East Elmwood	East Elmwood Park	C	-	5529684.8	637906.2	C178765V1	AIH506
EE-EE-09	0.025	2021/10/13	11	East Elmwood	East Elmwood Park	C	-	5529697.9	637881.7	C178765V1	AIH507
EE-EE-10	0.025	2021/10/13	12	East Elmwood	East Elmwood Park	C	-	5529718.2	637849.8	C178765V1	AIH508
EE-EE-11	0.025	2021/10/13	14	East Elmwood	East Elmwood Park	C	-	5529770.6	637863	C178765V1	AIH509
EE-HH-01	0.025	2021/10/12	68	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529722.9	638259.9	C178265V1	AEI729
EE-HH-01D (dup)	0.025	2021/10/12	69	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529722.9	638259.9	C178265V1	AEI730
EE-HH-02	0.025	2021/10/12	28	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529691.5	638285.6	C178265V1	AEI731
EE-HH-03	0.025	2021/10/12	24	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529671	638292.4	C178265V1	AEI732

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CRITERIA^b			100-210								
EE-HH-04	0.025	2021/10/12	32	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529650.2	638274.7	C178265V1	AEI733
EE-HH-05	0.025	2021/10/12	20	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529656.1	638242.1	C178265V1	AEI734
EE-HH-06	0.025	2021/10/12	9.1	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529657.7	638228.8	C178265V1	AEI735
EE-HH-07	0.025	2021/10/12	13	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529667.4	638218.6	C178265V1	AEI736
EE-HH-08	0.025	2021/10/12	11	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529677.8	638226.4	C178265V1	AEI737
EE-HH-09	0.025	2021/10/12	19	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529690.4	638235	C178265V1	AEI738
EE-HH-10	0.025	2021/10/12	27	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529679.1	638244.9	C178265V1	AEI739
EE-HH-11	0.025	2021/10/12	17	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529667	638249.8	C178265V1	AEI740
EE-HH-12	0.025	2021/10/12	30	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529679.1	638263.7	C178265V1	AEI741
EE-HH-13	0.025	2021/10/12	35	East Elmwood	Hap Hopkinson Memorial Park	C	-	5529693.5	638257.3	C178265V1	AEI742
EE-KR-01	0.025	2021/10/13	14	East Elmwood	Kent Road school (N-6)	S	WSD	5529883.4	637849.2	C178765V1	AIH478
EE-KR-02	0.025	2021/10/13	19	East Elmwood	Kent Road school (N-6)	S	WSD	5529849.9	637847.5	C178765V1	AIH479
EE-KR-03	0.025	2021/10/13	19	East Elmwood	Kent Road school (N-6)	S	WSD	5529857	637830.6	C178765V1	AIH480
EE-KR-04	0.025	2021/10/13	25	East Elmwood	Kent Road school (N-6)	S	WSD	5529873.8	637826.8	C178765V1	AIH481
EE-KR-05	0.025	2021/10/13	28	East Elmwood	Kent Road school (N-6)	S	WSD	5529880.2	637809.1	C178765V1	AIH482
EE-KR-06	0.025	2021/10/13	24	East Elmwood	Kent Road school (N-6)	S	WSD	5529868.8	637807.3	C178765V1	AIH483
EE-KR-07	0.025	2021/10/13	10	East Elmwood	Kent Road school (N-6)	S	WSD	5529873.1	637782.7	C178765V1	AIH484
EE-KR-08	0.025	2021/10/13	8.4	East Elmwood	Kent Road school (N-6)	S	WSD	5529862.1	637797	C178765V1	AIH485
EE-KR-09	0.025	2021/10/13	25	East Elmwood	Kent Road school (N-6)	S	WSD	5529849.9	637809.6	C178765V1	AIH486
EE-KR-10	0.025	2021/10/13	13	East Elmwood	Kent Road school (N-6)	S	WSD	5529822.3	637832.8	C178765V1	AIH487
EE-KR-11	0.025	2021/10/13	16	East Elmwood	Kent Road school (N-6)	S	WSD	5529800	637799.9	C178765V1	AIH488
EE-KR-12	0.025	2021/10/13	23	East Elmwood	Kent Road school (N-6)	S	WSD	5529772.2	637818.5	C178765V1	AIH489
EE-KR-13	0.025	2021/10/13	47	East Elmwood	Kent Road school (N-6)	S	WSD	5529739.2	637789.8	C178765V1	AIH490
EE-KR-14	0.025	2021/10/13	31	East Elmwood	Kent Road school (N-6)	S	WSD	5529714	637809.6	C178765V1	AIH491
EE-KR-15	0.025	2021/10/13	210	East Elmwood	Kent Road school (N-6)	S	WSD	5529714.8	637756.6	C178765V1	AIH492
EE-KR-16	0.025	2021/10/13	14	East Elmwood	Kent Road school (N-6)	S	WSD	5529766.2	637708.4	C178765V1	AIH493
EE-KR-17	0.025	2021/10/13	39	East Elmwood	Kent Road school (N-6)	S	WSD	5529796.3	637715	C178765V1	AIH494
EE-KR-17D (dup)	0.025	2021/10/13	40	East Elmwood	Kent Road school (N-6)	S	WSD	5529796.3	637715	C178765V1	AIH495
EE-KR-18	0.025	2021/10/13	70	East Elmwood	Kent Road school (N-6)	S	WSD	5529822.6	637720.2	C178765V1	AIH496
EE-KR-19	0.025	2021/10/13	48	East Elmwood	Kent Road school (N-6)	S	WSD	5529841.8	637726.8	C178765V1	AIH497
EE-MP-01	0.025	2021/10/12	30	East Elmwood	McCalman Parkette East	C	-	5529397.5	638014.7	C178265V1	AEI723
EE-MP-02	0.025	2021/10/12	34	East Elmwood	McCalman Parkette East	C	-	5529391.7	638048.6	C178265V1	AEI724
EE-MP-03	0.025	2021/10/12	46	East Elmwood	McCalman Parkette East	C	-	5529389.8	638081	C178265V1	AEI725
EE-RR-01	0.025	2021/10/13	66	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529668.1	636620.2	C178765V1	AIH521
EE-RR-02	0.025	2021/10/13	120	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529678.4	636661.2	C178765V1	AIH522
EE-RR-03	0.025	2021/10/13	340	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529661.2	636680.1	C178765V1	AIH523
EE-RR-04	0.025	2021/10/13	83	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529665.3	636707.9	C178765V1	AIH524
EE-RR-05	0.025	2021/10/13	19	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529686.3	636704	C178765V1	AIH525
EE-RR-06	0.025	2021/10/13	85	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529685.7	636758.3	C178765V1	AIH526
EE-RR-07	0.025	2021/10/13	140	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529665.4	636753.2	C178765V1	AIH527
EE-RR-08	0.025	2021/10/13	110	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529647.4	636748.8	C178765V1	AIH528
EE-RR-09	0.025	2021/10/13	110	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529633.7	636744.8	C178765V1	AIH529
EE-RR-09D (dup)	0.025	2021/10/13	120	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529633.7	636744.8	C178765V1	AIH530
EE-RR-10	0.025	2021/10/13	150	East Elmwood	Prairie Central Adventist Academy (N-12) (formerly Red River Valley Academy)	S	IS	5529636.7	636726.6	C178765V1	AIH531
EE-SS-01	0.025	2021/10/12	23	East Elmwood	Sir Sam Steele Park	C	-	5529602.4	637405.8	C178265V1	AEI743
EE-SS-02	0.025	2021/10/12	32	East Elmwood	Sir Sam Steele Park	C	-	5529596.2	637427.7	C178265V1	AEI744
EE-SS-03	0.025	2021/10/12	17	East Elmwood	Sir Sam Steele Park	C	-	5529591.3	637439.3	C178265V1	AEI745
EE-SS-04	0.025	2021/10/12	17	East Elmwood	Sir Sam Steele Park	C	-	5529593.1	637445.5	C178265V1	AEI746
EE-SS-05	0.025	2021/10/12	27	East Elmwood	Sir Sam Steele Park	C	-	5529597.6	637453.5	C178265V1	AEI747
EE-SS-06	0.025	2021/10/12	54	East Elmwood	Sir Sam Steele Park	C	-	5529593.1	637458.9	C178265V1	AEI748
EE-SS-07	0.025	2021/10/12	48	East Elmwood	Sir Sam Steele Park	C	-	5529587.2	637458	C178265V1	AEI749

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsik Corp., Nov. 29, 2019.

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BOLD - Equals to or exceeds applicable Intrinsik criterion

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
			140								
CRITERIA ^a			100-210								
EE-SS-08	0.025	2021/10/12	34	East Elmwood	Sir Sam Steele Park	C	-	5529581.9	637451.4	C178265V1	AIET50
EE-SS-09	0.025	2021/10/12	20	East Elmwood	Sir Sam Steele Park	C	-	5529580.4	637442	C178265V1	AIET51
EE-SS-10	0.025	2021/10/12	44	East Elmwood	Sir Sam Steele Park	C	-	5529583	637433.5	C178265V1	AIET52
EE-SG-01	0.025	2021/10/13	190	East Elmwood	St. Gerard school (N-8)	S	IS	5529729.9	636850.5	C178765V1	AIH510
EE-SG-02	0.025	2021/10/13	37	East Elmwood	St. Gerard school (N-8)	S	IS	5529733	636879.6	C178765V1	AIH511
EE-SG-03	0.025	2021/10/13	56	East Elmwood	St. Gerard school (N-8)	S	IS	5529745.3	636916.3	C178765V1	AIH512
EE-SG-04	0.025	2021/10/13	78	East Elmwood	St. Gerard school (N-8)	S	IS	5529748.1	636938.6	C178765V1	AIH513
EE-SG-05	0.025	2021/10/13	66	East Elmwood	St. Gerard school (N-8)	S	IS	5529738.8	636950.4	C178765V1	AIH514
EE-SG-06	0.025	2021/10/13	54	East Elmwood	St. Gerard school (N-8)	S	IS	5529754.3	636952.5	C178765V1	AIH515
EE-SG-07	0.025	2021/10/13	59	East Elmwood	St. Gerard school (N-8)	S	IS	5529757.4	636970.7	C178765V1	AIH516
EE-SG-08	0.025	2021/10/13	82	East Elmwood	St. Gerard school (N-8)	S	IS	5529751.8	636983.9	C178765V1	AIH517
EE-SG-09	0.025	2021/10/13	65	East Elmwood	St. Gerard school (N-8)	S	IS	5529742	636982.8	C178765V1	AIH518
EE-SG-10	0.025	2021/10/13	32	East Elmwood	St. Gerard school (N-8)	S	IS	5529714.6	636991.1	C178765V1	AIH519
EE-SG-11	0.025	2021/10/13	32	East Elmwood	St. Gerard school (N-8)	S	IS	5529699.7	636986.7	C178765V1	AIH520
GE-EP-01	0.025	2021/10/14	30	Glenelm	Elmwood Park	C	-	5531299.7	635190.8	C180124	AIQ104
GE-EP-02	0.025	2021/10/14	48	Glenelm	Elmwood Park	C	-	5531286.5	635264.5	C180124	AIQ105
GE-EP-03	0.025	2021/10/14	34	Glenelm	Elmwood Park	C	-	5531264.5	635327.2	C180124	AIQ106
GE-EP-04	0.025	2021/10/14	64	Glenelm	Elmwood Park	C	-	5531265.9	635380.2	C180124	AIQ107
GE-EP-05	0.025	2021/10/14	31	Glenelm	Elmwood Park	C	-	5531256.5	635409.5	C180124	AIQ108
GE-EP-06	0.025	2021/10/14	32	Glenelm	Elmwood Park	C	-	5531241.1	635390.1	C180124	AIQ109
GE-EP-07	0.025	2021/10/14	79	Glenelm	Elmwood Park	C	-	5531227.4	635437.5	C180124	AIQ110
GE-EP-08	0.025	2021/10/14	12	Glenelm	Elmwood Park	C	-	5531199.5	635422.8	C180124	AIQ111
GE-EP-09	0.025	2021/10/14	17	Glenelm	Elmwood Park	C	-	5531203.6	635390.3	C180124	AIQ112
GE-EP-10	0.025	2021/10/14	46	Glenelm	Elmwood Park	C	-	5531214.1	635365.6	C180124	AIQ113
GE-GE-01	0.025	2021/10/14	40	Glenelm	Glenelm school (N-6)	S	WSD	5530995.3	635185.6	C180124	AIQ095
GE-GE-02	0.025	2021/10/14	32	Glenelm	Glenelm school (N-6)	S	WSD	5530985.7	635202.1	C180124	AIQ096
GE-GE-03	0.025	2021/10/14	21	Glenelm	Glenelm school (N-6)	S	WSD	5531012.7	635199	C180124	AIQ097
GE-GE-04	0.025	2021/10/14	15	Glenelm	Glenelm school (N-6)	S	WSD	5531007.9	635213.8	C180124	AIQ098
GE-GE-05	0.025	2021/10/14	12	Glenelm	Glenelm school (N-6)	S	WSD	5531003.8	635203.7	C180124	AIQ099
GE-GE-06	0.025	2021/10/14	36	Glenelm	Glenelm school (N-6)	S	WSD	5530991.3	635207.6	C180124	AIQ100
GE-GE-07	0.025	2021/10/14	44	Glenelm	Glenelm school (N-6)	S	WSD	5530988.5	635195.9	C180124	AIQ101
GE-GE-07D (dup)	0.025	2021/10/14	20	Glenelm	Glenelm school (N-6)	S	WSD	5530988.5	635195.9	C180124	AIQ102
GE-GE-08	0.025	2021/10/14	55	Glenelm	Glenelm school (N-6)	S	WSD	5530999.3	635191.7	C180124	AIQ103
GE-HP-01	0.025	2021/10/14	61	Glenelm	Hespeler Park	C	-	5530935.6	634696	C180124	AIQ114
GE-HP-02	0.025	2021/10/14	100	Glenelm	Hespeler Park	C	-	5530923.5	634696.3	C180124	AIQ115
GE-HP-03	0.025	2021/10/14	110	Glenelm	Hespeler Park	C	-	5530912	634698.3	C180124	AIQ116
GE-HP-04	0.025	2021/10/14	140	Glenelm	Hespeler Park	C	-	5530919.5	634704.7	C180124	AIQ117
GE-HP-05	0.025	2021/10/14	54	Glenelm	Hespeler Park	C	-	5530926.6	634713.1	C180124	AIQ118
GE-HP-06	0.025	2021/10/14	25	Glenelm	Hespeler Park	C	-	5530918.8	634731.4	C180124	AIQ119
GE-HP-07	0.025	2021/10/14	24	Glenelm	Hespeler Park	C	-	5530913.7	634738.9	C180124	AIQ120
GE-HP-07D (dup)	0.025	2021/10/14	27	Glenelm	Hespeler Park	C	-	5530913.7	634738.9	C180124	AIQ121
GE-HP-08	0.025	2021/10/14	14	Glenelm	Hespeler Park	C	-	5530901.5	634743.8	C180124	AIQ122
GE-HP-09	0.025	2021/10/14	26	Glenelm	Hespeler Park	C	-	5530898.6	634730.8	C180124	AIQ123
GE-HP-10	0.025	2021/10/14	34	Glenelm	Hespeler Park	C	-	5530900	634720.2	C180124	AIQ124
GE-HP-11	0.025	2021/10/14	55	Glenelm	Hespeler Park	C	-	5530910.9	634716.2	C180124	AIQ125
GE-TT-01	0.025	2021/10/14	91	Glenelm	Talbot Tot Lot	C	-	5530282.9	634960.1	C180124	AIQ126
GE-TT-02	0.025	2021/10/14	28	Glenelm	Talbot Tot Lot	C	-	5530275.5	634957.6	C180124	AIQ127
GE-TT-03	0.025	2021/10/14	81	Glenelm	Talbot Tot Lot	C	-	5530276.6	634964.5	C180124	AIQ128
GE-TT-04	0.025	2021/10/14	8.1	Glenelm	Talbot Tot Lot	C	-	5530275.1	634971.3	C180124	AIQ129
GE-TT-05	0.025	2021/10/14	15	Glenelm	Talbot Tot Lot	C	-	5530268.3	634972.4	C180124	AIQ130

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(re-run) - Sample re-run by laboratory on original soil

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m) Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140							
CRITERIA^b			100-210							
GE-TT-06	0.025	2021/10/14	93	Glenelm	Talbot Tot Lot	C	-	5530259.6 634964.4	C180124	AIQ131
GE-TT-07	0.025	2021/10/14	56	Glenelm	Talbot Tot Lot	C	-	5530254.2 634959.7	C180124	AIQ132
GE-TT-08	0.025	2021/10/14	87	Glenelm	Talbot Tot Lot	C	-	5530262.7 634952.3	C180124	AIQ133
GE-TT-09	0.025	2021/10/14	36	Glenelm	Talbot Tot Lot	C	-	5530270.9 634952.8	C180124	AIQ134
HD-LP-01	0.025	2021/10/25	27	Holden	Lambert Park	C	-	5527474.5 638303.4	C182766	AJG592
HD-LP-02	0.025	2021/10/25	41	Holden	Lambert Park	C	-	5527463.4 638354.7	C182766	AJG593
HD-LP-03	0.025	2021/10/25	570	Holden	Lambert Park	C	-	5527489.7 638351.8	C182766	AJG594
HD-LP-03R1	0.025	2021/11/22	990	Holden	Lambert Park	C	-	5527490.8 638352.2	C193697	ALW012
HD-LP-03R2	0.025	2021/11/22	490	Holden	Lambert Park	C	-	5527489.4 638351	C193697	ALW013
HD-LP-03R3	0.025	2021/11/22	110	Holden	Lambert Park	C	-	5527492.4 638349.5	C193697	ALW014
HD-LP-03R4	0.025	2021/11/22	130	Holden	Lambert Park	C	-	5527487.1 638355.8	C193697	ALW015
HD-LP-04	0.025	2021/10/25	92	Holden	Lambert Park	C	-	5527490.4 638365.1	C182766	AJG595
HD-LP-05	0.025	2021/10/25	39	Holden	Lambert Park	C	-	5527496.5 638371.2	C182766	AJG596
HD-LP-06	0.025	2021/10/25	15	Holden	Lambert Park	C	-	5527488.2 638383.4	C182766	AJG597
HD-LP-07	0.025	2021/10/25	59	Holden	Lambert Park	C	-	5527491.1 638394.1	C182766	AJG598
HD-LP-08	0.025	2021/10/25	14	Holden	Lambert Park	C	-	5527481.9 638384.5	C182766	AJG599
HD-LP-09	0.025	2021/10/25	47	Holden	Lambert Park	C	-	5527481.2 638366.2	C182766	AJG600
HD-LP-10	0.025	2021/10/25	38	Holden	Lambert Park	C	-	5527473.6 638374.1	C182766	AJG601
HD-LP-11	0.025	2021/10/25	29	Holden	Lambert Park	C	-	5527457.6 638391.6	C182766	AJG602
HD-LP-12	0.025	2021/10/25	46	Holden	Lambert Park	C	-	5527460.3 638423	C182766	AJG603
HD-LP-13	0.025	2021/10/25	35	Holden	Lambert Park	C	-	5527439.3 638417.1	C182766	AJG604
HD-LP-14	0.025	2021/10/25	36	Holden	Lambert Park	C	-	5527452.3 638375	C182766	AJG605
HD-LP-15	0.025	2021/10/25	70	Holden	Lambert Park	C	-	5527478.9 638350.8	C182766	AJG606
HD-LP-16	0.025	2021/10/25	43	Holden	Lambert Park	C	-	5527477.4 638398.7	C182766	AJG607
IF-AL-01	0.025	2021/11/05	120	Inkster-Faraday	Arlington Tot Lot	C	-	5532832.6 633202.6	C187477	AKN335
IF-AL-02	0.025	2021/11/05	160	Inkster-Faraday	Arlington Tot Lot	C	-	5532849.1 633208.3	C187477	AKN336
IF-AL-03	0.025	2021/11/05	180	Inkster-Faraday	Arlington Tot Lot	C	-	5532847.9 633191.9	C187477	AKN337
IF-AL-04	0.025	2021/11/05	76	Inkster-Faraday	Arlington Tot Lot	C	-	5532847 633169.6	C187477	AKN338
IF-AL-05	0.025	2021/11/05	77	Inkster-Faraday	Arlington Tot Lot	C	-	5532864.2 633181.1	C187477	AKN339
IF-AL-06	0.025	2021/11/05	130	Inkster-Faraday	Arlington Tot Lot	C	-	5532860.9 633159.8	C187477	AKN340
IF-AL-07	0.025	2021/11/05	67	Inkster-Faraday	Arlington Tot Lot	C	-	5532860.1 633142.1	C187477	AKN341
IF-AL-08	0.025	2021/11/05	81	Inkster-Faraday	Arlington Tot Lot	C	-	5532876 633150.5	C187477	AKN342
IF-FS-01	0.025	2021/11/05	12	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532001.1 632961.1	C187477	AKN360
IF-FS-02	0.025	2021/11/05	79	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532018.2 632924.6	C187477	AKN361
IF-FS-03	0.025	2021/11/05	20	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532019.8 632950.8	C187477	AKN362
IF-FS-04	0.025	2021/11/05	34	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532027.4 632974.7	C187477	AKN363
IF-FS-05	0.025	2021/11/05	20	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532036.4 632949.2	C187477	AKN364
IF-FS-05D (dup)	0.025	2021/11/05	25	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532036.4 632949.2	C187477	AKN365
IF-FS-06	0.025	2021/11/05	14	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532043 632970.9	C187477	AKN366
IF-FS-07	0.025	2021/11/05	20	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532051 632986.2	C187477	AKN367
IF-FS-08	0.025	2021/11/05	18	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532057.6 632967.4	C187477	AKN368
IF-FS-09	0.025	2021/11/05	38	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532069.6 632898.8	C187477	AKN369
IF-FS-10	0.025	2021/11/05	79	Inkster-Faraday	Faraday school (N-6)	S	WSD	5532101.9 632911.7	C187477	AKN370
IF-IS-01	0.025	2021/11/05	70	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532825.3 633475.7	C187477	AKN371
IF-IS-02	0.025	2021/11/05	44	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532860.5 633391.9	C187477	AKN372
IF-IS-03	0.025	2021/11/05	45	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532873.7 633374.1	C187477	AKN373
IF-IS-04	0.025	2021/11/05	48	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532894.5 633327.7	C187477	AKN374
IF-IS-05	0.025	2021/11/05	130	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532918.7 633340.3	C187477	AKN375
IF-IS-06	0.025	2021/11/05	21	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532941.5 633351.5	C187477	AKN376
IF-IS-07	0.025	2021/11/05	120	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532909.3 633362	C187477	AKN377
IF-IS-08	0.025	2021/11/05	130	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532898.6 633390.8	C187477	AKN378

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**- Not applicable

(dup) - Duplicate

mbgs - metres below ground surface

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
IF-IS-09	0.025	2021/11/05	68	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532920.7	633389.4	C187477	AKN379
IF-IS-10	0.025	2021/11/05	17	Inkster-Faraday	Inkster school (N-6)	S	WSD	5532879.4	633501.9	C187477	AKN380
IF-ML-01	0.025	2021/11/05	110	Inkster-Faraday	McKenzie Tot Lot	C	-	5532662.6	633561.2	C187477	AKN351
IF-ML-01D (dup)	0.025	2021/11/05	140	Inkster-Faraday	McKenzie Tot Lot	C	-	5532662.6	633561.2	C187477	AKN352
IF-ML-02	0.025	2021/11/05	48	Inkster-Faraday	McKenzie Tot Lot	C	-	5532684.1	633571.1	C187477	AKN353
IF-ML-03	0.025	2021/11/05	220	Inkster-Faraday	McKenzie Tot Lot	C	-	5532681.6	633553.8	C187477	AKN354
IF-ML-04	0.025	2021/11/05	77	Inkster-Faraday	McKenzie Tot Lot	C	-	5532697.8	633542.5	C187477	AKN355
IF-ML-05	0.025	2021/11/05	29	Inkster-Faraday	McKenzie Tot Lot	C	-	5532711.9	633513.4	C187477	AKN356
IF-ML-06	0.025	2021/11/05	84	Inkster-Faraday	McKenzie Tot Lot	C	-	5532695.4	633522.6	C187477	AKN357
IF-ML-07	0.025	2021/11/05	91	Inkster-Faraday	McKenzie Tot Lot	C	-	5532690.2	633502.4	C187477	AKN358
IF-ML-08	0.025	2021/11/05	20	Inkster-Faraday	McKenzie Tot Lot	C	-	5532676.2	633533.2	C187477	AKN359
IF-PL-01	0.025	2021/11/05	30	Inkster-Faraday	Parr Tot Lot	C	-	5532744.3	633381.8	C187477	AKN343
IF-PL-02	0.025	2021/11/05	50	Inkster-Faraday	Parr Tot Lot	C	-	5532751.4	633390.6	C187477	AKN344
IF-PL-03	0.025	2021/11/05	23	Inkster-Faraday	Parr Tot Lot	C	-	5532764.1	633386.2	C187477	AKN345
IF-PL-04	0.025	2021/11/05	89	Inkster-Faraday	Parr Tot Lot	C	-	5532759.3	633355.6	C187477	AKN346
IF-PL-05	0.025	2021/11/05	19	Inkster-Faraday	Parr Tot Lot	C	-	5532776.9	633362.6	C187477	AKN347
IF-PL-06	0.025	2021/11/05	16	Inkster-Faraday	Parr Tot Lot	C	-	5532775	633345.3	C187477	AKN348
IF-PL-07	0.025	2021/11/05	55	Inkster-Faraday	Parr Tot Lot	C	-	5532773.3	633328.7	C187477	AKN349
IF-PL-08	0.025	2021/11/05	42	Inkster-Faraday	Parr Tot Lot	C	-	5532790.3	633331.7	C187477	AKN350
LR-AR-01	0.025	2021/10/19	65	Lord Roberts	Argue & Rosedale Athletic Field	C	-	5524050.1	633035.4	C181974	AJC191
LR-AR-02	0.025	2021/10/19	27	Lord Roberts	Argue & Rosedale Athletic Field	C	-	5524086.3	632984.2	C181974	AJC192
LR-AR-03	0.025	2021/10/19	240	Lord Roberts	Argue & Rosedale Athletic Field	C	-	5524111.2	633039.1	C181974	AJC193
LR-AR-03D (dup)	0.025	2021/10/19	190	Lord Roberts	Argue & Rosedale Athletic Field	C	-	5524111.2	633039.1	C181974	AJC194
LR-AR-04	0.025	2021/10/19	6.3	Lord Roberts	Argue & Rosedale Athletic Field	C	-	5524141.5	632964	C181974	AJC195
LR-AR-05	0.025	2021/10/19	53	Lord Roberts	Argue & Rosedale Athletic Field	C	-	5524173.4	633078.8	C181974	AJC196
LR-BA-01	0.025	2021/10/19	130	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525565.3	633819.2	C181113	AW302
LR-BA-02	0.025	2021/10/19	47	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525564.8	633803.6	C181113	AW303
LR-BA-02D (dup)	0.025	2021/10/19	47	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525564.8	633803.6	C181113	AW304
LR-BA-03	0.025	2021/10/19	46	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525572.2	633799	C181113	AW305
LR-BA-04	0.025	2021/10/19	16	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525580.4	633794.1	C181113	AW306
LR-BA-05	0.025	2021/10/19	25	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525586.9	633802.9	C181113	AW307
LR-BA-06	0.025	2021/10/19	22	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525590.3	633809.3	C181113	AW308
LR-BA-07	0.025	2021/10/19	24	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525576.7	633797.3	C181113	AW309
LR-BA-08	0.025	2021/10/19	43	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525568.2	633801.5	C181113	AW310
LR-BA-09	0.025	2021/10/19	120	Lord Roberts	Brandon Avenue Tot Lot	C	-	5525558.8	633806.5	C181113	AW311
LR-FR-01	0.025	2021/10/20	21	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525090.9	633876.9	C181974	AJC209
LR-FR-02	0.025	2021/10/20	33	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525040.9	633903.1	C181974	AJC210
LR-FR-03	0.025	2021/10/20	7.5	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525086.6	633929.6	C181974	AJC211
LR-FR-04	0.025	2021/10/20	11	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525082.4	633979.9	C181974	AJC212
LR-FR-05	0.025	2021/10/20	25	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525129.8	633956.5	C181974	AJC213
LR-FR-06	0.025	2021/10/20	10	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525179.1	634063.9	C181974	AJC214
LR-FR-07	0.025	2021/10/20	9.2	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525172	634085.5	C181974	AJC215
LR-FR-08	0.025	2021/10/20	28	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525189	634094.3	C181974	AJC216
LR-FR-09	0.025	2021/10/20	58	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525184	634115.6	C181974	AJC217
LR-FR-10	0.025	2021/10/20	54	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525212.7	634098.7	C181974	AJC218
LR-FR-11	0.025	2021/10/20	9.3	Lord Roberts	Fort Rouge Leisure Centre	C	-	5525198.5	634077.7	C181974	AJC219
LR-LC-01	0.025	2021/10/19	13	Lord Roberts	Lord Roberts C.C.	C	-	5524613.6	633289.3	C181113	AW312
LR-LC-02	0.025	2021/10/19	7.7	Lord Roberts	Lord Roberts C.C.	C	-	5524647.9	633347.2	C181113	AW313
LR-LC-02D (dup)	0.025	2021/10/19	5.1	Lord Roberts	Lord Roberts C.C.	C	-	5524647.9	633347.2	C181113	AW314

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mbgs - metres below ground surface

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
LR-LC-03	0.025	2021/10/19	6.8	Lord Roberts	Lord Roberts C.C	C	-	5524658.4	633289.6	C181113	AW315
LR-LC-04	0.025	2021/10/19	11	Lord Roberts	Lord Roberts C.C	C	-	5524689.3	633309.3	C181113	AW316
LR-LC-05	0.025	2021/10/19	6.6	Lord Roberts	Lord Roberts C.C	C	-	5524692.3	633352	C181113	AW317
LR-LC-06	0.025	2021/10/19	57	Lord Roberts	Lord Roberts C.C	C	-	5524762.2	633492.4	C181113	AW318
LR-LC-07	0.025	2021/10/19	45	Lord Roberts	Lord Roberts C.C	C	-	5524771	633510	C181113	AW319
LR-LC-08	0.025	2021/10/19	42	Lord Roberts	Lord Roberts C.C	C	-	5524781.8	633505.9	C181113	AW320
LR-LC-09	0.025	2021/10/19	16	Lord Roberts	Lord Roberts C.C	C	-	5524792	633496.1	C181113	AW321
LR-LC-10	0.025	2021/10/19	49	Lord Roberts	Lord Roberts C.C	C	-	5524776.7	633486.6	C181113	AW322
LR-LC-11	0.025	2021/10/19	26	Lord Roberts	Lord Roberts C.C	C	-	5524786.9	633482.9	C181113	AW323
LR-LC-12	0.025	2021/10/19	8.5	Lord Roberts	Lord Roberts C.C	C	-	5524641.5	633312.3	C181113	AW324
LR-LS-01	0.025	2021/10/20	12	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524614.1	633722.1	C181974	AJC197
LR-LS-02	0.025	2021/10/20	18	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524627.9	633698.5	C181974	AJC198
LR-LS-03	0.025	2021/10/20	29	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524644.6	633706.1	C181974	AJC199
LR-LS-04	0.025	2021/10/20	23	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524660.6	633705.5	C181974	AJC200
LR-LS-05	0.025	2021/10/20	7.3	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524676.6	633737.8	C181974	AJC201
LR-LS-06	0.025	2021/10/20	15	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524650.3	633737.5	C181974	AJC202
LR-LS-07	0.025	2021/10/20	21	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524628.3	633752	C181974	AJC203
LR-LS-08	0.025	2021/10/20	32	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524640.7	633790.7	C181974	AJC204
LR-LS-09	0.025	2021/10/20	12	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524664.8	633765.3	C181974	AJC205
LR-LS-10	0.025	2021/10/20	42	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524670	633791	C181974	AJC206
LR-LS-10D (dup)	0.025	2021/10/20	41	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524670	633791	C181974	AJC207
LR-LS-11	0.025	2021/10/20	9.1	Lord Roberts	Lord Roberts school (N-6)	S	WSD	5524693.8	633771.3	C181974	AJC208
LR-MP-01	0.025	2021/10/19	21	Lord Roberts	McKittrick Park	C	-	5524378.8	633217.1	C181974	AJC176
LR-MP-02	0.025	2021/10/19	62	Lord Roberts	McKittrick Park	C	-	5524347.8	633265.7	C181974	AJC177
LR-MP-03	0.025	2021/10/19	26	Lord Roberts	McKittrick Park	C	-	5524384.6	633308.2	C181974	AJC178
LR-MP-04	0.025	2021/10/19	48	Lord Roberts	McKittrick Park	C	-	5524398	633335	C181974	AJC179
LR-MP-05	0.025	2021/10/19	42	Lord Roberts	McKittrick Park	C	-	5524394.5	633275.7	C181974	AJC180
LR-MP-06	0.025	2021/10/19	17	Lord Roberts	McKittrick Park	C	-	5524418.6	633279.9	C181974	AJC181
LR-MP-07	0.025	2021/10/19	16	Lord Roberts	McKittrick Park	C	-	5524443.1	633295.2	C181974	AJC182
LR-MP-08	0.025	2021/10/19	14	Lord Roberts	McKittrick Park	C	-	5524450.4	633320.5	C181974	AJC183
LR-MP-09	0.025	2021/10/19	43	Lord Roberts	McKittrick Park	C	-	5524447.7	633367.1	C181974	AJC184
LR-MP-10	0.025	2021/10/19	25	Lord Roberts	McKittrick Park	C	-	5524481.4	633419.2	C181974	AJC185
LR-MP-11	0.025	2021/10/19	38	Lord Roberts	McKittrick Park	C	-	5524502.8	633470.1	C181974	AJC186
LR-MP-12	0.025	2021/10/19	22	Lord Roberts	McKittrick Park	C	-	5524362.2	633255	C181974	AJC187
LR-MP-13	0.025	2021/10/19	24	Lord Roberts	McKittrick Park	C	-	5524385.8	633250.2	C181974	AJC188
LR-MP-14	0.025	2021/10/19	20	Lord Roberts	McKittrick Park	C	-	5524406.4	633225.2	C181974	AJC189
LR-MP-15	0.025	2021/10/19	23	Lord Roberts	McKittrick Park	C	-	5524345.8	633232.3	C181974	AJC190
LR-NS-01	0.025	2021/10/19	28	Lord Roberts	Nassau Square Park	C	-	5525012.2	633758	C181113	AW274
LR-NS-02	0.025	2021/10/19	120	Lord Roberts	Nassau Square Park	C	-	5525024.8	633773	C181113	AW275
LR-NS-02D (dup)	0.025	2021/10/19	120	Lord Roberts	Nassau Square Park	C	-	5525024.8	633773	C181113	AW276
LR-NS-03	0.025	2021/10/19	0.5	Lord Roberts	Nassau Square Park	C	-	5525027	633759.4	C181113	AW277
LR-NS-03 (re-run)	0.025	2021/10/19	36	Lord Roberts	Nassau Square Park	C	-	5525027	633759.4	C181113	AW277
LR-NS-04	0.025	2021/10/19	47	Lord Roberts	Nassau Square Park	C	-	5525025.5	633748.5	C181113	AW278
LR-NS-05	0.025	2021/10/19	59	Lord Roberts	Nassau Square Park	C	-	5525038.7	633741.9	C181113	AW279
LR-NS-06	0.025	2021/10/19	20	Lord Roberts	Nassau Square Park	C	-	5525037.4	633753.7	C181113	AW280
LR-NS-07	0.025	2021/10/19	42	Lord Roberts	Nassau Square Park	C	-	5525050.5	633762.6	C181113	AW281
LR-NS-08	0.025	2021/10/19	28	Lord Roberts	Nassau Square Park	C	-	5525055.2	633775.1	C181113	AW282
LR-NS-09	0.025	2021/10/19	180	Lord Roberts	Nassau Square Park	C	-	5525040.5	633777.7	C181113	AW283
LR-NS-10	0.025	2021/10/19	130	Lord Roberts	Nassau Square Park	C	-	5525049.3	633779.9	C181113	AW284
LR-NS-11	0.025	2021/10/19	67	Lord Roberts	Nassau Square Park	C	-	5525033.9	633782.7	C181113	AW285
LR-NS-12	0.025	2021/10/19	100	Lord Roberts	Nassau Square Park	C	-	5525046.2	633753.9	C181113	AW286
LR-NS-13	0.025	2021/10/19	120	Lord Roberts	Nassau Square Park	C	-	5525019	633767.3	C181113	AW287

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CRITERIA^a			140								
CRITERIA^b			100-210								
LR-WJ-01	0.025	2021/10/19	23	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525174.7	633461.2	C181113	AW288
LR-WJ-02	0.025	2021/10/19	43	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525187.4	633467.6	C181113	AW289
LR-WJ-03	0.025	2021/10/19	38	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525191.9	633489.7	C181113	AW290
LR-WJ-04	0.025	2021/10/19	43	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525203.2	633486.2	C181113	AW291
LR-WJ-05	0.025	2021/10/19	22	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525202.9	633470.4	C181113	AW292
LR-WJ-06	0.025	2021/10/19	7.9	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525218	633472.5	C181113	AW293
LR-WJ-07	0.025	2021/10/19	7.2	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525218.9	633483.7	C181113	AW294
LR-WJ-08	0.025	2021/10/19	74	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525211.1	633501.7	C181113	AW295
LR-WJ-09	0.025	2021/10/19	99	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525226.5	633493.8	C181113	AW296
LR-WJ-10	0.025	2021/10/19	110	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525246.3	633487.4	C181113	AW297
LR-WJ-11	0.025	2021/10/19	120	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525241.2	633478	C181113	AW298
LR-WJ-12	0.025	2021/10/19	29	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525209.8	633461.8	C181113	AW299
LR-WJ-13	0.025	2021/10/19	33	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525186.2	633453.4	C181113	AW300
LR-WJ-13D (dup)	0.025	2021/10/19	36	Lord Roberts	Will and Jeanine Richard Memorial Park	C	-	5525186.2	633453.4	C181113	AW301
LS-DS-01	0.025	2021/11/02	110	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530334.1	633881.4	C185629	AJZ142
LS-DS-02	0.025	2021/11/02	53	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530351	633881.2	C185629	AJZ143
LS-DS-03	0.025	2021/11/02	23	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530358.5	633857.9	C185629	AJZ144
LS-DS-04	0.025	2021/11/02	68	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530367.5	633871.3	C185629	AJZ145
LS-DS-05	0.025	2021/11/02	330	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530371.4	633884.5	C185629	AJZ146
LS-DS-06	0.025	2021/11/02	22	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530383.3	633872.4	C185629	AJZ147
LS-DS-07	0.025	2021/11/02	85	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530418	633894.4	C185629	AJZ148
LS-DS-08	0.025	2021/11/02	120	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530447.9	633901.7	C185629	AJZ149
LS-DS-09	0.025	2021/11/02	63	Lord Selkirk Park	David Livingstone school (N-8)	S	WSD	5530458.7	633879.2	C185629	AJZ150
LS-DL-01	0.025	2021/11/02	35	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530246.4	633635.7	C185629	AJZ114
LS-DL-02	0.025	2021/11/02	150	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530250.8	633626.3	C185629	AJZ115
LS-DL-03	0.025	2021/11/02	24	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530255.4	633617.3	C185629	AJZ116
LS-DL-03D (dup)	0.025	2021/11/02	42	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530255.4	633617.3	C185629	AJZ117
LS-DL-04	0.025	2021/11/02	130	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530269.6	633621.9	C185629	AJZ118
LS-DL-05	0.025	2021/11/02	41	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530263.7	633631.6	C185629	AJZ119
LS-DL-06	0.025	2021/11/02	51	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530257.3	633641	C185629	AJZ120
LS-DL-07	0.025	2021/11/02	64	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530271.8	633645.7	C185629	AJZ121
LS-DL-08	0.025	2021/11/02	110	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530276.2	633634.5	C185629	AJZ122
LS-DL-09	0.025	2021/11/02	57	Lord Selkirk Park	Dufferin Tot Lot-Kinsman	C	-	5530287.1	633628	C185629	AJZ123
LS-NW-01	0.025	2021/11/02	50	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530427.3	633446.8	C185629	AJZ101
LS-NW-02	0.025	2021/11/02	41	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530434.2	633453.8	C185629	AJZ102
LS-NW-03	0.025	2021/11/02	34	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530449.3	633457.3	C185629	AJZ103
LS-NW-04	0.025	2021/11/02	34	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530460	633453.4	C185629	AJZ104
LS-NW-05	0.025	2021/11/02	50	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530459.4	633462.7	C185629	AJZ105
LS-NW-05D (dup)	0.025	2021/11/02	52	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530459.4	633462.7	C185629	AJZ106
LS-NW-06	0.025	2021/11/02	15	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530431.8	633433.3	C185629	AJZ107
LS-NW-07	0.025	2021/11/02	24	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530440.3	633421.2	C185629	AJZ108
LS-NW-08	0.025	2021/11/02	150	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530451.3	633401.8	C185629	AJZ109
LS-NW-09	0.025	2021/11/02	49	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530458.2	633387.7	C185629	AJZ110
LS-NW-10	0.025	2021/11/02	63	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530478.4	633396.2	C185629	AJZ111
LS-NW-11	0.025	2021/11/02	41	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530486.4	633404.8	C185629	AJZ112
LS-NW-12	0.025	2021/11/02	51	Lord Selkirk Park	North Winnipeg Action Centre	C	-	5530491	633396.2	C185629	AJZ113
LS-RP-01	0.025	2021/11/02	45	Lord Selkirk Park	Robinson Park	C	-	5530403.4	633644.6	C185629	AJZ124
LS-RP-02	0.025	2021/11/02	75	Lord Selkirk Park	Robinson Park	C	-	5530413.4	633618.4	C185629	AJZ125
LS-RP-03	0.025	2021/11/02	45	Lord Selkirk Park	Robinson Park	C	-	5530414.9	633636	C185629	AJZ126
LS-RP-04	0.025	2021/11/02	58	Lord Selkirk Park	Robinson Park	C	-	5530416.5	633650.3	C185629	AJZ127

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

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mbgs - metres below ground surface

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA ^a			140								
CRITERIA ^b			100-210								
LS-RP-05	0.025	2021/11/02	48	Lord Selkirk Park	Robinson Park	C	-	5530427.4	633625.9	C185629	AJZ128
LS-RP-06	0.025	2021/11/02	45	Lord Selkirk Park	Robinson Park	C	-	5530433.3	633645.3	C185629	AJZ129
LS-RP-07	0.025	2021/11/02	44	Lord Selkirk Park	Robinson Park	C	-	5530435.7	633663.2	C185629	AJZ130
LS-RP-08	0.025	2021/11/02	100	Lord Selkirk Park	Robinson Park	C	-	5530446.3	633635	C185629	AJZ131
LS-TI-01	0.025	2021/11/02	29	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530387.8	633736.8	C185629	AJZ132
LS-TI-02	0.025	2021/11/02	53	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530395.4	633797.2	C185629	AJZ133
LS-TI-03	0.025	2021/11/02	28	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530420.6	633728.2	C185629	AJZ134
LS-TI-04	0.025	2021/11/02	27	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530423.5	633771.3	C185629	AJZ135
LS-TI-05	0.025	2021/11/02	71	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530426	633815.2	C185629	AJZ136
LS-TI-06	0.025	2021/11/02	42	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530453.5	633827.9	C185629	AJZ137
LS-TI-07	0.025	2021/11/02	100	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530480.4	633829.5	C185629	AJZ138
LS-TI-08	0.025	2021/11/02	18	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530498.1	633779.8	C185629	AJZ139
LS-TI-09	0.025	2021/11/02	16	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530466.8	633787.1	C185629	AJZ140
LS-TI-10	0.025	2021/11/02	27	Lord Selkirk Park	Turtle Island Community Centre	C	-	5530461.5	633753.3	C185629	AJZ141
LX-SP-01	0.025	2021/10/25	47	Luxton	Dr. Louis Slotin Park	C	-	5531778.9	635422.5	C182766	AJG634
LX-SP-02	0.025	2021/10/25	23	Luxton	Dr. Louis Slotin Park	C	-	5531779.2	635429.2	C182766	AJG635
LX-SP-03	0.025	2021/10/25	190	Luxton	Dr. Louis Slotin Park	C	-	5531784.2	635425.1	C182766	AJG636
LX-LC-01	0.025	2021/10/25	15	Luxton	Luxton C.C	C	-	5531936.7	635084	C182766	AJG637
LX-LC-02	0.025	2021/10/25	15	Luxton	Luxton C.C	C	-	5531949.6	635051	C182766	AJG638
LX-LC-03	0.025	2021/10/25	12	Luxton	Luxton C.C	C	-	5531957.8	635077	C182766	AJG639
LX-LC-04	0.025	2021/10/25	36	Luxton	Luxton C.C	C	-	5531969.5	635096.9	C182766	AJG640
LX-LC-05	0.025	2021/10/25	2000	Luxton	Luxton C.C	C	-	5531979.5	635067.4	C182766	AJG641
LX-LC-05 (re-run)	0.025	2021/10/25	120	Luxton	Luxton C.C	C	-	5531979.5	635067.4	C182766	AJG641
LX-LC-06	0.025	2021/10/25	13	Luxton	Luxton C.C	C	-	5532018.7	635051.9	C182766	AJG642
LX-LC-07	0.025	2021/10/25	27	Luxton	Luxton C.C	C	-	5532031.9	635060.2	C182766	AJG643
LX-LC-08	0.025	2021/10/25	55	Luxton	Luxton C.C	C	-	5532008	635121.7	C182766	AJG644
LX-LS-01	0.025	2021/10/25	15	Luxton	Luxton school (N-6)	S	WSD	5531886.4	635060.1	C182766	AJG645
LX-LS-02	0.025	2021/10/25	15	Luxton	Luxton school (N-6)	S	WSD	5531907	635071.1	C182766	AJG646
LX-LS-02D (dup)	0.025	2021/10/25	16	Luxton	Luxton school (N-6)	S	WSD	5531907	635071.1	C182766	AJG647
LX-LS-03	0.025	2021/10/25	14	Luxton	Luxton school (N-6)	S	WSD	5531924.4	635079.8	C182766	AJG648
LX-LS-04	0.025	2021/10/25	10	Luxton	Luxton school (N-6)	S	WSD	5531929.6	635059.5	C182766	AJG649
LX-LS-05	0.025	2021/10/25	9.9	Luxton	Luxton school (N-6)	S	WSD	5531940.8	635040.6	C182766	AJG650
LX-LS-06	0.025	2021/10/25	15	Luxton	Luxton school (N-6)	S	WSD	5531920.7	635030.4	C182766	AJG651
LX-LS-07	0.025	2021/10/25	15	Luxton	Luxton school (N-6)	S	WSD	5531911.9	635051.6	C182766	AJG652
LX-LS-08	0.025	2021/10/25	15	Luxton	Luxton school (N-6)	S	WSD	5531893.1	635042.2	C182766	AJG653
LX-LS-09	0.025	2021/10/25	16	Luxton	Luxton school (N-6)	S	WSD	5531900.3	635020.3	C182766	AJG654
LX-LS-10	0.025	2021/10/25	52	Luxton	Luxton school (N-6)	S	WSD	5531918.2	634982.7	C182766	AJG655
MT-IB-01	0.025	2021/11/22	64	Minto	Isaac Brock school (N-9)	S	WSD	5527487.2	630263.3	C193697	ALW002
MT-IB-02	0.025	2021/11/22	74	Minto	Isaac Brock school (N-9)	S	WSD	5527487.5	630217.3	C193697	ALW003
MT-IB-03	0.025	2021/11/22	21	Minto	Isaac Brock school (N-9)	S	WSD	5527580.3	630205	C193697	ALW004
MT-IB-04	0.025	2021/11/22	150	Minto	Isaac Brock school (N-9)	S	WSD	5527570.7	630279.9	C193697	ALW005
MT-IB-05	0.025	2021/11/22	120	Minto	Isaac Brock school (N-9)	S	WSD	5527604.8	630246.1	C193697	ALW006
MT-IB-06	0.025	2021/11/22	37	Minto	Isaac Brock school (N-9)	S	WSD	5527624.4	630196.4	C193697	ALW007
MT-IB-07	0.025	2021/11/22	150	Minto	Isaac Brock school (N-9)	S	WSD	5527630.3	630284.5	C193697	ALW008
MT-IB-08	0.025	2021/11/22	70	Minto	Isaac Brock school (N-9)	S	WSD	5527652.5	630237.2	C193697	ALW009
MT-IB-09	0.025	2021/11/22	20	Minto	Isaac Brock school (N-9)	S	WSD	5527692.3	630260.3	C193697	ALW010
MT-IB-10	0.025	2021/11/22	110	Minto	Isaac Brock school (N-9)	S	WSD	5527693.9	630206.3	C193697	ALW011
MT-AG-01	0.025	2021/11/22	22	Minto	Minto Athletic Grounds	C	-	5527750.1	630737.3	C193697	ALV990
MT-AG-02	0.025	2021/11/22	52	Minto	Minto Athletic Grounds	C	-	5527766.9	630740.4	C193697	ALV991

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID	
			140					Northing (m)	Easting (m)			
CRITERIA ^a			100-210									
CRITERIA ^b												
MT-AG-02D	(dup)	0.025	2021/11/22	63	Minto	Minto Athletic Grounds	C	-	5527766.9	630740.4	C193697	ALV992
MT-AG-03		0.025	2021/11/22	67	Minto	Minto Athletic Grounds	C	-	5527763.8	630756.3	C193697	ALV993
MT-AG-04		0.025	2021/11/22	28	Minto	Minto Athletic Grounds	C	-	5527751.3	630765.1	C193697	ALV994
MT-AG-05		0.025	2021/11/22	49	Minto	Minto Athletic Grounds	C	-	5527782.5	630799.7	C193697	ALV995
MT-AG-06		0.025	2021/11/22	55	Minto	Minto Athletic Grounds	C	-	5527779.7	630749.5	C193697	ALV996
MT-AG-07		0.025	2021/11/22	18	Minto	Minto Athletic Grounds	C	-	5527814.3	630766.9	C193697	ALV997
MT-AG-08		0.025	2021/11/22	68	Minto	Minto Athletic Grounds	C	-	5527838	630820.9	C193697	ALV998
MT-AG-09		0.025	2021/11/22	36	Minto	Minto Athletic Grounds	C	-	5527861.1	630766.9	C193697	ALV999
MT-AG-10		0.025	2021/11/22	65	Minto	Minto Athletic Grounds	C	-	5527892	630817.2	C193697	ALW000
MT-AG-11		0.025	2021/11/22	60	Minto	Minto Athletic Grounds	C	-	5527922.6	630788.2	C193697	ALW001
MT-ML-01		0.025	2021/11/22	59	Minto	Minto Tot Lot	C	-	5527547.9	630732.8	C193748	ALW500
MT-ML-02		0.025	2021/11/22	37	Minto	Minto Tot Lot	C	-	5527549.1	630740.2	C193748	ALW501
MT-ML-03		0.025	2021/11/22	56	Minto	Minto Tot Lot	C	-	5527557.9	630732.8	C193748	ALW502
MT-ML-04		0.025	2021/11/22	22	Minto	Minto Tot Lot	C	-	5527566.1	630741.6	C193748	ALW503
MT-ML-05		0.025	2021/11/22	18	Minto	Minto Tot Lot	C	-	5527580.9	630741.7	C193748	ALW504
MT-ML-06		0.025	2021/11/22	29	Minto	Minto Tot Lot	C	-	5527588.6	630732	C193748	ALW505
MT-ML-07		0.025	2021/11/22	28	Minto	Minto Tot Lot	C	-	5527592.1	630741.3	C193748	ALW506
MT-ML-08		0.025	2021/11/22	67	Minto	Minto Tot Lot	C	-	5527598.8	630742.1	C193748	ALW507
MT-ML-09		0.025	2021/11/22	20	Minto	Minto Tot Lot	C	-	5527598.4	630733.8	C193748	ALW508
MT-SL-01		0.025	2021/11/22	46	Minto	Sherburn Tot Lot	C	-	5527583.9	631020.8	C193748	ALW491
MT-SL-02		0.025	2021/11/22	140	Minto	Sherburn Tot Lot	C	-	5527585	631008.6	C193748	ALW492
MT-SL-02D	(dup)	0.025	2021/11/22	130	Minto	Sherburn Tot Lot	C	-	5527585	631008.6	C193748	ALW493
MT-SL-03		0.025	2021/11/22	210	Minto	Sherburn Tot Lot	C	-	5527585.8	630997.2	C193748	ALW494
MT-SL-04		0.025	2021/11/22	17	Minto	Sherburn Tot Lot	C	-	5527594.2	631003.4	C193748	ALW495
MT-SL-05		0.025	2021/11/22	60	Minto	Sherburn Tot Lot	C	-	5527594.5	631017.5	C193748	ALW496
MT-SL-06		0.025	2021/11/22	84	Minto	Sherburn Tot Lot	C	-	5527602.8	631022.5	C193748	ALW497
MT-SL-07		0.025	2021/11/22	160	Minto	Sherburn Tot Lot	C	-	5527602.9	631010.4	C193748	ALW498
MT-SL-08		0.025	2021/11/22	140	Minto	Sherburn Tot Lot	C	-	5527603.4	630998.6	C193748	ALW499
MT-VC-01		0.025	2021/11/19	70	Minto	Valour C.C-Isaac Brock Site	C	-	5527766.3	630263.9	C193748	ALW481
MT-VC-02		0.025	2021/11/19	91	Minto	Valour C.C-Isaac Brock Site	C	-	5527786	630263	C193748	ALW482
MT-VC-03		0.025	2021/11/19	44	Minto	Valour C.C-Isaac Brock Site	C	-	5527843.7	630262.6	C193748	ALW483
MT-VC-04		0.025	2021/11/19	23	Minto	Valour C.C-Isaac Brock Site	C	-	5527843.7	630238.8	C193748	ALW484
MT-VC-05		0.025	2021/11/19	25	Minto	Valour C.C-Isaac Brock Site	C	-	5527875.5	630251.3	C193748	ALW485
MT-VC-06		0.025	2021/11/19	64	Minto	Valour C.C-Isaac Brock Site	C	-	5527912.8	630265.1	C193748	ALW486
MT-VC-07		0.025	2021/11/19	22	Minto	Valour C.C-Isaac Brock Site	C	-	5527913.2	630240.4	C193748	ALW487
MT-VC-08		0.025	2021/11/19	29	Minto	Valour C.C-Isaac Brock Site	C	-	5527944.2	630253	C193748	ALW488
MT-VC-09		0.025	2021/11/19	75	Minto	Valour C.C-Isaac Brock Site	C	-	5527982.7	630265.1	C193748	ALW489
MT-VC-10		0.025	2021/11/19	85	Minto	Valour C.C-Isaac Brock Site	C	-	5527982.3	630244.2	C193748	ALW490
MI-KP-01		0.025	2021/10/25	18	Mission Industrial	Kavanagh Park	C	-	5527654.5	636135.6	C182766	AJG625
MI-KP-01D	(dup)	0.025	2021/10/25	21	Mission Industrial	Kavanagh Park	C	-	5527654.5	636135.6	C182766	AJG626
MI-KP-02		0.025	2021/10/25	42	Mission Industrial	Kavanagh Park	C	-	5527656.8	636180.3	C182766	AJG627
MI-KP-03		0.025	2021/10/25	27	Mission Industrial	Kavanagh Park	C	-	5527657.4	636207.3	C182766	AJG628
MI-KP-04		0.025	2021/10/25	48	Mission Industrial	Kavanagh Park	C	-	5527658	636231.4	C182766	AJG629
MI-KP-05		0.025	2021/10/25	26	Mission Industrial	Kavanagh Park	C	-	5527665.1	636283.2	C182766	AJG630
MI-KP-06		0.025	2021/10/25	26	Mission Industrial	Kavanagh Park	C	-	5527684.5	636200.3	C182766	AJG631
MI-KP-07		0.025	2021/10/25	33	Mission Industrial	Kavanagh Park	C	-	5527692.7	636173.8	C182766	AJG632
MI-KP-08		0.025	2021/10/25	23	Mission Industrial	Kavanagh Park	C	-	5527722.1	636186.7	C182766	AJG633
MI-MP-01		0.025	2021/10/25	79	Mission Industrial	Mission Park	C	-	5528948.5	636368.1	C182766	AJG608
MI-MP-02		0.025	2021/10/25	37	Mission Industrial	Mission Park	C	-	5528958.2	636353	C182766	AJG609
MI-MP-03		0.025	2021/10/25	52	Mission Industrial	Mission Park	C	-	5528975	636342.3	C182766	AJG610

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
			140								
CRITERIA ^a			100-210								
CRITERIA ^b											
MI-MP-04	0.025	2021/10/25	65	Mission Industrial	Mission Park	C	-	5529027.4	636329.5	C182766	AJG611
MI-MP-05	0.025	2021/10/25	24	Mission Industrial	Mission Park	C	-	5528994	636358.7	C182766	AJG612
MI-MP-06	0.025	2021/10/25	40	Mission Industrial	Mission Park	C	-	5528974.8	636370	C182766	AJG613
MI-MP-07	0.025	2021/10/25	54	Mission Industrial	Mission Park	C	-	5528960.8	636389.2	C182766	AJG614
MI-MP-08	0.025	2021/10/25	38	Mission Industrial	Mission Park	C	-	5528966.5	636418.8	C182766	AJG615
MI-MP-09	0.025	2021/10/25	430	Mission Industrial	Mission Park	C	-	5528970.1	636433	C182766	AJG616
MI-MP-10	0.025	2021/10/25	270	Mission Industrial	Mission Park	C	-	5528982.4	636427.6	C182766	AJG617
MI-MP-11	0.025	2021/10/25	57	Mission Industrial	Mission Park	C	-	5528979.5	636413.6	C182766	AJG618
MI-MP-12	0.025	2021/10/25	40	Mission Industrial	Mission Park	C	-	5529009.6	636392.3	C182766	AJG619
MI-MP-13	0.025	2021/10/25	140	Mission Industrial	Mission Park	C	-	5528999.2	636416	C182766	AJG620
MI-MP-13D (dup)	0.025	2021/10/25	120	Mission Industrial	Mission Park	C	-	5528999.2	636416	C182766	AJG621
MI-MP-14	0.025	2021/10/25	46000	Mission Industrial	Mission Park	C	-	5528995.6	636468.8	C182766	AJG622
MI-MP-14 (re-run)	0.025	2021/10/25	50000	Mission Industrial	Mission Park	C	-	5528995.6	636468.8	C182766	AJG622
MI-MP-14R1	0.025	2021/11/22	62000	Mission Industrial	Mission Park	C	-	5528995.6	636469.8	C193697	ALW016
MI-MP-14R2	0.025	2021/11/22	88000	Mission Industrial	Mission Park	C	-	5528996.7	636468.6	C193697	ALW017
MI-MP-14R3	0.025	2021/11/22	2300	Mission Industrial	Mission Park	C	-	5528995.5	636465.6	C193697	ALW018
MI-MP-14R4	0.025	2021/11/22	950	Mission Industrial	Mission Park	C	-	5528990	636468.5	C193697	ALW019
MI-MP-15	0.025	2021/10/25	36	Mission Industrial	Mission Park	C	-	5528991.2	636390.2	C182766	AJG623
MI-MP-16	0.025	2021/10/25	56	Mission Industrial	Mission Park	C	-	5529003.7	636328.9	C182766	AJG624
MN-AM-01	0.025	2021/11/09	19	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533112	631663	C189363	AKZ855
MN-AM-02	0.025	2021/11/09	40	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533164	631680.4	C189363	AKZ856
MN-AM-02D (dup)	0.025	2021/11/09	54	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533164	631680.4	C189363	AKZ857
MN-AM-03	0.025	2021/11/09	39	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533187	631723.6	C189363	AKZ858
MN-AM-04	0.025	2021/11/09	36	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533222.4	631647.4	C189363	AKZ859
MN-AM-05	0.025	2021/11/09	45	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533258.4	631566.3	C189363	AKZ860
MN-AM-06	0.025	2021/11/09	43	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533203.8	631582.3	C189363	AKZ861
MN-AM-07	0.025	2021/11/09	47	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533175.9	631527.3	C189363	AKZ862
MN-AM-08	0.025	2021/11/09	48	Mynarski	Andrew Mynarski school (7-9)	S	WSD	5533141.7	631607.2	C189363	AKZ863
ND-AA-01	0.025	2021/11/01	18	North Point Douglas	Aberdeen Adventure Playground	C	-	5530874.8	634315.1	C185620	AJY969
ND-AA-02	0.025	2021/11/01	200	North Point Douglas	Aberdeen Adventure Playground	C	-	5530891.8	634325.6	C185620	AJY970
ND-AA-03	0.025	2021/11/01	120	North Point Douglas	Aberdeen Adventure Playground	C	-	5530880.3	634334.2	C185620	AJY971
ND-AA-04	0.025	2021/11/01	210	North Point Douglas	Aberdeen Adventure Playground	C	-	5530871.8	634347.1	C185620	AJY972
ND-AA-05	0.025	2021/11/01	89	North Point Douglas	Aberdeen Adventure Playground	C	-	5530866.1	634371	C185620	AJY973
ND-AA-05D (dup)	0.025	2021/11/01	120	North Point Douglas	Aberdeen Adventure Playground	C	-	5530866.1	634371	C185620	AJY974
ND-AA-06	0.025	2021/11/01	94	North Point Douglas	Aberdeen Adventure Playground	C	-	5530879.8	634359.6	C185620	AJY975
ND-AA-07	0.025	2021/11/01	130	North Point Douglas	Aberdeen Adventure Playground	C	-	5530894.5	634344.1	C185620	AJY976
ND-AA-08	0.025	2021/11/01	190	North Point Douglas	Aberdeen Adventure Playground	C	-	5530888.5	634370.1	C185620	AJY977
ND-AA-09	0.025	2021/11/01	75	North Point Douglas	Aberdeen Adventure Playground	C	-	5530968.2	634371.6	C185620	AJY978
ND-AA-10	0.025	2021/11/01	23	North Point Douglas	Aberdeen Adventure Playground	C	-	5530990.3	634395.2	C185620	AJY979
ND-AA-11	0.025	2021/11/01	72	North Point Douglas	Aberdeen Adventure Playground	C	-	5531004	634375.8	C185620	AJY980
ND-JS-01	0.025	2021/11/01	23	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530042.9	634744.4	C185620	AJY939
ND-JS-01D (dup)	0.025	2021/11/01	24	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530042.9	634744.4	C185620	AJY940
ND-JS-02	0.025	2021/11/01	22	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530038.1	634763.9	C185620	AJY941
ND-JS-03	0.025	2021/11/01	20	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530052.5	634782	C185620	AJY942
ND-JS-04	0.025	2021/11/01	16	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530070.7	634807.3	C185620	AJY943
ND-JS-05	0.025	2021/11/01	22	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530083.8	634815.4	C185620	AJY944
ND-JS-06	0.025	2021/11/01	41	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530098.1	634801.7	C185620	AJY945
ND-JS-07	0.025	2021/11/01	30	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530109.6	634781.5	C185620	AJY946
ND-JS-08	0.025	2021/11/01	14	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530116.5	634760.9	C185620	AJY947
ND-JS-09	0.025	2021/11/01	12	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530105.1	634732.5	C185620	AJY948
ND-JS-10	0.025	2021/11/01	11	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530096.3	634721.1	C185620	AJY949
ND-JS-11	0.025	2021/11/01	13	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530090.7	634740.8	C185620	AJY950

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CRITERIA^a			140								
CRITERIA^b			100-210								
ND-JS-12	0.025	2021/11/01	7.4	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530084.2	634759.6	C185620	AJY951
ND-JS-13	0.025	2021/11/01	14	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530063.7	634749.9	C185620	AJY952
ND-JS-14	0.025	2021/11/01	15	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530077.1	634728.8	C185620	AJY953
ND-JS-15	0.025	2021/11/01	56	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530075.7	634718.2	C185620	AJY954
ND-JS-16	0.025	2021/11/01	16	North Point Douglas	Dr. Jim Shaver Memorial Playground	C	-	5530082.2	634711.2	C185620	AJY955
ND-JZ-01	0.025	2021/11/01	45	North Point Douglas	Joe Zuken Heritage Park	C	-	5529902.7	634307.4	C185620	AJY992
ND-JZ-02	0.025	2021/11/01	33	North Point Douglas	Joe Zuken Heritage Park	C	-	5529915.6	634289.8	C185620	AJY993
ND-JZ-03	0.025	2021/11/01	26	North Point Douglas	Joe Zuken Heritage Park	C	-	5529936.6	634274.2	C185620	AJY994
ND-JZ-04	0.025	2021/11/01	21	North Point Douglas	Joe Zuken Heritage Park	C	-	5529940.6	634241.4	C185620	AJY995
ND-JZ-05	0.025	2021/11/01	28	North Point Douglas	Joe Zuken Heritage Park	C	-	5529948.9	634304.1	C185620	AJY996
ND-JZ-06	0.025	2021/11/01	57	North Point Douglas	Joe Zuken Heritage Park	C	-	5529973.9	634314.6	C185620	AJY997
ND-JZ-07	0.025	2021/11/01	19	North Point Douglas	Joe Zuken Heritage Park	C	-	5529976.6	634284.3	C185620	AJY998
ND-MJ-01	0.025	2021/11/01	11	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530295.5	634559.5	C185620	AJY956
ND-MJ-02	0.025	2021/11/01	19	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530291.9	634533.2	C185620	AJY957
ND-MJ-03	0.025	2021/11/01	14	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530277.3	634517.2	C185620	AJY958
ND-MJ-04	0.025	2021/11/01	16	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530291.6	634499	C185620	AJY959
ND-MJ-05	0.025	2021/11/01	15	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530305.2	634471.2	C185620	AJY960
ND-MJ-06	0.025	2021/11/01	15	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530313.2	634516.2	C185620	AJY961
ND-MJ-07	0.025	2021/11/01	230	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530339.2	634533.4	C185620	AJY962
ND-MJ-08	0.025	2021/11/01	11	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530339.2	634494.6	C185620	AJY963
ND-MJ-09	0.025	2021/11/01	220	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530365.8	634483.3	C185620	AJY964
ND-MJ-10	0.025	2021/11/01	55	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530354.5	634441	C185620	AJY965
ND-MJ-11	0.025	2021/11/01	41	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530383	634414.4	C185620	AJY966
ND-MJ-12	0.025	2021/11/01	910	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530449.3	634383	C185620	AJY967
ND-MJ-13	0.025	2021/11/01	9.8	North Point Douglas	Michaëlle Jean Park / Norquay C.C	C	-	5530536.8	634377.6	C185620	AJY968
ND-NS-01	0.025	2021/11/01	26	North Point Douglas	Norquay school (N-6)	S	WSD	5530127	634259.1	C185620	AJY981
ND-NS-02	0.025	2021/11/01	71	North Point Douglas	Norquay school (N-6)	S	WSD	5530142.7	634266.4	C185620	AJY982
ND-NS-03	0.025	2021/11/01	93	North Point Douglas	Norquay school (N-6)	S	WSD	5530148.4	634286.4	C185620	AJY983
ND-NS-04	0.025	2021/11/01	42	North Point Douglas	Norquay school (N-6)	S	WSD	5530158	634273.4	C185620	AJY984
ND-NS-05	0.025	2021/11/01	17	North Point Douglas	Norquay school (N-6)	S	WSD	5530180.7	634269.5	C185620	AJY985
ND-NS-05D (dup)	0.025	2021/11/01	29	North Point Douglas	Norquay school (N-6)	S	WSD	5530180.7	634269.5	C185620	AJY986
ND-NS-06	0.025	2021/11/01	10	North Point Douglas	Norquay school (N-6)	S	WSD	5530159.2	634253.7	C185620	AJY987
ND-NS-07	0.025	2021/11/01	100	North Point Douglas	Norquay school (N-6)	S	WSD	5530153.5	634230.9	C185620	AJY988
ND-NS-08	0.025	2021/11/01	92	North Point Douglas	Norquay school (N-6)	S	WSD	5530183.3	634199.4	C185620	AJY989
ND-NS-09	0.025	2021/11/01	51	North Point Douglas	Norquay school (N-6)	S	WSD	5530191.9	634205.5	C185620	AJY990
ND-NS-10	0.025	2021/11/01	46	North Point Douglas	Norquay school (N-6)	S	WSD	5530200.7	634215.7	C185620	AJY991
ND-PD-01	0.025	2021/11/01	20	North Point Douglas	Point Douglas Park	C	-	5529613.4	635388.9	C185620	AJZ008
ND-PD-02	0.025	2021/11/01	15	North Point Douglas	Point Douglas Park	C	-	5529613.1	635467.1	C185620	AJZ009
ND-PD-03	0.025	2021/11/01	73	North Point Douglas	Point Douglas Park	C	-	5529644.1	635552.5	C185620	AJZ010
ND-PD-04	0.025	2021/11/01	20	North Point Douglas	Point Douglas Park	C	-	5529696.2	635488.6	C185620	AJZ011
ND-PD-05	0.025	2021/11/01	31	North Point Douglas	Point Douglas Park	C	-	5529705.9	635409.4	C185620	AJZ012
ND-SL-01	0.025	2021/11/01	120	North Point Douglas	Syndicate Tot Lot	C	-	5529837.7	635156.5	C185620	AJY999
ND-SL-02	0.025	2021/11/01	51	North Point Douglas	Syndicate Tot Lot	C	-	5529849.4	635138.8	C185620	AJZ000
ND-SL-03	0.025	2021/11/01	20	North Point Douglas	Syndicate Tot Lot	C	-	5529843.5	635130	C185620	AJZ001
ND-SL-04	0.025	2021/11/01	13	North Point Douglas	Syndicate Tot Lot	C	-	5529852	635122.2	C185620	AJZ002
ND-SL-05	0.025	2021/11/01	23	North Point Douglas	Syndicate Tot Lot	C	-	5529852.4	635106.6	C185620	AJZ003
ND-SL-06	0.025	2021/11/01	12	North Point Douglas	Syndicate Tot Lot	C	-	5529856.9	635114.9	C185620	AJZ004
ND-SL-07	0.025	2021/11/01	15	North Point Douglas	Syndicate Tot Lot	C	-	5529865.7	635117.1	C185620	AJZ005
ND-SL-07D (dup)	0.025	2021/11/01	15	North Point Douglas	Syndicate Tot Lot	C	-	5529865.7	635117.1	C185620	AJZ006
ND-SL-08	0.025	2021/11/01	46	North Point Douglas	Syndicate Tot Lot	C	-	5529870.1	635110.5	C185620	AJZ007

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CRITERIA^a			140								
CRITERIA^b			100-210								
NE-CC-01	0.025	2021/10/26	33	Norwood East	Champlain C.C	C	-	5526467.6	635508.5	C182827	AJG993
NE-CC-02	0.025	2021/10/26	48	Norwood East	Champlain C.C	C	-	5526465.8	635491.4	C182827	AJG994
NE-CC-03	0.025	2021/10/26	13	Norwood East	Champlain C.C	C	-	5526466.6	635474.8	C182827	AJG995
NE-CC-04	0.025	2021/10/26	16	Norwood East	Champlain C.C	C	-	5526466	635461.2	C182827	AJG996
NE-CC-05	0.025	2021/10/26	15	Norwood East	Champlain C.C	C	-	5526478	635456.2	C182827	AJG997
NE-CC-06	0.025	2021/10/26	13	Norwood East	Champlain C.C	C	-	5526491.4	635457.2	C182827	AJG998
NE-CC-07	0.025	2021/10/26	9.9	Norwood East	Champlain C.C	C	-	5526494.6	635472.2	C182827	AJG999
NE-CC-08	0.025	2021/10/26	19	Norwood East	Champlain C.C	C	-	5526499.6	635499.1	C182827	AJH000
NE-CC-09	0.025	2021/10/26	18	Norwood East	Champlain C.C	C	-	5526516.5	635489.3	C182827	AJH001
NE-CC-10	0.025	2021/10/26	12	Norwood East	Champlain C.C	C	-	5526537	635470.6	C182827	AJH002
NE-CC-11	0.025	2021/10/26	11	Norwood East	Champlain C.C	C	-	5526560	635475.1	C182827	AJH003
NE-CC-12	0.025	2021/10/26	11	Norwood East	Champlain C.C	C	-	5526587.7	635492.2	C182827	AJH004
NE-CC-13	0.025	2021/10/26	35	Norwood East	Champlain C.C	C	-	5526592.8	635449	C182827	AJH005
NE-CC-14	0.025	2021/10/26	23	Norwood East	Champlain C.C	C	-	5526551.2	635452.7	C182827	AJH006
NE-CC-15	0.025	2021/10/26	14	Norwood East	Champlain C.C	C	-	5526504.7	635487.7	C182827	AJH007
NE-CC-16	0.025	2021/10/26	12	Norwood East	Champlain C.C	C	-	5526475.1	635527.2	C182827	AJH008
NE-CP-01	0.025	2021/10/26	56	Norwood East	Coronation Park	C	-	5526776.1	634807.5	C182827	AJH009
NE-CP-02	0.025	2021/10/26	16	Norwood East	Coronation Park	C	-	5526820.6	634748.8	C182827	AJH010
NE-CP-03	0.025	2021/10/26	80	Norwood East	Coronation Park	C	-	5526876.4	634779.6	C182827	AJH011
NE-CP-04	0.025	2021/10/26	140	Norwood East	Coronation Park	C	-	5526880.3	634691.6	C182827	AJH012
NE-EP-01	0.025	2021/10/29	54	Norwood East	École Precieux-Sang (K-8)	S	DS	5526686.8	635063.7	C185266	AJX010
NE-EP-01D (dup)	0.025	2021/10/29	55	Norwood East	École Precieux-Sang (K-8)	S	DS	5526686.8	635063.7	C185266	AJX011
NE-EP-02	0.025	2021/10/29	53	Norwood East	École Precieux-Sang (K-8)	S	DS	5526687.5	635050.4	C185266	AJX012
NE-EP-03	0.025	2021/10/29	16	Norwood East	École Precieux-Sang (K-8)	S	DS	5526699.3	635045.4	C185266	AJX013
NE-EP-04	0.025	2021/10/29	15	Norwood East	École Precieux-Sang (K-8)	S	DS	5526704.2	635065.4	C185266	AJX014
NE-EP-05	0.025	2021/10/29	10	Norwood East	École Precieux-Sang (K-8)	S	DS	5526745.8	634950.5	C185266	AJX015
NE-EP-06	0.025	2021/10/29	8	Norwood East	École Precieux-Sang (K-8)	S	DS	5526764.2	634963.9	C185266	AJX016
NE-EP-07	0.025	2021/10/29	7.7	Norwood East	École Precieux-Sang (K-8)	S	DS	5526781.2	634957.7	C185266	AJX017
NE-EP-08	0.025	2021/10/29	8.4	Norwood East	École Precieux-Sang (K-8)	S	DS	5526780.7	634923	C185266	AJX018
NE-EP-09	0.025	2021/10/29	8.8	Norwood East	École Precieux-Sang (K-8)	S	DS	5526769.5	634952.4	C185266	AJX019
NE-EP-10	0.025	2021/10/29	8.9	Norwood East	École Precieux-Sang (K-8)	S	DS	5526752.6	634926	C185266	AJX020
NE-FP-01	0.025	2021/10/27	38	Norwood East	Falcon Park	C	-	5526761.8	636079.3	C184210	AJP169
NE-FP-02	0.025	2021/10/27	34	Norwood East	Falcon Park	C	-	5526768.8	636095.3	C184210	AJP170
NE-FP-03	0.025	2021/10/27	20	Norwood East	Falcon Park	C	-	5526771.5	636116.5	C184210	AJP171
NE-FP-04	0.025	2021/10/27	28	Norwood East	Falcon Park	C	-	5526774.9	636135.4	C184210	AJP172
NE-FP-05	0.025	2021/10/27	21	Norwood East	Falcon Park	C	-	5526789.1	636113.9	C184210	AJP173
NE-FP-06	0.025	2021/10/27	19	Norwood East	Falcon Park	C	-	5526793	636093.5	C184210	AJP174
NE-FP-07	0.025	2021/10/27	15	Norwood East	Falcon Park	C	-	5526788.5	636074.8	C184210	AJP175
NE-FP-08	0.025	2021/10/27	17	Norwood East	Falcon Park	C	-	5526780.7	636084.5	C184210	AJP176
NE-FP-09	0.025	2021/10/27	40	Norwood East	Falcon Park	C	-	5526760.9	636104.9	C184210	AJP177
NE-FP-10	0.025	2021/10/27	44	Norwood East	Falcon Park	C	-	5526763.7	636132	C184210	AJP178
NE-HP-01	0.025	2021/10/27	23	Norwood East	Heather Park	C	-	5526578.8	636155	C184210	AJP164
NE-HP-02	0.025	2021/10/27	48	Norwood East	Heather Park	C	-	5526587.8	636259.4	C184210	AJP165
NE-HP-02D (dup)	0.025	2021/10/27	40	Norwood East	Heather Park	C	-	5526587.8	636259.4	C184210	AJP166
NE-HP-03	0.025	2021/10/27	22	Norwood East	Heather Park	C	-	5526662.1	636250.4	C184210	AJP167
NE-HP-04	0.025	2021/10/27	16	Norwood East	Heather Park	C	-	5526669.7	636300.5	C184210	AJP168
NE-TP-01	0.025	2021/10/26	14	Norwood East	Traverse Park	C	-	5526776.6	635309.7	C182827	AJH013
NE-TP-02	0.025	2021/10/26	12	Norwood East	Traverse Park	C	-	5526790.5	635305.4	C182827	AJH014
NE-TP-03	0.025	2021/10/26	59	Norwood East	Traverse Park	C	-	5526789.6	635323.3	C182827	AJH015

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

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c - WSD: Winnipeg School Division, DS: Division Scolaire Franco-Manitobaine, LR: Louis Riel School Division, SJ: St. James Assiniboia School Division, IS: independent school.

d - GPS coordinates are in NAD 83/Zone 14.

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mbgs - metres below ground surface

(re-run) - Sample re-run by laboratory on original soil

C [in use by S] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsik criterion

BOLD - Exceeds applicable CCME criterion

Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
								Northing (m)	Easting (m)		
CRITERIA^a			140								
CRITERIA^b			100-210								
NE-TP-04	0.025	2021/10/26	16	Norwood East	Traverse Park	C	-	5526804.3	635329.1	C182827	AJH016
NE-TP-05	0.025	2021/10/26	69	Norwood East	Traverse Park	C	-	5526801.8	635344.6	C182827	AJH017
NE-TP-06	0.025	2021/10/26	78	Norwood East	Traverse Park	C	-	5526815.3	635360.9	C182827	AJH018
NE-TP-07	0.025	2021/10/26	850	Norwood East	Traverse Park	C	-	5526816.8	635346.1	C182827	AJH019
NE-TP-07R1	0.025	2021/11/17	160	Norwood East	Traverse Park	C	-	5526818.1	635344.9	C189380	ALA070
NE-TP-07R2	0.025	2021/11/17	82	Norwood East	Traverse Park	C	-	5526813	635348.3	C189380	ALA071
NE-TP-07R3	0.025	2021/11/17	49	Norwood East	Traverse Park	C	-	5526811.7	635341.1	C189380	ALA072
NE-TP-08	0.025	2021/10/26	170	Norwood East	Traverse Park	C	-	5526817.1	635327.9	C182827	AJH020
NE-TP-09	0.025	2021/10/26	20	Norwood East	Traverse Park	C	-	5526816.3	635308.2	C182827	AJH021
RO-FP-01	0.025	2021/10/18	59	River-Osborne	Fort Rouge Park	C	-	5527169.5	633570.1	C181014	AV557
RO-FP-02	0.025	2021/10/18	160	River-Osborne	Fort Rouge Park	C	-	5527155	633585.9	C181014	AV558
RO-FP-03	0.025	2021/10/18	13	River-Osborne	Fort Rouge Park	C	-	5527148.4	633572.1	C181014	AV559
RO-FP-04	0.025	2021/10/18	19	River-Osborne	Fort Rouge Park	C	-	5527153.5	633552.6	C181014	AV560
RO-FP-05	0.025	2021/10/18	22	River-Osborne	Fort Rouge Park	C	-	5527147.5	633530.4	C181014	AV561
RO-FP-06	0.025	2021/10/18	17	River-Osborne	Fort Rouge Park	C	-	5527131.5	633523.2	C181014	AV562
RO-FP-07	0.025	2021/10/18	25	River-Osborne	Fort Rouge Park	C	-	5527124.3	633541.7	C181014	AV563
RO-FP-08	0.025	2021/10/18	12	River-Osborne	Fort Rouge Park	C	-	5527124.6	633566.7	C181014	AV564
RO-FP-09	0.025	2021/10/18	65	River-Osborne	Fort Rouge Park	C	-	5527105.8	633569.6	C181014	AV565
RO-FP-10	0.025	2021/10/18	48	River-Osborne	Fort Rouge Park	C	-	5527102.4	633545.1	C181014	AV566
RO-FP-11	0.025	2021/10/18	12	River-Osborne	Fort Rouge Park	C	-	5527111.1	633518.5	C181014	AV567
RO-FP-12	0.025	2021/10/18	69	River-Osborne	Fort Rouge Park	C	-	5527096.7	633526	C181014	AV568
RO-FP-13	0.025	2021/10/18	47	River-Osborne	Fort Rouge Park	C	-	5527075.4	633523.5	C181014	AV569
RO-FP-14	0.025	2021/10/18	130	River-Osborne	Fort Rouge Park	C	-	5527090.1	633582.4	C181014	AV570
RO-FP-14D (dup)	0.025	2021/10/18	130	River-Osborne	Fort Rouge Park	C	-	5527090.1	633582.4	C181014	AV571
RO-FP-15	0.025	2021/10/18	99	River-Osborne	Fort Rouge Park	C	-	5527108.6	633613.8	C181014	AV572
RO-FS-01	0.025	2021/10/18	11	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527422.9	634050.6	C181014	AV573
RO-FS-02	0.025	2021/10/18	9.4	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527430.5	634066.1	C181014	AV574
RO-FS-03	0.025	2021/10/18	14	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527435.4	634078.6	C181014	AV575
RO-FS-04	0.025	2021/10/18	17	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527422.5	634092.3	C181014	AV576
RO-FS-05	0.025	2021/10/18	15	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527415.7	634076.2	C181014	AV577
RO-FS-06	0.025	2021/10/18	14	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527406.6	634061.3	C181014	AV578
RO-FS-07	0.025	2021/10/18	16	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527393.5	634071.7	C181014	AV579
RO-FS-08	0.025	2021/10/18	13	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527398	634083.6	C181014	AV580
RO-FS-09	0.025	2021/10/18	19	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527404.8	634094	C181014	AV581
RO-FS-10	0.025	2021/10/18	17	River-Osborne	Fort Rouge school (N-6)	S	WSD	5527386.1	634130.9	C181014	AV582
RO-GJ-01	0.025	2021/10/18	36	River-Osborne	Gerald James Lynch Park	C	-	5527085.7	633065.7	C181014	AV590
RO-GJ-02	0.025	2021/10/18	35	River-Osborne	Gerald James Lynch Park	C	-	5527065.6	633085.2	C181014	AV591
RO-GJ-03	0.025	2021/10/18	27	River-Osborne	Gerald James Lynch Park	C	-	5527054.1	633081.9	C181014	AV592
RO-GJ-04	0.025	2021/10/18	21	River-Osborne	Gerald James Lynch Park	C	-	5527055.7	633096.2	C181014	AV593
RO-GJ-05	0.025	2021/10/18	17	River-Osborne	Gerald James Lynch Park	C	-	5527043.7	633104.5	C181014	AV594
RO-GJ-06	0.025	2021/10/18	19	River-Osborne	Gerald James Lynch Park	C	-	5527030.3	633095.6	C181014	AV595
RO-GJ-07	0.025	2021/10/18	12	River-Osborne	Gerald James Lynch Park	C	-	5527068.4	633072.6	C181014	AV596
RO-MP-01	0.025	2021/10/18	150	River-Osborne	Mayfair Park East	C	-	5527381.6	633817	C181014	AV597
RO-MP-02	0.025	2021/10/18	100	River-Osborne	Mayfair Park East	C	-	5527370.6	633863.1	C181014	AV598
RO-MP-03	0.025	2021/10/18	15	River-Osborne	Mayfair Park East	C	-	5527341.4	633879.7	C181014	AV599
RO-MP-04	0.025	2021/10/18	50	River-Osborne	Mayfair Park East	C	-	5527326.5	633890.4	C181014	AV600
RO-MP-05	0.025	2021/10/18	46	River-Osborne	Mayfair Park East	C	-	5527318.2	633894.5	C181014	AV601
RO-MP-06	0.025	2021/10/18	56	River-Osborne	Mayfair Park East	C	-	5527307	633895.5	C181014	AV602
RO-MP-07	0.025	2021/10/18	130	River-Osborne	Mayfair Park East	C	-	5527304.8	633885.3	C181014	AV603
RO-MP-08	0.025	2021/10/18	24	River-Osborne	Mayfair Park East	C	-	5527317.5	633878.9	C181014	AV604
RO-MP-09	0.025	2021/10/18	28	River-Osborne	Mayfair Park East	C	-	5527320.1	633868.2	C181014	AV605

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(dup) - Duplicate

mbgs - metres below ground surface

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C [in use by S] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsik criterion

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
								Northing (m)	Easting (m)		
CRITERIA^a			140								
CRITERIA^b			100-210								
RO-MP-10	0.025	2021/10/18	160	River-Osborne	Mayfair Park East	C	-	5527328.9	633845.5	C181014	AV606
RO-MP-11	0.025	2021/10/18	27	River-Osborne	Mayfair Park East	C	-	5527311.8	633852.8	C181014	AV607
RO-MP-12	0.025	2021/10/18	21	River-Osborne	Mayfair Park East	C	-	5527298.2	633863.8	C181014	AV608
RO-MP-13	0.025	2021/10/18	50	River-Osborne	Mayfair Park East	C	-	5527295.3	633877.5	C181014	AV609
RO-MP-13D (dup)	0.025	2021/10/18	59	River-Osborne	Mayfair Park East	C	-	5527295.3	633877.5	C181014	AV610
RO-MP-14	0.025	2021/10/18	66	River-Osborne	Mayfair Park East	C	-	5527291.8	633855.7	C181014	AV611
RO-MP-15	0.025	2021/10/18	50	River-Osborne	Mayfair Park East	C	-	5527334.3	633869.9	C181014	AV612
RO-MP-16	0.025	2021/10/18	260	River-Osborne	Mayfair Park East	C	-	5527368.7	633844.5	C181014	AV613
RO-SS-01	0.025	2021/10/18	38	River-Osborne	Scott-Stradbrook Park	C	-	5526830.7	633571.8	C181014	AV583
RO-SS-02	0.025	2021/10/18	83	River-Osborne	Scott-Stradbrook Park	C	-	5526830.3	633579.3	C181014	AV584
RO-SS-03	0.025	2021/10/18	43	River-Osborne	Scott-Stradbrook Park	C	-	5526824.2	633571.4	C181014	AV585
RO-SS-04	0.025	2021/10/18	26	River-Osborne	Scott-Stradbrook Park	C	-	5526822.1	633579.4	C181014	AV586
RO-SS-05	0.025	2021/10/18	47	River-Osborne	Scott-Stradbrook Park	C	-	5526817.1	633583.9	C181014	AV587
RO-SS-06	0.025	2021/10/18	30	River-Osborne	Scott-Stradbrook Park	C	-	5526813.6	633576.8	C181014	AV588
RO-SS-07	0.025	2021/10/18	31	River-Osborne	Scott-Stradbrook Park	C	-	5526815.9	633571.4	C181014	AV589
RV-AA-01	0.025	2021/10/21	54	Riverview	Arnold Avenue Park	C	-	5525685.6	634544.9	C181975	AJC263
RV-AA-02	0.025	2021/10/21	230	Riverview	Arnold Avenue Park	C	-	5525730.7	634526	C181975	AJC264
RV-AA-03	0.025	2021/10/21	43	Riverview	Arnold Avenue Park	C	-	5525722.5	634565.8	C181975	AJC265
RV-AA-04	0.025	2021/10/21	10	Riverview	Arnold Avenue Park	C	-	5525721.3	634606.8	C181975	AJC266
RV-AA-05	0.025	2021/10/21	8.2	Riverview	Arnold Avenue Park	C	-	5525740.5	634603.6	C181975	AJC267
RV-AA-06	0.025	2021/10/21	41	Riverview	Arnold Avenue Park	C	-	5525723.3	634628.6	C181975	AJC268
RV-AA-07	0.025	2021/10/21	80	Riverview	Arnold Avenue Park	C	-	5525742.6	634630.2	C181975	AJC269
RV-AA-08	0.025	2021/10/21	32	Riverview	Arnold Avenue Park	C	-	5525761.5	634668.4	C181975	AJC270
RV-AA-09	0.025	2021/10/21	37	Riverview	Arnold Avenue Park	C	-	5525784	634723.3	C181975	AJC271
RV-AA-10	0.025	2021/10/21	36	Riverview	Arnold Avenue Park	C	-	5525805.7	634778.7	C181975	AJC272
RV-CG-01	0.025	2021/10/21	460	Riverview	Churchill Drive Community Gardens	C	-	5525689.1	635440.6	C181883	AJB514
RV-CG-02	0.025	2021/10/21	20	Riverview	Churchill Drive Community Gardens	C	-	5525727.5	635427.8	C181883	AJB515
RV-CG-03	0.025	2021/10/21	28	Riverview	Churchill Drive Community Gardens	C	-	5525724.8	635358.7	C181883	AJB516
RV-CG-04	0.025	2021/10/21	21	Riverview	Churchill Drive Community Gardens	C	-	5525776	635329.8	C181883	AJB517
RV-CG-05	0.025	2021/10/21	20	Riverview	Churchill Drive Community Gardens	C	-	5525784.2	635379.3	C181883	AJB518
RV-CG-06	0.025	2021/10/21	29	Riverview	Churchill Drive Community Gardens	C	-	5525780.8	635291	C181883	AJB519
RV-CG-07	0.025	2021/10/21	20	Riverview	Churchill Drive Community Gardens	C	-	5525838.7	635286.9	C181883	AJB520
RV-CG-08	0.025	2021/10/21	19	Riverview	Churchill Drive Community Gardens	C	-	5525807.3	635215.1	C181883	AJB521
RV-CG-09	0.025	2021/10/21	21	Riverview	Churchill Drive Community Gardens	C	-	5525875.8	635208.5	C181883	AJB522
RV-CG-10	0.025	2021/10/21	21	Riverview	Churchill Drive Community Gardens	C	-	5525886.5	635121.1	C181883	AJB523
RV-CG-10D (dup)	0.025	2021/10/21	21	Riverview	Churchill Drive Community Gardens	C	-	5525886.5	635121.1	C181883	AJB524
RV-CG-11	0.025	2021/10/21	9	Riverview	Churchill Drive Community Gardens	C	-	5525866.7	634888.4	C181883	AJB525
RV-CP-01	0.025	2021/10/21	9.9	Riverview	Churchill Drive Park	C	-	5524223.4	633755.2	C181883	AJB526
RV-CP-02	0.025	2021/10/21	23	Riverview	Churchill Drive Park	C	-	5524256.9	633951.9	C181883	AJB527
RV-CP-03	0.025	2021/10/21	29	Riverview	Churchill Drive Park	C	-	5524256.1	634215.4	C181883	AJB528
RV-CP-04	0.025	2021/10/21	15	Riverview	Churchill Drive Park	C	-	5524344	634566.7	C181883	AJB529
RV-CP-05	0.025	2021/10/21	46	Riverview	Churchill Drive Park	C	-	5524400	634691.7	C181883	AJB530
RV-CP-05D (dup)	0.025	2021/10/21	32	Riverview	Churchill Drive Park	C	-	5524400	634691.7	C181883	AJB531
RV-CP-06	0.025	2021/10/21	19	Riverview	Churchill Drive Park	C	-	5524393.3	634729.7	C181883	AJB532
RV-CP-07	0.025	2021/10/21	43	Riverview	Churchill Drive Park	C	-	5524433.2	634730.9	C181883	AJB533
RV-CP-08	0.025	2021/10/21	43	Riverview	Churchill Drive Park	C	-	5524434.8	634695.8	C181883	AJB534
RV-CP-09	0.025	2021/10/21	170	Riverview	Churchill Drive Park	C	-	5524498.6	634834.7	C181883	AJB535
RV-CP-10	0.025	2021/10/21	190	Riverview	Churchill Drive Park	C	-	5524615.2	634995.9	C181883	AJB536
RV-CP-11	0.025	2021/10/21	25	Riverview	Churchill Drive Park	C	-	5524752.5	635166.8	C181883	AJB537
RV-CP-12	0.025	2021/10/21	27	Riverview	Churchill Drive Park	C	-	5524880.2	635273.7	C181883	AJB538
RV-CP-13	0.025	2021/10/21	32	Riverview	Churchill Drive Park	C	-	5525073.3	635369.5	C181883	AJB539

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
RV-CP-14	0.025	2021/10/21	170	Riverview	Churchill Drive Park	C	-	5525274.5	635458.9	C181883	AJB540
RV-CP-15	0.025	2021/10/21	38	Riverview	Churchill Drive Park	C	-	5525531.5	635514.8	C181883	AJB541
RV-DT-01	0.025	2021/10/20	20	Riverview	Don Togo Park	C	-	5525845.4	633903.8	C181975	AJC228
RV-DT-01D (dup)	0.025	2021/10/20	20	Riverview	Don Togo Park	C	-	5525845.4	633903.8	C181975	AJC229
RV-DT-02	0.025	2021/10/20	120	Riverview	Don Togo Park	C	-	5525930.6	633801.7	C181975	AJC230
RV-DT-03	0.025	2021/10/20	11	Riverview	Don Togo Park	C	-	5526091.2	633776.2	C181975	AJC231
RV-FP-01	0.025	2021/10/20	32	Riverview	Fisher Park	C	-	5525197.4	634825.9	C181975	AJC220
RV-FP-02	0.025	2021/10/20	45	Riverview	Fisher Park	C	-	5525197.7	634793.9	C181975	AJC221
RV-FP-03	0.025	2021/10/20	42	Riverview	Fisher Park	C	-	5525221.1	634753.1	C181975	AJC222
RV-FP-04	0.025	2021/10/20	40	Riverview	Fisher Park	C	-	5525245.5	634800.3	C181975	AJC223
RV-FP-05	0.025	2021/10/20	32	Riverview	Fisher Park	C	-	5525279	634749.1	C181975	AJC224
RV-FP-06	0.025	2021/10/20	46	Riverview	Fisher Park	C	-	5525305.5	634773.2	C181975	AJC225
RV-FP-07	0.025	2021/10/20	48	Riverview	Fisher Park	C	-	5525295.7	634719.6	C181975	AJC226
RV-FP-08	0.025	2021/10/20	43	Riverview	Fisher Park	C	-	5525160.2	634810.4	C181975	AJC227
RV-RC-01	0.025	2021/10/20	18	Riverview	Riverview C.C	C	-	5525170.7	635258.6	C181975	AJC232
RV-RC-02	0.025	2021/10/20	13	Riverview	Riverview C.C	C	-	5525230.9	635328.6	C181975	AJC233
RV-RC-03	0.025	2021/10/20	46	Riverview	Riverview C.C	C	-	5525266.8	635366.7	C181975	AJC234
RV-RC-04	0.025	2021/10/20	32	Riverview	Riverview C.C	C	-	5525287.9	635347.8	C181975	AJC235
RV-RC-05	0.025	2021/10/20	15	Riverview	Riverview C.C	C	-	5525262.1	635265.1	C181975	AJC236
RV-RC-06	0.025	2021/10/20	17	Riverview	Riverview C.C	C	-	5525298.4	635254.2	C181975	AJC237
RV-RC-07	0.025	2021/10/20	13	Riverview	Riverview C.C	C	-	5525309.5	635233.2	C181975	AJC238
RV-RC-08	0.025	2021/10/20	14	Riverview	Riverview C.C	C	-	5525319.5	635244.4	C181975	AJC239
RV-RC-09	0.025	2021/10/20	8	Riverview	Riverview C.C	C	-	5525341.9	635241.5	C181975	AJC240
RV-RC-10	0.025	2021/10/20	8	Riverview	Riverview C.C	C	-	5525342.7	635226.6	C181975	AJC241
RV-RC-11	0.025	2021/10/20	6.8	Riverview	Riverview C.C	C	-	5525329.7	635215.7	C181975	AJC242
RV-RC-12	0.025	2021/10/20	11	Riverview	Riverview C.C	C	-	5525325.2	635200.2	C181975	AJC243
RV-RC-13	0.025	2021/10/20	12	Riverview	Riverview C.C	C	-	5525318.4	635226.6	C181975	AJC244
RV-RC-14	0.025	2021/10/20	17	Riverview	Riverview C.C	C	-	5525321.6	635313	C181975	AJC245
RV-RC-15	0.025	2021/10/20	13	Riverview	Riverview C.C	C	-	5525272.3	635300.7	C181975	AJC246
RV-RC-15D (dup)	0.025	2021/10/20	15	Riverview	Riverview C.C	C	-	5525272.3	635300.7	C181975	AJC247
RV-RC-16	0.025	2021/10/20	9.3	Riverview	Riverview C.C	C	-	5525223.3	635283.6	C181975	AJC248
RV-RC-17	0.025	2021/10/20	17	Riverview	Riverview C.C	C	-	5525190.7	635317.3	C181975	AJC249
RV-RC-18	0.025	2021/10/20	28	Riverview	Riverview C.C	C	-	5525147.5	635272	C181975	AJC250
RV-RC-19	0.025	2021/10/20	13	Riverview	Riverview C.C	C	-	5525201.9	635235.3	C181975	AJC251
RV-RS-01	0.025	2021/10/20	160	Riverview	Riverview school (N-6)	S	WSD	5525367	634534.2	C181975	AJC252
RV-RS-02	0.025	2021/10/20	13	Riverview	Riverview school (N-6)	S	WSD	5525429.7	634563.8	C181975	AJC253
RV-RS-03	0.025	2021/10/20	17	Riverview	Riverview school (N-6)	S	WSD	5525421.6	634589.3	C181975	AJC254
RV-RS-04	0.025	2021/10/20	29	Riverview	Riverview school (N-6)	S	WSD	5525442.3	634587.8	C181975	AJC255
RV-RS-04D (dup)	0.025	2021/10/20	41	Riverview	Riverview school (N-6)	S	WSD	5525442.3	634587.8	C181975	AJC256
RV-RS-05	0.025	2021/10/20	40	Riverview	Riverview school (N-6)	S	WSD	5525460.3	634578.2	C181975	AJC257
RV-RS-06	0.025	2021/10/20	69	Riverview	Riverview school (N-6)	S	WSD	5525462	634608.6	C181975	AJC258
RV-RS-07	0.025	2021/10/20	22	Riverview	Riverview school (N-6)	S	WSD	5525476	634623.5	C181975	AJC259
RV-RS-08	0.025	2021/10/20	21	Riverview	Riverview school (N-6)	S	WSD	5525445.9	634629.2	C181975	AJC260
RV-RS-09	0.025	2021/10/20	54	Riverview	Riverview school (N-6)	S	WSD	5525423.1	634662.4	C181975	AJC261
RV-RS-10	0.025	2021/10/20	50	Riverview	Riverview school (N-6)	S	WSD	5525412.1	634624.1	C181975	AJC262
RB-JS-01	0.025	2021/11/12	19	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532445.9	632829.8	C189375	ALA002
RB-JS-02	0.025	2021/11/12	67	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532500.5	632877.6	C189375	ALA003
RB-JS-03	0.025	2021/11/12	23	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532479.8	632826	C189375	ALA004
RB-JS-04	0.025	2021/11/12	9	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532472.2	632787.6	C189375	ALA005
RB-JS-05	0.025	2021/11/12	17	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532510.6	632797.7	C189375	ALA006

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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m) Easting (m)		Laboratory Certificate of Analysis No.	Laboratory Sample ID	
CRITERIA ^a			140									
CRITERIA ^b			100-210									
RB-JS-06	0.025	2021/11/12	20	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532511	632752.5	C189375	ALA007	
RB-JS-07	0.025	2021/11/12	65	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532465.8	632730.1	C189375	ALA008	
RB-JS-08	0.025	2021/11/12	52	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532474.7	632710.6	C189375	ALA009	
RB-JS-09	0.025	2021/11/12	15	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532548.7	632701.8	C189375	ALA010	
RB-JS-10	0.025	2021/11/12	33	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532526.7	632635	C189375	ALA011	
RB-JS-11	0.025	2021/11/12	31	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532559.7	632591	C189375	ALA012	
RB-JS-12	0.025	2021/11/12	13	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532598.5	632629.9	C189375	ALA013	
RB-JS-13	0.025	2021/11/12	5.4	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532587.1	632674.3	C189375	ALA014	
RB-JS-14	0.025	2021/11/12	20	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532616.7	632698.4	C189375	ALA015	
RB-JS-14D	(dup)	0.025	2021/11/12	18	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532616.7	632698.4	C189375	ALA016
RB-JS-15	0.025	2021/11/12	130	Robertson	John Shaley Tot Lot / Sinclair Park C.C	C	-	5532672.1	632699.7	C189375	ALA017	
RB-JY-01	0.025	2021/11/12	18	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5532927.8	632040.2	C189375	ALA018	
RB-JY-02	0.025	2021/11/12	110	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5532938.5	632010.1	C189375	ALA019	
RB-JY-03	0.025	2021/11/12	28	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5532956.9	632033.4	C189375	ALA020	
RB-JY-04	0.025	2021/11/12	64	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5532969.1	632058.6	C189375	ALA021	
RB-JY-05	0.025	2021/11/12	40	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5532983.7	632031	C189375	ALA022	
RB-JY-06	0.025	2021/11/12	49	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5532995.5	632070	C189375	ALA023	
RB-JY-07	0.025	2021/11/12	41	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5533014.9	632077.9	C189375	ALA024	
RB-JY-08	0.025	2021/11/12	11	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5533033.5	632095.2	C189375	ALA025	
RB-JY-09	0.025	2021/11/12	23	Robertson	John Yuzyk Park-Sinclair Park C.C-Robertson Site	C	-	5533041.7	632067.2	C189375	ALA026	
RB-LS-01	0.025	2021/11/15	64	Robertson	Lansdowne school (N-8)	S	WSD	5533292.7	632577.5	C189409	ALA403	
RB-LS-02	0.025	2021/11/15	65	Robertson	Lansdowne school (N-8)	S	WSD	5533327.5	632585.3	C189409	ALA404	
RB-LS-03	0.025	2021/11/15	82	Robertson	Lansdowne school (N-8)	S	WSD	5533360.1	632595.3	C189409	ALA405	
RB-LS-04	0.025	2021/11/15	32	Robertson	Lansdowne school (N-8)	S	WSD	5533384.1	632554	C189409	ALA406	
RB-LS-05	0.025	2021/11/15	14	Robertson	Lansdowne school (N-8)	S	WSD	5533350.1	632540.9	C189409	ALA407	
RB-LS-06	0.025	2021/11/15	37	Robertson	Lansdowne school (N-8)	S	WSD	5533313.5	632532.2	C189409	ALA408	
RB-LS-07	0.025	2021/11/15	53	Robertson	Lansdowne school (N-8)	S	WSD	5533337.5	632468.7	C189409	ALA409	
RB-LS-08	0.025	2021/11/15	53	Robertson	Lansdowne school (N-8)	S	WSD	5533379.3	632486.5	C189409	ALA410	
RB-LS-09	0.025	2021/11/15	52	Robertson	Lansdowne school (N-8)	S	WSD	5533410.6	632498.3	C189409	ALA411	
RB-LS-10	0.025	2021/11/15	62	Robertson	Lansdowne school (N-8)	S	WSD	5533431.9	632453	C189409	ALA412	
RB-LS-11	0.025	2021/11/15	55	Robertson	Lansdowne school (N-8)	S	WSD	5533397.5	632429.9	C189409	ALA413	
RB-LS-12	0.025	2021/11/15	76	Robertson	Lansdowne school (N-8)	S	WSD	5533369.3	632419.1	C189409	ALA414	
RB-LS-13	0.025	2021/11/15	45	Robertson	Lansdowne school (N-8)	S	WSD	5533389.7	632368.1	C189409	ALA415	
RB-LS-14	0.025	2021/11/15	40	Robertson	Lansdowne school (N-8)	S	WSD	5533420.2	632382.5	C189409	ALA416	
RB-LS-15	0.025	2021/11/15	42	Robertson	Lansdowne school (N-8)	S	WSD	5533450.6	632412.1	C189409	ALA417	
RB-LS-15D	(dup)	0.025	2021/11/15	43	Robertson	Lansdowne school (N-8)	S	WSD	5533450.6	632412.1	C189409	ALA418
RB-LS-16	0.025	2021/11/15	17	Robertson	Lansdowne school (N-8)	S	WSD	5533455.9	632252.4	C189409	ALA419	
RB-PB-01	0.025	2021/11/12	18	Robertson	Polson Bay Park-4	C	-	5533048.5	632664.7	C189375	AKZ999	
RB-PB-02	0.025	2021/11/12	46	Robertson	Polson Bay Park-4	C	-	5533061	632638.3	C189375	ALA000	
RB-PB-03	0.025	2021/11/12	51	Robertson	Polson Bay Park-4	C	-	5533071.5	632610.7	C189375	ALA001	
RB-RS-01	0.025	2021/11/12	33	Robertson	Robertson school (N-6)	S	WSD	5532914.7	632225.1	C189375	ALA027	
RB-RS-02	0.025	2021/11/12	21	Robertson	Robertson school (N-6)	S	WSD	5532882.2	632141.4	C189375	ALA028	
RB-RS-03	0.025	2021/11/12	21	Robertson	Robertson school (N-6)	S	WSD	5532896.9	632102.2	C189375	ALA029	
RB-RS-04	0.025	2021/11/12	65	Robertson	Robertson school (N-6)	S	WSD	5532921.4	632060.8	C189375	ALA030	
RB-RS-05	0.025	2021/11/12	57	Robertson	Robertson school (N-6)	S	WSD	5532942.7	632099.9	C189375	ALA031	
RB-RS-06	0.025	2021/11/12	13	Robertson	Robertson school (N-6)	S	WSD	5532934.3	632158.4	C189375	ALA032	
RB-RS-07	0.025	2021/11/12	41	Robertson	Robertson school (N-6)	S	WSD	5532957.6	632132.7	C189375	ALA033	
RB-RS-07D	(dup)	0.025	2021/11/12	44	Robertson	Robertson school (N-6)	S	WSD	5532957.6	632132.7	C189375	ALA034
RB-RS-08	0.025	2021/11/12	34	Robertson	Robertson school (N-6)	S	WSD	5532980.1	632085.3	C189375	ALA035	
RB-RS-09	0.025	2021/11/12	48	Robertson	Robertson school (N-6)	S	WSD	5533029	632107.4	C189375	ALA036	
RB-RS-10	0.025	2021/11/12	15	Robertson	Robertson school (N-6)	S	WSD	5532996.8	632127	C189375	ALA037	

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CRITERIA^a			140								
CRITERIA^b			100-210								
RB-RS-11	0.025	2021/11/12	81	Robertson	Robertson school (N-6)	S	WSD	5532994.2	632162.7	C189375	ALA038
RB-RS-12	0.025	2021/11/12	13	Robertson	Robertson school (N-6)	S	WSD	5532983	632195.2	C189375	ALA039
SG-CB-01	0.025	2021/11/18	75	Sargent Park	Clifton Bay Park-3	C	-	5529447.2	630335.1	C193750	ALW532
SG-CB-02	0.025	2021/11/18	48	Sargent Park	Clifton Bay Park-3	C	-	5529469.8	630335.2	C193750	ALW533
SG-CB-03	0.025	2021/11/18	56	Sargent Park	Clifton Bay Park-3	C	-	5529492.3	630335	C193750	ALW534
SG-CS-01	0.025	2021/11/19	59	Sargent Park	Clifton school (N-6)	S	WSD	5528809.7	630265.9	C193749	ALW519
SG-CS-02	0.025	2021/11/19	110	Sargent Park	Clifton school (N-6)	S	WSD	5528820.6	630319.3	C193749	ALW520
SG-CS-03	0.025	2021/11/19	210	Sargent Park	Clifton school (N-6)	S	WSD	5528856.3	630319.7	C193749	ALW521
SG-CS-04	0.025	2021/11/19	160	Sargent Park	Clifton school (N-6)	S	WSD	5528898.6	630321.6	C193749	ALW522
SG-CS-05	0.025	2021/11/19	71	Sargent Park	Clifton school (N-6)	S	WSD	5528941.4	630272.9	C193749	ALW523
SG-CS-05D (dup)	0.025	2021/11/19	76	Sargent Park	Clifton school (N-6)	S	WSD	5528941.4	630272.9	C193749	ALW524
SG-CS-06	0.025	2021/11/19	73	Sargent Park	Clifton school (N-6)	S	WSD	5528952.4	630322.4	C193749	ALW525
SG-CS-07	0.025	2021/11/19	97	Sargent Park	Clifton school (N-6)	S	WSD	5528976.2	630295.9	C193749	ALW526
SG-CS-08	0.025	2021/11/19	140	Sargent Park	Clifton school (N-6)	S	WSD	5528994.8	630271.4	C193749	ALW527
SG-CS-09	0.025	2021/11/19	100	Sargent Park	Clifton school (N-6)	S	WSD	5529009.8	630320.4	C193749	ALW528
SG-CS-10	0.025	2021/11/19	140	Sargent Park	Clifton school (N-6)	S	WSD	5529028.8	630299.5	C193749	ALW529
SG-CS-11	0.025	2021/11/19	33	Sargent Park	Clifton school (N-6)	S	WSD	5529053.4	630273.3	C193749	ALW530
SG-CS-12	0.025	2021/11/19	100	Sargent Park	Clifton school (N-6)	S	WSD	5529060.5	630322	C193749	ALW531
SG-PS-01	0.025	2021/11/19	15	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529611.4	631069	C193749	ALW509
SG-PS-02	0.025	2021/11/19	40	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529641.1	631064.8	C193749	ALW510
SG-PS-03	0.025	2021/11/19	48	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529649.8	631043.1	C193749	ALW511
SG-PS-04	0.025	2021/11/19	42	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529655.9	631020.8	C193749	ALW512
SG-PS-05	0.025	2021/11/19	75	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529681.6	631025.5	C193749	ALW513
SG-PS-06	0.025	2021/11/19	51	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529683.2	631048	C193749	ALW514
SG-PS-07	0.025	2021/11/19	97	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529673.2	631067.9	C193749	ALW515
SG-PS-08	0.025	2021/11/19	84	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529706.9	631070.4	C193749	ALW516
SG-PS-09	0.025	2021/11/19	68	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529706.9	631047.5	C193749	ALW517
SG-PS-10	0.025	2021/11/19	28	Sargent Park	Principal Sparling school (N-6)	S	WSD	5529712	631022.7	C193749	ALW518
SG-SP-01	0.025	2021/11/18	18	Sargent Park	Sargent Park	C	-	5528830.3	630609.4	C193750	ALW550
SG-SP-02	0.025	2021/11/18	22	Sargent Park	Sargent Park	C	-	5528875.5	630605.6	C193750	ALW551
SG-SP-03	0.025	2021/11/18	19	Sargent Park	Sargent Park	C	-	5528943.7	630597.6	C193750	ALW552
SG-SP-04	0.025	2021/11/18	27	Sargent Park	Sargent Park	C	-	5528936.9	630790.1	C193750	ALW553
SG-SP-05	0.025	2021/11/18	42	Sargent Park	Sargent Park	C	-	5529051	630795.5	C193750	ALW554
SG-SP-06	0.025	2021/11/18	13	Sargent Park	Sargent Park	C	-	5529058.5	630647.7	C193750	ALW555
SG-SP-07	0.025	2021/11/18	110	Sargent Park	Sargent Park	C	-	5529086.7	630709.9	C193750	ALW556
SG-SP-07D (dup)	0.025	2021/11/18	190	Sargent Park	Sargent Park	C	-	5529086.7	630709.9	C193750	ALW557
SG-SP-08	0.025	2021/11/18	45	Sargent Park	Sargent Park	C	-	5529095.2	630783.8	C193750	ALW558
SG-SP-09	0.025	2021/11/18	84	Sargent Park	Sargent Park	C	-	5529131.9	630728.5	C193750	ALW559
SG-SP-10	0.025	2021/11/18	25	Sargent Park	Sargent Park	C	-	5529136.1	630652.4	C193750	ALW560
SG-SS-01	0.025	2021/11/18	150	Sargent Park	Sargent Park school (N-9)	S	WSD	5528800	630867.5	C193750	ALW561
SG-SS-02	0.025	2021/11/18	37	Sargent Park	Sargent Park school (N-9)	S	WSD	5528810.5	630866.2	C193750	ALW562
SG-SS-03	0.025	2021/11/19	31	Sargent Park	Sargent Park school (N-9)	S	WSD	5528817.7	630844	C193750	ALW563
SG-SS-04	0.025	2021/11/19	93	Sargent Park	Sargent Park school (N-9)	S	WSD	5528799.1	630827.5	C193750	ALW564
SG-SS-05	0.025	2021/11/19	26	Sargent Park	Sargent Park school (N-9)	S	WSD	5528812.8	630826.2	C193750	ALW565
SG-SS-06	0.025	2021/11/19	26	Sargent Park	Sargent Park school (N-9) - Adjacent City Property	C [in use by S]	WSD	5528806	630809.7	C193750	ALW566
SG-SS-07	0.025	2021/11/19	53	Sargent Park	Sargent Park school (N-9) - Adjacent City Property	C [in use by S]	WSD	5528846.5	630810.8	C193750	ALW567
SG-SS-08	0.025	2021/11/19	70	Sargent Park	Sargent Park school (N-9) - Adjacent City Property	C [in use by S]	WSD	5528876.9	630811.9	C193750	ALW568
SG-SS-09	0.025	2021/11/19	24	Sargent Park	Sargent Park school (N-9) - Adjacent City Property	C [in use by S]	WSD	5528910.3	630812.2	C193750	ALW569

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsic Corp., Nov. 29, 2019.

c - WSD: Winnipeg School Division, DS: Division Scolaire Franco-Manitobaine, LR: Louis Riel School Division, SJ: St. James Assiniboia School Division, IS: independent school.

d - GPS coordinates are in NAD 83/Zone 14.

"" - Not applicable

(dup) - Duplicate

mbgs - metres below ground surface

(re-run) - Sample re-run by laboratory on original soil

C [in use by S] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsic criterion

BOLD - Exceeds applicable CCME criterion

Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID	
								Northing (m)	Easting (m)			
CRITERIA ^a			140									
CRITERIA ^b			100-210									
SG-SS-12	0.025	2021/11/19	18	Sargent Park	Sargent Park school (N-9)	S	WSD	5528924.8	630888.1	C193750	ALW57	
SG-VC-01	0.025	2021/11/18	13	Sargent Park	Valour C.C-Clifton Site	C	-	5529034	629880.7	C193750	ALW535	
SG-VC-02	0.025	2021/11/18	12	Sargent Park	Valour C.C-Clifton Site	C	-	5529090.3	629884	C193750	ALW536	
SG-VC-03	0.025	2021/11/18	11	Sargent Park	Valour C.C-Clifton Site	C	-	5529145.7	629886.5	C193750	ALW537	
SG-VC-04	0.025	2021/11/18	18	Sargent Park	Valour C.C-Clifton Site	C	-	5529243.5	629900.6	C193750	ALW538	
SG-VC-04D	(dup)	0.025	2021/11/18	13	Sargent Park	Valour C.C-Clifton Site	C	-	5529243.5	629900.6	C193750	ALW539
SG-VC-05	0.025	2021/11/18	42	Sargent Park	Valour C.C-Clifton Site	C	-	5529240.8	630023.9	C193750	ALW540	
SG-VC-06	0.025	2021/11/18	99	Sargent Park	Valour C.C-Clifton Site	C	-	5529248.6	630004.7	C193750	ALW541	
SG-VC-07	0.025	2021/11/18	110	Sargent Park	Valour C.C-Clifton Site	C	-	5529351.6	630002.4	C193750	ALW542	
SG-VC-08	0.025	2021/11/18	110	Sargent Park	Valour C.C-Clifton Site	C	-	5529353.6	629979.7	C193750	ALW543	
SG-VC-09	0.025	2021/11/18	12	Sargent Park	Valour C.C-Clifton Site	C	-	5529305.6	629874.1	C193750	ALW544	
SG-VC-10	0.025	2021/11/18	10	Sargent Park	Valour C.C-Clifton Site	C	-	5529370.1	629917.1	C193750	ALW545	
SG-VC-11	0.025	2021/11/18	68	Sargent Park	Valour C.C-Clifton Site	C	-	5529403.3	629994.1	C193750	ALW546	
SG-VC-12	0.025	2021/11/18	17	Sargent Park	Valour C.C-Clifton Site	C	-	5529449.6	629934.5	C193750	ALW547	
SG-VC-13	0.025	2021/11/18	50	Sargent Park	Valour C.C-Clifton Site	C	-	5529467	629998.3	C193750	ALW548	
SG-VC-14	0.025	2021/11/18	28	Sargent Park	Valour C.C-Clifton Site	C	-	5529534.1	630001.6	C193750	ALW549	
SP-LN-01	0.025	2021/11/10	25	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532323.4	631396.1	C189363	AKZ920	
SP-LN-02	0.025	2021/11/10	16	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532345.5	631389.8	C189363	AKZ921	
SP-LN-03	0.025	2021/11/10	19	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532382.3	631401.5	C189363	AKZ922	
SP-LN-04	0.025	2021/11/10	15	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532427.3	631313	C189363	AKZ923	
SP-LN-05	0.025	2021/11/10	14	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532404	631298.2	C189363	AKZ924	
SP-LN-06	0.025	2021/11/10	76	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532380.4	631276.8	C189363	AKZ925	
SP-LN-07	0.025	2021/11/10	80	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532400.6	631221.6	C189363	AKZ926	
SP-LN-08	0.025	2021/11/10	34	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532420.4	631265.7	C189363	AKZ927	
SP-LN-09	0.025	2021/11/10	49	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532451.3	631256	C189363	AKZ928	
SP-LN-10	0.025	2021/11/10	35	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532434.9	631226.4	C189363	AKZ929	
SP-LN-11	0.025	2021/11/10	14	Shaughnessy Park	Lord Nelson school (N-6)	S	WSD	5532443.4	631176.6	C189363	AKZ930	
SP-NW-01	0.025	2021/11/10	29	Shaughnessy Park	Northwood C.C	C	-	5532433.5	630769.5	C189363	AKZ907	
SP-NW-02	0.025	2021/11/10	24	Shaughnessy Park	Northwood C.C	C	-	5532448.7	630740.9	C189363	AKZ908	
SP-NW-03	0.025	2021/11/10	68	Shaughnessy Park	Northwood C.C	C	-	5532456.5	630709.9	C189363	AKZ909	
SP-NW-04	0.025	2021/11/10	52	Shaughnessy Park	Northwood C.C	C	-	5532473.5	630727.9	C189363	AKZ910	
SP-NW-05	0.025	2021/11/10	30	Shaughnessy Park	Northwood C.C	C	-	5532480.8	630695.4	C189363	AKZ911	
SP-NW-06	0.025	2021/11/10	19	Shaughnessy Park	Northwood C.C	C	-	5532498.8	630714.5	C189363	AKZ912	
SP-NW-07	0.025	2021/11/10	72	Shaughnessy Park	Northwood C.C	C	-	5532497.8	630737.2	C189363	AKZ913	
SP-NW-08	0.025	2021/11/10	69	Shaughnessy Park	Northwood C.C	C	-	5532524.7	630712.2	C189363	AKZ914	
SP-NW-09	0.025	2021/11/10	60	Shaughnessy Park	Northwood C.C	C	-	5532526.3	630734.3	C189363	AKZ915	
SP-NW-10	0.025	2021/11/10	77	Shaughnessy Park	Northwood C.C	C	-	5532519.4	630753.6	C189363	AKZ916	
SP-NW-11	0.025	2021/11/10	13	Shaughnessy Park	Northwood C.C	C	-	5532509.9	630771.8	C189363	AKZ917	
SP-NW-12	0.025	2021/11/10	11	Shaughnessy Park	Northwood C.C	C	-	5532496.9	630801.3	C189363	AKZ918	
SP-NW-13	0.025	2021/11/10	13	Shaughnessy Park	Northwood C.C	C	-	5532464.9	630790.7	C189363	AKZ919	
SP-NW-14	0.025	2021/11/10	29	Shaughnessy Park	Northwood C.C	C	-	5532478.1	630761.8	C189363	AKZ931	
SP-RH-01	0.025	2021/11/10	21	Shaughnessy Park	Rick Hudson Park	C	-	5532547.1	630571.4	C189363	AKZ896	
SP-RH-02	0.025	2021/11/10	28	Shaughnessy Park	Rick Hudson Park	C	-	5532568.5	630581.7	C189363	AKZ897	
SP-RH-03	0.025	2021/11/10	68	Shaughnessy Park	Rick Hudson Park	C	-	5532608.4	630614.2	C189363	AKZ898	
SP-RH-04	0.025	2021/11/10	52	Shaughnessy Park	Rick Hudson Park	C	-	5532661.8	630694.7	C189363	AKZ899	
SP-RH-05	0.025	2021/11/10	7.3	Shaughnessy Park	Rick Hudson Park	C	-	5532702.1	630626.9	C189363	AKZ900	
SP-RH-05D	(dup)	0.025	2021/11/10	16	Shaughnessy Park	Rick Hudson Park	C	-	5532702.1	630626.9	C189363	AKZ901
SP-RH-06	0.025	2021/11/10	30	Shaughnessy Park	Rick Hudson Park	C	-	5532741.8	630542.5	C189363	AKZ902	
SP-RH-07	0.025	2021/11/10	19	Shaughnessy Park	Rick Hudson Park	C	-	5532788.1	630437.2	C189363	AKZ903	
SP-RH-08	0.025	2021/11/10	56	Shaughnessy Park	Rick Hudson Park	C	-	5532698.2	630420.7	C189363	AKZ904	
SP-RH-09	0.025	2021/11/10	32	Shaughnessy Park	Rick Hudson Park	C	-	5532648.6	630516.1	C189363	AKZ905	

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"" - Not applicable

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mbgs - metres below ground surface

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
SP-RH-10	0.025	2021/11/10	32	Shaughnessy Park	Rick Hudson Park	C	-	5532601.7	630533.7	C189363	AKZ906
SD-FD-01	0.025	2021/11/02	20	South Point Douglas	Fort Douglas Park	C	-	5529190.3	634236.6	C185629	AJZ096
SD-FD-01D	(dup)	0.025	14	South Point Douglas	Fort Douglas Park	C	-	5529190.3	634236.6	C185629	AJZ097
SD-FD-02	0.025	2021/11/02	55	South Point Douglas	Fort Douglas Park	C	-	5529238.9	634279.2	C185629	AJZ098
SD-FD-03	0.025	2021/11/02	70	South Point Douglas	Fort Douglas Park	C	-	5529273.4	634359.1	C185629	AJZ099
SD-FD-04	0.025	2021/11/02	380	South Point Douglas	Fort Douglas Park	C	-	5529288.1	634416.8	C185629	AJZ100
SD-GS-01	0.025	2021/11/02	170	South Point Douglas	Grace Street Tot Lot	C	-	5529432.6	635421.4	C185629	AJZ082
SD-GS-02	0.025	2021/11/02	58	South Point Douglas	Grace Street Tot Lot	C	-	5529440	635418.1	C185629	AJZ083
SD-GS-03	0.025	2021/11/02	110	South Point Douglas	Grace Street Tot Lot	C	-	5529448.9	635426.5	C185629	AJZ084
SD-GS-04	0.025	2021/11/02	87	South Point Douglas	Grace Street Tot Lot	C	-	5529454.5	635421.2	C185629	AJZ085
SD-GS-05	0.025	2021/11/02	100	South Point Douglas	Grace Street Tot Lot	C	-	5529459.5	635414.6	C185629	AJZ086
SD-GS-06	0.025	2021/11/02	91	South Point Douglas	Grace Street Tot Lot	C	-	5529461.5	635400.1	C185629	AJZ087
SD-GS-07	0.025	2021/11/02	140	South Point Douglas	Grace Street Tot Lot	C	-	5529453.7	635404.8	C185629	AJZ088
SD-GS-08	0.025	2021/11/02	130	South Point Douglas	Grace Street Tot Lot	C	-	5529449	635414.1	C185629	AJZ089
SD-GS-09	0.025	2021/11/02	170	South Point Douglas	Grace Street Tot Lot	C	-	5529446.5	635405.8	C185629	AJZ090
SD-GS-10	0.025	2021/11/02	33	South Point Douglas	Grace Street Tot Lot	C	-	5529440.6	635399.2	C185629	AJZ091
SD-WW-01	0.025	2021/11/02	110	South Point Douglas	William Whyte Park	C	-	5529622.6	634130.6	C185629	AJZ092
SD-WW-02	0.025	2021/11/02	240	South Point Douglas	William Whyte Park	C	-	5529626.7	634141.6	C185629	AJZ093
SD-WW-03	0.025	2021/11/02	240	South Point Douglas	William Whyte Park	C	-	5529633.1	634137	C185629	AJZ094
SD-WW-04	0.025	2021/11/02	290	South Point Douglas	William Whyte Park	C	-	5529636.4	634152.3	C185629	AJZ095
BI-CS-01	0.025	2021/10/29	11	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526867.6	641532.6	C185266	AJW984
BI-CS-02	0.025	2021/10/29	12	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526915.7	641525	C185266	AJW985
BI-CS-02D	(dup)	0.025	8.9	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526915.7	641525	C185266	AJW986
BI-CS-03	0.025	2021/10/29	9.7	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526916.7	641504.9	C185266	AJW987
BI-CS-04	0.025	2021/10/29	10	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526933.4	641506.1	C185266	AJW988
BI-CS-05	0.025	2021/10/29	11	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526938.5	641529.9	C185266	AJW989
BI-CS-06	0.025	2021/10/29	10	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526961.6	641528.8	C185266	AJW990
BI-CS-07	0.025	2021/10/29	9.6	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526960.4	641504.4	C185266	AJW991
BI-CS-08	0.025	2021/10/29	12	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526962.1	641481.4	C185266	AJW992
BI-CS-09	0.025	2021/10/29	9.2	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526946.6	641502.5	C185266	AJW993
BI-CS-10	0.025	2021/10/29	11	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526940.8	641489.3	C185266	AJW994
BI-CS-11	0.025	2021/10/29	11	St. Boniface Industrial Park	Camiel Sys Park	C	-	5526896.6	641532.1	C185266	AJW995
BI-MP-01	0.025	2021/10/29	17	St. Boniface Industrial Park	Mazenod Park	C	-	5527001.2	640240.8	C185266	AJX005
BI-MP-03	0.025	2021/10/29	13	St. Boniface Industrial Park	Mazenod Park	C	-	5527229.8	640398.6	C185266	AJX006
BI-MP-06	0.025	2021/10/29	14	St. Boniface Industrial Park	Mazenod Park	C	-	5527416.1	640163.1	C185266	AJX007
BI-MP-08	0.025	2021/10/29	16	St. Boniface Industrial Park	Mazenod Park	C	-	5527320.6	640253.9	C185266	AJX008
BI-MP-09	0.025	2021/10/29	16	St. Boniface Industrial Park	Mazenod Park	C	-	5527199	640160	C185266	AJX009
BI-MS-01	0.025	2021/10/29	28	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526874.5	638549.8	C185266	AJW971
BI-MS-02	0.025	2021/10/29	10	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526900.9	638604.3	C185266	AJW972
BI-MS-03	0.025	2021/10/29	11	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526901.1	638643.2	C185266	AJW973
BI-MS-04	0.025	2021/10/29	28	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526935.1	638666.9	C185266	AJW974
BI-MS-05	0.025	2021/10/29	44	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526986.4	638705.4	C185266	AJW975
BI-MS-06	0.025	2021/10/29	57	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526977	638640.7	C185266	AJW976
BI-MS-07	0.025	2021/10/29	50	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526947.9	638607.2	C185266	AJW977
BI-MS-08	0.025	2021/10/29	27	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526927.7	638569.6	C185266	AJW978
BI-MS-09	0.025	2021/10/29	82	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526965.5	638560.8	C185266	AJW979
BI-MS-10	0.025	2021/10/29	64	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526994.1	638587.4	C185266	AJW980
BI-MS-11	0.025	2021/10/29	190	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5527008.7	638537.8	C185266	AJW981
BI-MS-11D	(dup)	0.025	210	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5527008.7	638537.8	C185266	AJW982

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m) Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140							
CRITERIA^b			100-210							
BI-MS-12	0.025	2021/10/29	79	St. Boniface Industrial Park	McLeans Pumping Station	C	-	5526939.1 638536.6	C185266	AJW983
BI-SP-01	0.025	2021/10/29	12	St. Boniface Industrial Park	Shady Shores Park	C	-	5527241.2 641410.7	C185266	AJW996
BI-SP-02	0.025	2021/10/29	10	St. Boniface Industrial Park	Shady Shores Park	C	-	5527251.1 641394.5	C185266	AJW997
BI-SP-03	0.025	2021/10/29	13	St. Boniface Industrial Park	Shady Shores Park	C	-	5527256.9 641417.9	C185266	AJW998
BI-SP-04	0.025	2021/10/29	9.4	St. Boniface Industrial Park	Shady Shores Park	C	-	5527284.3 641410.9	C185266	AJW999
BI-SP-05	0.025	2021/10/29	8.9	St. Boniface Industrial Park	Shady Shores Park	C	-	5527283.8 641382.2	C185266	AJX000
BI-SP-06	0.025	2021/10/29	10	St. Boniface Industrial Park	Shady Shores Park	C	-	5527317.4 641395.4	C185266	AJX001
BI-SP-07	0.025	2021/10/29	8.1	St. Boniface Industrial Park	Shady Shores Park	C	-	5527328.4 641361.4	C185266	AJX002
BI-SP-08	0.025	2021/10/29	7.6	St. Boniface Industrial Park	Shady Shores Park	C	-	5527353.4 641408	C185266	AJX003
BI-SP-09	0.025	2021/10/29	11	St. Boniface Industrial Park	Shady Shores Park	C	-	5527352.5 641379.6	C185266	AJX004
SJ-AL-01	0.025	2021/11/04	120	St. John's	Andrews Tot Lot	C	-	5532489.5 633934.6	C187009	AKJ354
SJ-AL-02	0.025	2021/11/04	61	St. John's	Andrews Tot Lot	C	-	5532505.2 633942	C187009	AKJ355
SJ-AL-03	0.025	2021/11/04	12	St. John's	Andrews Tot Lot	C	-	5532501.3 633910.3	C187009	AKJ356
SJ-AL-04	0.025	2021/11/04	27	St. John's	Andrews Tot Lot	C	-	5532518.7 633917.8	C187009	AKJ357
SJ-AL-05	0.025	2021/11/04	36	St. John's	Andrews Tot Lot	C	-	5532513.7 633905.4	C187009	AKJ358
SJ-AL-06	0.025	2021/11/04	21	St. John's	Andrews Tot Lot	C	-	5532508.7 633892.2	C187009	AKJ359
SJ-AL-07	0.025	2021/11/04	41	St. John's	Andrews Tot Lot	C	-	5532517 633870.9	C187009	AKJ360
SJ-AL-08	0.025	2021/11/04	43	St. John's	Andrews Tot Lot	C	-	5532522.4 633886.3	C187009	AKJ361
SJ-AL-09	0.025	2021/11/04	51	St. John's	Andrews Tot Lot	C	-	5532525.3 633900.7	C187009	AKJ362
SJ-AL-10	0.025	2021/11/04	49	St. John's	Andrews Tot Lot	C	-	5532535.4 633881.6	C187009	AKJ363
SJ-CS-01	0.025	2021/11/04	27	St. John's	Champlain school (N-6)	S	WSD	5531758.4 634231.9	C187009	AKJ398
SJ-CS-02	0.025	2021/11/04	53	St. John's	Champlain school (N-6)	S	WSD	5531791.4 634247.1	C187009	AKJ399
SJ-CS-03	0.025	2021/11/04	190	St. John's	Champlain school (N-6)	S	WSD	5531795.2 634282.8	C187009	AKJ400
SJ-CS-04	0.025	2021/11/04	32	St. John's	Champlain school (N-6)	S	WSD	5531829.4 634295.2	C187009	AKJ401
SJ-CS-05	0.025	2021/11/04	18	St. John's	Champlain school (N-6)	S	WSD	5531817.7 634275.3	C187009	AKJ402
SJ-CS-06	0.025	2021/11/04	19	St. John's	Champlain school (N-6)	S	WSD	5531832.2 634254.8	C187009	AKJ403
SJ-CS-07	0.025	2021/11/04	19	St. John's	Champlain school (N-6)	S	WSD	5531852.2 634245.9	C187009	AKJ404
SJ-CS-08	0.025	2021/11/04	29	St. John's	Champlain school (N-6)	S	WSD	5531861 634211	C187009	AKJ405
SJ-CS-09	0.025	2021/11/04	11	St. John's	Champlain school (N-6)	S	WSD	5531822.4 634200.8	C187009	AKJ406
SJ-CS-10	0.025	2021/11/04	24	St. John's	Champlain school (N-6)	S	WSD	5531822.9 634230.7	C187009	AKJ407
SJ-MP-01	0.025	2021/11/04	76	St. John's	Machray Park	C	-	5531897.6 633715	C187009	AKJ364
SJ-MP-02	0.025	2021/11/04	48	St. John's	Machray Park	C	-	5531929.1 633730.2	C187009	AKJ365
SJ-MP-03	0.025	2021/11/04	33	St. John's	Machray Park	C	-	5531948.8 633740	C187009	AKJ366
SJ-MP-04	0.025	2021/11/04	11	St. John's	Machray Park	C	-	5531952.1 633722.2	C187009	AKJ367
SJ-MP-05	0.025	2021/11/04	31	St. John's	Machray Park	C	-	5531954.4 633701.4	C187009	AKJ368
SJ-MP-06	0.025	2021/11/04	18	St. John's	Machray Park	C	-	5531937.6 633695.3	C187009	AKJ369
SJ-MP-07	0.025	2021/11/04	34	St. John's	Machray Park	C	-	5531932.2 633661.2	C187009	AKJ370
SJ-MP-08	0.025	2021/11/04	41	St. John's	Machray Park	C	-	5531943.4 633633.8	C187009	AKJ371
SJ-MP-09	0.025	2021/11/04	52	St. John's	Machray Park	C	-	5531984.6 633654.1	C187009	AKJ372
SJ-MP-10	0.025	2021/11/04	56	St. John's	Machray Park	C	-	5531981.6 633610.6	C187009	AKJ373
SJ-MP-11	0.025	2021/11/04	38	St. John's	Machray Park	C	-	5531971.7 633568	C187009	AKJ374
SJ-MP-12	0.025	2021/11/04	54	St. John's	Machray Park	C	-	5532011.3 633590.7	C187009	AKJ375
SJ-MS-01	0.025	2021/11/04	43	St. John's	Machray school (N-6)	S	WSD	5531349 634125.8	C187009	AKJ387
SJ-MS-02	0.025	2021/11/04	23	St. John's	Machray school (N-6)	S	WSD	5531409.2 634154.3	C187009	AKJ388
SJ-MS-03	0.025	2021/11/04	41	St. John's	Machray school (N-6)	S	WSD	5531441.5 634064.9	C187009	AKJ389
SJ-MS-04	0.025	2021/11/04	22	St. John's	Machray school (N-6)	S	WSD	5531455.7 634035.6	C187009	AKJ390
SJ-MS-05	0.025	2021/11/04	21	St. John's	Machray school (N-6)	S	WSD	5531435.1 634045.4	C187009	AKJ391
SJ-MS-06	0.025	2021/11/04	47	St. John's	Machray school (N-6)	S	WSD	5531426.6 634022	C187009	AKJ392
SJ-MS-06D (dup)	0.025	2021/11/04	40	St. John's	Machray school (N-6)	S	WSD	5531426.6 634022	C187009	AKJ393
SJ-MS-07	0.025	2021/11/04	21	St. John's	Machray school (N-6)	S	WSD	5531411.9 634050.3	C187009	AKJ394

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TABLE 1
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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
SJ-MS-08	0.025	2021/11/04	30	St. John's	Machray school (N-6)	S	WSD	5531397.9	634032.2	C187009	AKJ395
SJ-MS-09	0.025	2021/11/04	34	St. John's	Machray school (N-6)	S	WSD	5531392.8	634006.4	C187009	AKJ396
SJ-MS-10	0.025	2021/11/04	31	St. John's	Machray school (N-6)	S	WSD	5531375.8	634048.3	C187009	AKJ397
SJ-RB-01	0.025	2021/11/04	24	St. John's	Ralph Brown school (N-8)	S	WSD	5532117.4	633521.6	C187009	AKJ376
SJ-RB-02	0.025	2021/11/04	36	St. John's	Ralph Brown school (N-8)	S	WSD	5532114	633494.8	C187009	AKJ377
SJ-RB-03	0.025	2021/11/04	11	St. John's	Ralph Brown school (N-8)	S	WSD	5532125.2	633468	C187009	AKJ378
SJ-RB-04	0.025	2021/11/04	9.7	St. John's	Ralph Brown school (N-8)	S	WSD	5532137.9	633492.8	C187009	AKJ379
SJ-RB-05	0.025	2021/11/04	15	St. John's	Ralph Brown school (N-8)	S	WSD	5532149.1	633516	C187009	AKJ380
SJ-RB-06	0.025	2021/11/04	15	St. John's	Ralph Brown school (N-8)	S	WSD	5532160.4	633479.9	C187009	AKJ381
SJ-RB-06D (dup)	0.025	2021/11/04	14	St. John's	Ralph Brown school (N-8)	S	WSD	5532160.4	633479.9	C187009	AKJ382
SJ-RB-07	0.025	2021/11/04	18	St. John's	Ralph Brown school (N-8)	S	WSD	5532151.3	633456.5	C187009	AKJ383
SJ-RB-08	0.025	2021/11/04	18	St. John's	Ralph Brown school (N-8)	S	WSD	5532145.7	633426.2	C187009	AKJ384
SJ-RB-09	0.025	2021/11/04	21	St. John's	Ralph Brown school (N-8)	S	WSD	5532177.2	633440.1	C187009	AKJ385
SJ-RB-10	0.025	2021/11/04	58	St. John's	Ralph Brown school (N-8)	S	WSD	5532148.4	633609.2	C187009	AKJ386
SJ-SL-01	0.025	2021/11/03	75	St. John's	Salter Tot Lot	C	-	5532311.7	634301.1	C187009	AKJ343
SJ-SL-02	0.025	2021/11/03	49	St. John's	Salter Tot Lot	C	-	5532326.6	634306.9	C187009	AKJ344
SJ-SL-03	0.025	2021/11/03	71	St. John's	Salter Tot Lot	C	-	5532338.4	634311.9	C187009	AKJ345
SJ-SL-04	0.025	2021/11/03	92	St. John's	Salter Tot Lot	C	-	5532334	634283.3	C187009	AKJ346
SJ-SL-05	0.025	2021/11/03	92	St. John's	Salter Tot Lot	C	-	5532331.5	634258.2	C187009	AKJ347
SJ-SL-06	0.025	2021/11/03	15	St. John's	Salter Tot Lot	C	-	5532348.9	634220.1	C187009	AKJ348
SJ-SL-07	0.025	2021/11/03	96	St. John's	Salter Tot Lot	C	-	5532355	634242.5	C187009	AKJ349
SJ-SL-08	0.025	2021/11/03	20	St. John's	Salter Tot Lot	C	-	5532360.8	634229.3	C187009	AKJ350
SJ-SL-08D (dup)	0.025	2021/11/03	21	St. John's	Salter Tot Lot	C	-	5532360.8	634229.3	C187009	AKJ351
SJ-SL-09	0.025	2021/11/03	15	St. John's	Salter Tot Lot	C	-	5532372.1	634235.1	C187009	AKJ352
SJ-SL-10	0.025	2021/11/03	53	St. John's	Salter Tot Lot	C	-	5532354.6	634272.4	C187009	AKJ353
JP-JP-01	0.025	2021/11/03	120	St. John's Park	St. John's Park	C	-	5531310.5	634318	C186830	AKI114
JP-JP-02	0.025	2021/11/03	130	St. John's Park	St. John's Park	C	-	5531365.8	634331.9	C186830	AKI115
JP-JP-03	0.025	2021/11/03	16	St. John's Park	St. John's Park	C	-	5531409.8	634375.2	C186830	AKI116
JP-JP-04	0.025	2021/11/03	53	St. John's Park	St. John's Park	C	-	5531393.1	634413.9	C186830	AKI117
JP-JP-05	0.025	2021/11/03	51	St. John's Park	St. John's Park	C	-	5531346.2	634408	C186830	AKI118
JP-JP-06	0.025	2021/11/03	84	St. John's Park	St. John's Park	C	-	5531324.1	634374.2	C186830	AKI119
JP-JP-07	0.025	2021/11/03	47	St. John's Park	St. John's Park	C	-	5531271.6	634460.4	C186830	AKI120
JP-JP-08	0.025	2021/11/03	26	St. John's Park	St. John's Park	C	-	5531273.4	634486.8	C186830	AKI121
JP-JP-09	0.025	2021/11/03	75	St. John's Park	St. John's Park	C	-	5531268.1	634514.7	C186830	AKI122
JP-JP-10	0.025	2021/11/03	25	St. John's Park	St. John's Park	C	-	5531268.1	634546.6	C186830	AKI123
JP-JP-11	0.025	2021/11/03	42	St. John's Park	St. John's Park	C	-	5531281.8	634566.8	C186830	AKI124
JP-JP-12	0.025	2021/11/03	9.7	St. John's Park	St. John's Park	C	-	5531309.1	634585.7	C186830	AKI125
JP-JP-13	0.025	2021/11/03	10	St. John's Park	St. John's Park	C	-	5531320.7	634561.8	C186830	AKI126
JP-JP-14	0.025	2021/11/03	24	St. John's Park	St. John's Park	C	-	5531347.5	634572.6	C186830	AKI127
JP-JP-15	0.025	2021/11/03	340	St. John's Park	St. John's Park	C	-	5531380.1	634560.9	C186830	AKI128
JP-JP-16	0.025	2021/11/03	41	St. John's Park	St. John's Park	C	-	5531322.8	634521.2	C186830	AKI129
JP-JP-17	0.025	2021/11/03	30	St. John's Park	St. John's Park	C	-	5531298.7	634512.1	C186830	AKI130
JP-JP-17D (dup)	0.025	2021/11/03	34	St. John's Park	St. John's Park	C	-	5531298.7	634512.1	C186830	AKI131
JP-JP-18	0.025	2021/11/03	26	St. John's Park	St. John's Park	C	-	5531307.2	634486.1	C186830	AKI132
JP-JP-19	0.025	2021/11/03	26	St. John's Park	St. John's Park	C	-	5531334.5	634466.6	C186830	AKI133
SY-AS-01	0.025	2021/10/26	9.5	Stock Yards	Archwood school (K-8)	S	LR	5526403.7	636952.9	C182827	AJH022
SY-AS-02	0.025	2021/10/26	25	Stock Yards	Archwood school (K-8)	S	LR	5526402.9	636911.1	C182827	AJH023
SY-AS-03	0.025	2021/10/26	26	Stock Yards	Archwood school (K-8)	S	LR	5526432.2	636898.2	C182827	AJH024
SY-AS-04	0.025	2021/10/26	16	Stock Yards	Archwood school (K-8)	S	LR	5526436.1	636940.8	C182827	AJH025
SY-AS-05	0.025	2021/10/26	16	Stock Yards	Archwood school (K-8)	S	LR	5526465.8	636927.1	C182827	AJH026
SY-AS-06	0.025	2021/10/26	42	Stock Yards	Archwood school (K-8)	S	LR	5526461.5	636888.8	C182827	AJH027

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CRITERIA^a			140								
CRITERIA^b			100-210								
SY-AS-07	0.025	2021/10/26	14	Stock Yards	Archwood school (K-8)	S	LR	5526495.1	636877.1	C182827	AJH028
SY-AS-08	0.025	2021/10/26	12	Stock Yards	Archwood school (K-8)	S	LR	5526496.7	636917.7	C182827	AJH029
SY-AS-09	0.025	2021/10/26	24	Stock Yards	Archwood school (K-8)	S	LR	5526519.4	636909.9	C182827	AJH030
SY-AS-10	0.025	2021/10/26	54	Stock Yards	Archwood school (K-8)	S	LR	5526562.7	636848.5	C182827	AJH031
SY-AS-11	0.025	2021/10/26	14	Stock Yards	Archwood school (K-8)	S	LR	5526622.5	636826.7	C182827	AJH032
SY-AS-12	0.025	2021/10/26	16	Stock Yards	Archwood school (K-8)	S	LR	5526482.4	636901.5	C182827	AJH033
SY-AS-13	0.025	2021/10/26	18	Stock Yards	Archwood school (K-8)	S	LR	5526425	636922.2	C182827	AJH034
TS-PT-01	0.025	2021/10/22	99	Tissot	Provencher-Tissot Riverbank	C	-	5528599.4	635805.6	C181837	AJB254
TS-PT-02	0.025	2021/10/22	38	Tissot	Provencher-Tissot Riverbank	C	-	5528662.6	635794.6	C181837	AJB255
TS-PT-03	0.025	2021/10/22	68	Tissot	Provencher-Tissot Riverbank	C	-	5528699.1	635791.7	C181837	AJB256
TP-AF-01	0.025	2021/11/09	12	Tyndall Park	Albina Fuga Park	C	-	5533838.4	628886.2	C188315	AKT056
TP-AF-02	0.025	2021/11/09	25	Tyndall Park	Albina Fuga Park	C	-	5533850.3	628856	C188315	AKT057
TP-AF-03	0.025	2021/11/09	10	Tyndall Park	Albina Fuga Park	C	-	5533863.5	628868.9	C188315	AKT058
TP-AF-04	0.025	2021/11/09	9.9	Tyndall Park	Albina Fuga Park	C	-	5533857.4	628882.5	C188315	AKT059
TP-AF-05	0.025	2021/11/09	14	Tyndall Park	Albina Fuga Park	C	-	5533862.4	628902.6	C188315	AKT060
TP-AF-06	0.025	2021/11/09	17	Tyndall Park	Albina Fuga Park	C	-	5533878.5	628895	C188315	AKT061
TP-AF-07	0.025	2021/11/09	13	Tyndall Park	Albina Fuga Park	C	-	5533882.5	628872.8	C188315	AKT062
TP-AF-08	0.025	2021/11/09	16	Tyndall Park	Albina Fuga Park	C	-	5533902.9	628869.9	C188315	AKT063
TP-AF-09	0.025	2021/11/09	12	Tyndall Park	Albina Fuga Park	C	-	5533896.6	628908.2	C188315	AKT064
TP-EP-01	0.025	2021/11/09	14	Tyndall Park	Egesz Park	C	-	5533559.9	627615.6	C188315	AKT065
TP-EP-02	0.025	2021/11/09	17	Tyndall Park	Egesz Park	C	-	5533557.6	627680.4	C188315	AKT066
TP-EP-03	0.025	2021/11/09	25	Tyndall Park	Egesz Park	C	-	5533600.5	627695.5	C188315	AKT067
TP-EP-04	0.025	2021/11/09	11	Tyndall Park	Egesz Park	C	-	5533605.5	627664.5	C188315	AKT068
TP-EP-04D (dup)	0.025	2021/11/09	13	Tyndall Park	Egesz Park	C	-	5533605.5	627664.5	C188315	AKT069
TP-EP-05	0.025	2021/11/09	11	Tyndall Park	Egesz Park	C	-	5533603	627626.9	C188315	AKT070
TP-EP-06	0.025	2021/11/09	12	Tyndall Park	Egesz Park	C	-	5533637.9	627626.9	C188315	AKT071
TP-EP-07	0.025	2021/11/09	10	Tyndall Park	Egesz Park	C	-	5533638.3	627662.2	C188315	AKT072
TP-EP-08	0.025	2021/11/09	14	Tyndall Park	Egesz Park	C	-	5533672	627666.2	C188315	AKT073
TP-EP-09	0.025	2021/11/09	12	Tyndall Park	Egesz Park	C	-	5533672.7	627614.5	C188315	AKT074
TP-FW-01	0.025	2021/11/08	17	Tyndall Park	Fairgrove Window Park	C	-	5533850.1	628547.7	C188379	AKT644
TP-FW-02	0.025	2021/11/08	14	Tyndall Park	Fairgrove Window Park	C	-	5533870.3	628580	C188379	AKT645
TP-FW-03	0.025	2021/11/08	22	Tyndall Park	Fairgrove Window Park	C	-	5533882.9	628555.8	C188379	AKT646
TP-FW-04	0.025	2021/11/08	13	Tyndall Park	Fairgrove Window Park	C	-	5533883.2	628606.5	C188379	AKT647
TP-FW-05	0.025	2021/11/08	13	Tyndall Park	Fairgrove Window Park	C	-	5533905.7	628584	C188379	AKT648
TP-FW-05D (dup)	0.025	2021/11/08	12	Tyndall Park	Fairgrove Window Park	C	-	5533905.7	628584	C188379	AKT649
TP-FW-06	0.025	2021/11/08	12	Tyndall Park	Fairgrove Window Park	C	-	5533914.1	628613.9	C188379	AKT650
TP-FW-07	0.025	2021/11/08	2.6	Tyndall Park	Fairgrove Window Park	C	-	5533939.3	628627.4	C188379	AKT651
TP-FW-08	0.025	2021/11/08	14	Tyndall Park	Fairgrove Window Park	C	-	5533942.5	628578.8	C188379	AKT652
TP-FW-09	0.025	2021/11/08	12	Tyndall Park	Fairgrove Window Park	C	-	5533923.3	628561.4	C188379	AKT653
TP-FP-01	0.025	2021/11/09	23	Tyndall Park	Finestone Park	C	-	5533107.6	628465.5	C188315	AKT075
TP-FP-02	0.025	2021/11/09	20	Tyndall Park	Finestone Park	C	-	5533113.9	628431.8	C188315	AKT076
TP-FP-03	0.025	2021/11/09	10	Tyndall Park	Finestone Park	C	-	5533122	628444.3	C188315	AKT077
TP-FP-04	0.025	2021/11/09	14	Tyndall Park	Finestone Park	C	-	5533121.5	628418	C188315	AKT078
TP-FP-05	0.025	2021/11/09	19	Tyndall Park	Finestone Park	C	-	5533115.6	628394.4	C188315	AKT079
TP-FP-05D (dup)	0.025	2021/11/09	19	Tyndall Park	Finestone Park	C	-	5533115.6	628394.4	C188315	AKT080
TP-FP-06	0.025	2021/11/09	17	Tyndall Park	Finestone Park	C	-	5533148.2	628398	C188315	AKT081
TP-FP-07	0.025	2021/11/09	19	Tyndall Park	Finestone Park	C	-	5533156.6	628430.6	C188315	AKT082
TP-FP-08	0.025	2021/11/09	9.9	Tyndall Park	Finestone Park	C	-	5533138	628436.8	C188315	AKT083
TP-FP-09	0.025	2021/11/09	20	Tyndall Park	Finestone Park	C	-	5533155	628460.8	C188315	AKT084

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsix Corp., Nov. 29, 2019.

c - WSD: Winnipeg School Division, DS: Division Scolaire Franco-Manitobaine, LR: Louis Riel School Division, SJ: St. James Assiniboia School Division, IS: independent school.

d - GPS coordinates are in NAD 83/Zone 14.

**- Not applicable

(dup) - Duplicate

mbgs - metres below ground surface

(re-run) - Sample re-run by laboratory on original soil

C [in use by S] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsic criterion

BOLD - Exceeds applicable CCME criterion

Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
TP-GC-01	0.025	2021/11/08	32	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532729.5	629043	C188379	AKT615
TP-GC-02	0.025	2021/11/08	36	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532731.9	629032.4	C188379	AKT616
TP-GC-03	0.025	2021/11/08	49	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532741.2	629024.4	C188379	AKT617
TP-GC-04	0.025	2021/11/08	34	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532746.7	629033.1	C188379	AKT618
TP-GC-05	0.025	2021/11/08	42	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532740.1	629038.2	C188379	AKT619
TP-GC-06	0.025	2021/11/08	32	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532737.5	629048.5	C188379	AKT620
TP-GC-07	0.025	2021/11/08	68	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532746.8	629056.4	C188379	AKT621
TP-GC-08	0.025	2021/11/08	14	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532750.4	629045	C188379	AKT622
TP-GC-09	0.025	2021/11/08	46	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532758.3	629031.2	C188379	AKT623
TP-GC-10	0.025	2021/11/08	20	Tyndall Park	Gainsborough Cove Tot Lot	C	-	5532759.3	629053.9	C188379	AKT624
TP-GG-01	0.025	2021/11/08	26	Tyndall Park	Garden Grove Park	C	-	5533424.8	627934	C188379	AKT634
TP-GG-02	0.025	2021/11/08	23	Tyndall Park	Garden Grove Park	C	-	5533475.7	627875.3	C188379	AKT635
TP-GG-03	0.025	2021/11/08	20	Tyndall Park	Garden Grove Park	C	-	5533473	627935.9	C188379	AKT636
TP-GG-04	0.025	2021/11/08	11	Tyndall Park	Garden Grove Park	C	-	5533503.2	627920.7	C188379	AKT637
TP-GG-05	0.025	2021/11/08	6.8	Tyndall Park	Garden Grove Park	C	-	5533491.1	627985	C188379	AKT638
TP-GG-06	0.025	2021/11/08	24	Tyndall Park	Garden Grove Park	C	-	5533533.1	627991.8	C188379	AKT639
TP-GG-07	0.025	2021/11/08	21	Tyndall Park	Garden Grove Park	C	-	5533533.9	627965.2	C188379	AKT640
TP-GG-08	0.025	2021/11/08	13	Tyndall Park	Garden Grove Park	C	-	5533551.3	627946.7	C188379	AKT641
TP-GG-09	0.025	2021/11/08	10	Tyndall Park	Garden Grove Park	C	-	5533567.9	627963.6	C188379	AKT642
TP-GG-10	0.025	2021/11/08	18	Tyndall Park	Garden Grove Park	C	-	5533556.6	627982.4	C188379	AKT643
TP-GS-01	0.025	2021/11/08	12	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533334.9	628013.8	C188379	AKT658
TP-GS-02	0.025	2021/11/08	11	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533360.9	628030.3	C188379	AKT659
TP-GS-03	0.025	2021/11/08	7.1	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533368.9	628002.9	C188379	AKT660
TP-GS-04	0.025	2021/11/08	9.4	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533373.4	627969.4	C188379	AKT661
TP-GS-05	0.025	2021/11/08	11	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533394.1	627949	C188379	AKT662
TP-GS-06	0.025	2021/11/08	130	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533408.2	627960.7	C188379	AKT663
TP-GS-07	0.025	2021/11/08	45	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533399.4	627994.7	C188379	AKT664
TP-GS-08	0.025	2021/11/08	27	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533429.7	628111.8	C188379	AKT665
TP-GS-09	0.025	2021/11/08	30	Tyndall Park	Garden Grove school (N-6)	S	WSD	5533456.8	628084.7	C188379	AKT666
TP-KP-01	0.025	2021/11/09	23	Tyndall Park	Kinver Park	C	-	5533766.1	629318.9	C188315	AKT045
TP-KP-02	0.025	2021/11/09	17	Tyndall Park	Kinver Park	C	-	5533757.7	629239.9	C188315	AKT046
TP-KP-03	0.025	2021/11/09	13	Tyndall Park	Kinver Park	C	-	5533771.6	629262.7	C188315	AKT047
TP-KP-04	0.025	2021/11/09	16	Tyndall Park	Kinver Park	C	-	5533772.7	629214.2	C188315	AKT048
TP-KP-05	0.025	2021/11/09	17	Tyndall Park	Kinver Park	C	-	5533785.6	629239.7	C188315	AKT049
TP-KP-06	0.025	2021/11/09	3.1	Tyndall Park	Kinver Park	C	-	5533815	629302	C188315	AKT050
TP-KP-07	0.025	2021/11/09	16	Tyndall Park	Kinver Park	C	-	5533849.5	629244.3	C188315	AKT051
TP-KP-08	0.025	2021/11/09	17	Tyndall Park	Kinver Park	C	-	5533849.9	629347.2	C188315	AKT052
TP-KP-09	0.025	2021/11/09	7.8	Tyndall Park	Kinver Park	C	-	5533878.9	629301.3	C188315	AKT053
TP-KP-10	0.025	2021/11/09	35	Tyndall Park	Kinver Park	C	-	5533926	629301.3	C188315	AKT054
TP-KP-11	0.025	2021/11/09	9	Tyndall Park	Kinver Park	C	-	5533926.7	629258.3	C188315	AKT055
TP-PR-01	0.025	2021/11/08	21	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533793.5	627434.3	C188379	AKT667
TP-PR-02	0.025	2021/11/08	16	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533801.5	627462.5	C188379	AKT668
TP-PR-03	0.025	2021/11/08	14	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533801.8	627485.5	C188379	AKT669
TP-PR-04	0.025	2021/11/08	15	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533824.3	627461	C188379	AKT670
TP-PR-05	0.025	2021/11/08	14	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533843.7	627434.3	C188379	AKT671
TP-PR-06	0.025	2021/11/08	16	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533846.7	627482.2	C188379	AKT672
TP-PR-07	0.025	2021/11/08	11	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533867.5	627462.5	C188379	AKT673
TP-PR-07D (dup)	0.025	2021/11/08	15	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533867.5	627462.5	C188379	AKT674
TP-PR-08	0.025	2021/11/08	16	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533882.7	627438.3	C188379	AKT675
TP-PR-09	0.025	2021/11/08	18	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533886.7	627493.7	C188379	AKT676
TP-PR-10	0.025	2021/11/08	21	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533890.2	627534.7	C188379	AKT677

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsix Corp., Nov. 29, 2019.

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d - GPS coordinates are in NAD 83/Zone 14.

"-" - Not applicable

(dup) - Duplicate

mbgs - metres below ground surface

(re-run) - Sample re-run by laboratory on original soil

C [in use by S] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsic criterion

BOLD - Exceeds applicable CCME criterion

Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
TP-PR-11	0.025	2021/11/08	18	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533860.2	627528.7	C188379	AKT678
TP-PR-12	0.025	2021/11/08	69	Tyndall Park	Prairie Rose school (N-6)	S	WSD	5533828	627533.2	C188379	AKT679
TP-SK-01	0.025	2021/11/08	13	Tyndall Park	Stanley Knowles school (N-8)	S	WSD	5534058.8	628544.5	C188379	AKT654
TP-SK-02	0.025	2021/11/08	11	Tyndall Park	Stanley Knowles school (N-8)	S	WSD	5534094.8	628544.2	C188379	AKT655
TP-SK-03	0.025	2021/11/08	12	Tyndall Park	Stanley Knowles school (N-8)	S	WSD	5534089.1	628569.1	C188379	AKT656
TP-SK-04	0.025	2021/11/08	15	Tyndall Park	Stanley Knowles school (N-8)	S	WSD	5534128	628545.7	C188379	AKT657
TP-TP-01	0.025	2021/11/09	21	Tyndall Park	Tyndall Park C.C	C	-	5532992.3	628792.1	C188315	AKT085
TP-TP-02	0.025	2021/11/09	22	Tyndall Park	Tyndall Park C.C	C	-	5533037.8	628750.2	C188315	AKT086
TP-TP-03	0.025	2021/11/09	20	Tyndall Park	Tyndall Park C.C	C	-	5533041.8	628848.6	C188315	AKT087
TP-TP-04	0.025	2021/11/09	17	Tyndall Park	Tyndall Park C.C	C	-	5533050.6	628900.5	C188315	AKT088
TP-TP-05	0.025	2021/11/09	4.6	Tyndall Park	Tyndall Park C.C	C	-	5533084.4	628892.9	C188315	AKT089
TP-TP-06	0.025	2021/11/09	12	Tyndall Park	Tyndall Park C.C	C	-	5533064.6	628966.9	C188315	AKT090
TP-TP-07	0.025	2021/11/09	10	Tyndall Park	Tyndall Park C.C	C	-	5533068	629013.5	C188315	AKT091
TP-TP-08	0.025	2021/11/09	6.5	Tyndall Park	Tyndall Park C.C	C	-	5533160.1	629004.1	C188315	AKT092
TP-TP-09	0.025	2021/11/09	4.1	Tyndall Park	Tyndall Park C.C	C	-	5533150.8	628927.3	C188315	AKT093
TP-TP-10	0.025	2021/11/09	2.7	Tyndall Park	Tyndall Park C.C	C	-	5533150.8	628884.2	C188315	AKT094
TP-TP-11	0.025	2021/11/09	15	Tyndall Park	Tyndall Park C.C	C	-	5533193.9	628856.2	C188315	AKT095
TP-TP-12	0.025	2021/11/09	20	Tyndall Park	Tyndall Park C.C	C	-	5533224.1	628853.3	C188315	AKT096
TP-TP-13	0.025	2021/11/09	17	Tyndall Park	Tyndall Park C.C	C	-	5533211.9	628920.3	C188315	AKT097
TP-TP-14	0.025	2021/11/09	4	Tyndall Park	Tyndall Park C.C	C	-	5533223	629007.6	C188315	AKT098
TP-TP-15	0.025	2021/11/09	24	Tyndall Park	Tyndall Park C.C	C	-	5533258.5	628923.8	C188315	AKT099
TP-TP-16	0.025	2021/11/09	22	Tyndall Park	Tyndall Park C.C	C	-	5533299.9	629005.9	C188315	AKT100
TP-TP-16D (dup)	0.025	2021/11/09	18	Tyndall Park	Tyndall Park C.C	C	-	5533299.9	629005.9	C188315	AKT101
TP-TP-17	0.025	2021/11/09	21	Tyndall Park	Tyndall Park C.C	C	-	5533305.1	628877.7	C188315	AKT102
TP-TP-18	0.025	2021/11/09	15	Tyndall Park	Tyndall Park C.C	C	-	5533309.1	628842.7	C188315	AKT103
TP-TP-19	0.025	2021/11/09	12	Tyndall Park	Tyndall Park C.C	C	-	5533244	628844.2	C188315	AKT104
TP-TS-01	0.025	2021/11/08	20	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533199.3	628708.9	C188379	AKT625
TP-TS-02	0.025	2021/11/08	20	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533146.3	628701.6	C188379	AKT626
TP-TS-02D (dup)	0.025	2021/11/08	21	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533146.3	628701.6	C188379	AKT627
TP-TS-03	0.025	2021/11/08	14	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533085.3	628744.7	C188379	AKT628
TP-TS-04	0.025	2021/11/08	4.3	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533109.5	628845.6	C188379	AKT629
TP-TS-05	0.025	2021/11/08	24	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533165.2	628840.8	C188379	AKT630
TP-TS-06	0.025	2021/11/08	17	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533189.7	628832.6	C188379	AKT631
TP-TS-07	0.025	2021/11/08	18	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533222.4	628838	C188379	AKT632
TP-TS-08	0.025	2021/11/08	22	Tyndall Park	Tyndall Park school (N-6)	S	WSD	5533222.6	628803.1	C188379	AKT633
TP-WP-01	0.025	2021/11/08	32	Tyndall Park	Walsall Park	C	-	5532794.2	628360.1	C188379	AKT603
TP-WP-02	0.025	2021/11/08	71	Tyndall Park	Walsall Park	C	-	5532783.3	628338	C188379	AKT604
TP-WP-03	0.025	2021/11/08	59	Tyndall Park	Walsall Park	C	-	5532786.2	628315.2	C188379	AKT605
TP-WP-04	0.025	2021/11/08	120	Tyndall Park	Walsall Park	C	-	5532801.1	628287.1	C188379	AKT606
TP-WP-05	0.025	2021/11/08	77	Tyndall Park	Walsall Park	C	-	5532812.8	628278	C188379	AKT607
TP-WP-06	0.025	2021/11/08	66	Tyndall Park	Walsall Park	C	-	5532835.2	628279.6	C188379	AKT608
TP-WP-07	0.025	2021/11/08	89	Tyndall Park	Walsall Park	C	-	5532813.9	628303.5	C188379	AKT609
TP-WP-07D (dup)	0.025	2021/11/08	73	Tyndall Park	Walsall Park	C	-	5532813.9	628303.5	C188379	AKT610
TP-WP-08	0.025	2021/11/08	60	Tyndall Park	Walsall Park	C	-	5532806.6	628327	C188379	AKT611
TP-WP-09	0.025	2021/11/08	57	Tyndall Park	Walsall Park	C	-	5532814.7	628343.2	C188379	AKT612
TP-WP-10	0.025	2021/11/08	30	Tyndall Park	Walsall Park	C	-	5532836	628341.6	C188379	AKT613
TP-WP-11	0.025	2021/11/08	58	Tyndall Park	Walsall Park	C	-	5532828.6	628369.6	C188379	AKT614
WT-CL-01	0.025	2021/11/16	130	Weston	Campion Tot Lot	C	-	5530686.4	630121.2	C193737	ALW323
WT-CL-02	0.025	2021/11/16	79	Weston	Campion Tot Lot	C	-	5530700.5	630116	C193737	ALW324
WT-CL-03	0.025	2021/11/16	78	Weston	Campion Tot Lot	C	-	5530708	630128.6	C193737	ALW325

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m) Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140							
CRITERIA^b			100-210							
WT-CL-04	0.025	2021/11/16	68	Weston	Campion Tot Lot	C	-	5530715.3 630109.3	C193737	ALW326
WT-CL-05	0.025	2021/11/16	55	Weston	Campion Tot Lot	C	-	5530726.6 630087.5	C193737	ALW327
WT-CL-06	0.025	2021/11/16	67	Weston	Campion Tot Lot	C	-	5530725.9 630073.6	C193737	ALW328
WT-CL-07	0.025	2021/11/16	49	Weston	Campion Tot Lot	C	-	5530736.3 630064.1	C193737	ALW329
WT-CL-08	0.025	2021/11/16	35	Weston	Campion Tot Lot	C	-	5530731.1 630053.3	C193737	ALW330
WT-CL-09	0.025	2021/11/16	19	Weston	Campion Tot Lot	C	-	5530717.5 630054.5	C193737	ALW331
WT-CL-10	0.025	2021/11/16	18	Weston	Campion Tot Lot	C	-	5530697.6 630095.1	C193737	ALW332
WT-CR-01	0.025	2021/11/16	15	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530832.9 629936.2	C193737	ALW333
WT-CR-02	0.025	2021/11/16	140	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530847.8 629902	C193737	ALW334
WT-CR-03	0.025	2021/11/16	35	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530859.5 629889.1	C193737	ALW335
WT-CR-03D (dup)	0.025	2021/11/16	52	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530859.5 629889.1	C193737	ALW336
WT-CR-04	0.025	2021/11/16	120	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530855.6 629873	C193737	ALW337
WT-CR-05	0.025	2021/11/16	34	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530883.3 629879.7	C193737	ALW338
WT-CR-06	0.025	2021/11/16	72	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530876.9 629896.5	C193737	ALW339
WT-CR-07	0.025	2021/11/16	74	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530891.8 629907.8	C193737	ALW340
WT-CR-08	0.025	2021/11/16	71	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530887.6 629933.7	C193737	ALW341
WT-CR-09	0.025	2021/11/16	140	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530875.3 629959.4	C193737	ALW342
WT-CR-10	0.025	2021/11/16	160	Weston	Cecil Rhodes school (N-9) and Adolescent Parent Centre (9-12)	S	WSD	5530862.8 629929.2	C193737	ALW343
WT-PP-01	0.025	2021/11/16	50	Weston	Pascoe Playground	C	-	5530684.1 630408.8	C193737	ALW344
WT-PP-02	0.025	2021/11/16	18	Weston	Pascoe Playground	C	-	5530713.6 630423.9	C193737	ALW345
WT-PP-03	0.025	2021/11/16	24	Weston	Pascoe Playground	C	-	5530718.5 630401.6	C193737	ALW346
WT-PP-04	0.025	2021/11/16	86	Weston	Pascoe Playground	C	-	5530768.1 630445.1	C193737	ALW347
WT-PP-05	0.025	2021/11/16	84	Weston	Pascoe Playground	C	-	5530789.2 630411.4	C193737	ALW348
WT-PP-06	0.025	2021/11/16	100	Weston	Pascoe Playground	C	-	5530825.5 630459.4	C193737	ALW349
WT-PP-07	0.025	2021/11/16	88	Weston	Pascoe Playground	C	-	5530829.7 630407.6	C193737	ALW350
WT-PP-08	0.025	2021/11/16	75	Weston	Pascoe Playground	C	-	5530867.5 630441.7	C193737	ALW351
WT-PP-09	0.025	2021/11/16	32	Weston	Pascoe Playground	C	-	5530892.1 630401.2	C193737	ALW352
WT-PP-10	0.025	2021/11/16	170	Weston	Pascoe Playground	C	-	5530889.4 630481	C193737	ALW353
WT-SK-01	0.025	2021/11/16	45	Weston	Stanley Knowles Park	C	-	5530849.9 630987.2	C193737	ALW354
WT-SK-02	0.025	2021/11/16	96	Weston	Stanley Knowles Park	C	-	5530876.3 630967.8	C193737	ALW355
WT-SK-03	0.025	2021/11/16	38	Weston	Stanley Knowles Park	C	-	5530888.1 630992	C193737	ALW356
WT-SK-04	0.025	2021/11/16	28	Weston	Stanley Knowles Park	C	-	5530913.1 630995.9	C193737	ALW357
WT-SK-05	0.025	2021/11/16	15	Weston	Stanley Knowles Park	C	-	5530917 630964.2	C193737	ALW358
WT-SK-06	0.025	2021/11/16	70	Weston	Stanley Knowles Park	C	-	5530888.9 630941.4	C193737	ALW359
WT-SK-07	0.025	2021/11/16	110	Weston	Stanley Knowles Park	C	-	5530876.8 630896.5	C193737	ALW360
WT-SK-08	0.025	2021/11/16	91	Weston	Stanley Knowles Park	C	-	5530909.4 630895.7	C193737	ALW361
WT-SK-09	0.025	2021/11/16	110	Weston	Stanley Knowles Park	C	-	5530895.6 630855.8	C193737	ALW362
WT-SK-10	0.025	2021/11/16	160	Weston	Stanley Knowles Park	C	-	5530917.6 630804.7	C193737	ALW363
WT-WM-01	0.025	2021/11/16	3400	Weston	Weston Memorial C.C	C	-	5531458.7 629747.2	C189415	ALA692
WT-WM-02	0.025	2021/11/16	15	Weston	Weston Memorial C.C	C	-	5531492.5 629813.2	C189415	ALA693
WT-WM-03	0.025	2021/11/16	140	Weston	Weston Memorial C.C	C	-	5531500.3 629747.2	C189415	ALA694
WT-WM-03D (dup)	0.025	2021/11/16	130	Weston	Weston Memorial C.C	C	-	5531500.3 629747.2	C189415	ALA695
WT-WM-04	0.025	2021/11/16	55	Weston	Weston Memorial C.C	C	-	5531539.4 629844	C189415	ALA696
WT-WM-05	0.025	2021/11/16	13	Weston	Weston Memorial C.C	C	-	5531603.2 629792.8	C189415	ALA697
WT-WM-06	0.025	2021/11/16	120	Weston	Weston Memorial C.C	C	-	5531594.1 629715.1	C189415	ALA698
WT-WM-07	0.025	2021/11/16	130	Weston	Weston Memorial C.C	C	-	5531532.4 629689.5	C189415	ALA699
WT-WM-08	0.025	2021/11/16	59	Weston	Weston Memorial C.C	C	-	5531566.7 629643.9	C189415	ALA700
WT-WM-09	0.025	2021/11/16	16	Weston	Weston Memorial C.C	C	-	5531628.4 629665.2	C189415	ALA701
WT-WM-10	0.025	2021/11/16	67	Weston	Weston Memorial C.C	C	-	5531626.2 629626.1	C189415	ALA702
WT-WP-01	0.025	2021/11/16	27	Weston	Weston Park	C	-	5531319.3 629935	C189415	ALA703

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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
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WT-WP-02	0.025	2021/11/16	200	Weston	Weston Park	C	-	5531339.5	629890.9	C189415	ALA704
WT-WP-03	0.025	2021/11/16	130	Weston	Weston Park	C	-	5531364.3	629898.2	C189415	ALA705
WT-WP-04	0.025	2021/11/16	52	Weston	Weston Park	C	-	5531355.2	629923.4	C189415	ALA706
WT-WP-04D (dup)	0.025	2021/11/16	45	Weston	Weston Park	C	-	5531355.2	629923.4	C189415	ALA707
WT-WP-05	0.025	2021/11/16	75	Weston	Weston Park	C	-	5531359.9	629945.6	C189415	ALA708
WT-WP-06	0.025	2021/11/16	110	Weston	Weston Park	C	-	5531362.6	629896.6	C189415	ALA709
WT-WP-07	0.025	2021/11/16	16	Weston	Weston Park	C	-	5531375.2	629963	C189415	ALA710
WT-WP-08	0.025	2021/11/16	21	Weston	Weston Park	C	-	5531391.9	629946.3	C189415	ALA711
WT-WP-09	0.025	2021/11/16	8.1	Weston	Weston Park	C	-	5531406.6	629977	C189415	ALA712
WT-WP-10	0.025	2021/11/16	26	Weston	Weston Park	C	-	5531417	629959.2	C189415	ALA713
WT-WP-11	0.025	2021/11/16	11	Weston	Weston Park	C	-	5531428.6	629933.4	C189415	ALA714
WW-AL-01	0.025	2021/11/03	58	William Whyte	Alfred Tot Lot	C	-	5531358.9	633121.3	C186830	AK1165
WW-AL-02	0.025	2021/11/03	80	William Whyte	Alfred Tot Lot	C	-	5531361	633114.7	C186830	AK1166
WW-AL-03	0.025	2021/11/03	36	William Whyte	Alfred Tot Lot	C	-	5531366.3	633108.1	C186830	AK1167
WW-AL-04	0.025	2021/11/03	120	William Whyte	Alfred Tot Lot	C	-	5531376.1	633111.4	C186830	AK1168
WW-AL-05	0.025	2021/11/03	19	William Whyte	Alfred Tot Lot	C	-	5531371	633115.7	C186830	AK1169
WW-AL-06	0.025	2021/11/03	78	William Whyte	Alfred Tot Lot	C	-	5531371.7	633126.6	C186830	AK1170
WW-AL-06D (dup)	0.025	2021/11/03	100	William Whyte	Alfred Tot Lot	C	-	5531371.7	633126.6	C186830	AK1171
WW-AL-07	0.025	2021/11/03	40	William Whyte	Alfred Tot Lot	C	-	5531382	633130.5	C186830	AK1172
WW-AL-08	0.025	2021/11/03	56	William Whyte	Alfred Tot Lot	C	-	5531385.2	633125.5	C186830	AK1173
WW-AL-09	0.025	2021/11/03	320	William Whyte	Alfred Tot Lot	C	-	5531388.4	633117.3	C186830	AK1174
WW-PP-01	0.025	2021/11/03	21	William Whyte	Pritchard Playground	C	-	5530712.8	633827.3	C186830	AK1134
WW-PP-02	0.025	2021/11/03	51	William Whyte	Pritchard Playground	C	-	5530717.6	633814.4	C186830	AK1135
WW-PP-03	0.025	2021/11/03	22	William Whyte	Pritchard Playground	C	-	5530734.9	633838.4	C186830	AK1136
WW-PP-04	0.025	2021/11/03	61	William Whyte	Pritchard Playground	C	-	5530768.9	633855.1	C186830	AK1137
WW-PP-05	0.025	2021/11/03	50	William Whyte	Pritchard Playground	C	-	5530775.7	633832.3	C186830	AK1138
WW-PP-06	0.025	2021/11/03	36	William Whyte	Pritchard Playground	C	-	5530784.5	633818.8	C186830	AK1139
WW-PP-07	0.025	2021/11/03	7.7	William Whyte	Pritchard Playground	C	-	5530769.5	633802.1	C186830	AK1140
WW-PP-08	0.025	2021/11/03	170	William Whyte	Pritchard Playground	C	-	5530781.1	633796.4	C186830	AK1141
WW-PP-09	0.025	2021/11/03	230	William Whyte	Pritchard Playground	C	-	5530795.9	633792.6	C186830	AK1142
WW-PP-10	0.025	2021/11/03	160	William Whyte	Pritchard Playground	C	-	5530780.8	633780.7	C186830	AK1143
WW-RP-01	0.025	2021/11/03	45	William Whyte	Rejoice Fun Park	C	-	5531378.1	633386.3	C186830	AK1144
WW-RP-02	0.025	2021/11/03	31	William Whyte	Rejoice Fun Park	C	-	5531380.8	633378.4	C186830	AK1145
WW-RP-03	0.025	2021/11/03	53	William Whyte	Rejoice Fun Park	C	-	5531386.5	633370.7	C186830	AK1146
WW-RP-04	0.025	2021/11/03	110	William Whyte	Rejoice Fun Park	C	-	5531393.8	633374	C186830	AK1147
WW-RP-05	0.025	2021/11/03	190	William Whyte	Rejoice Fun Park	C	-	5531401.7	633378.2	C186830	AK1148
WW-RP-06	0.025	2021/11/03	150	William Whyte	Rejoice Fun Park	C	-	5531402.4	633386.7	C186830	AK1149
WW-RP-07	0.025	2021/11/03	72	William Whyte	Rejoice Fun Park	C	-	5531399.5	633393.5	C186830	AK1150
WW-RP-08	0.025	2021/11/03	250	William Whyte	Rejoice Fun Park	C	-	5531408	633399.7	C186830	AK1151
WW-RP-09	0.025	2021/11/03	430	William Whyte	Rejoice Fun Park	C	-	5531410.5	633391.5	C186830	AK1152
WW-RP-10	0.025	2021/11/03	75	William Whyte	Rejoice Fun Park	C	-	5531412	633382.9	C186830	AK1153
WW-SC-01	0.025	2021/11/03	36	William Whyte	Strathcona school (N-6)	S	WSD	5531383.1	633024	C186830	AK1154
WW-SC-02	0.025	2021/11/03	26	William Whyte	Strathcona school (N-6)	S	WSD	5531390.9	633006.4	C186830	AK1155
WW-SC-03	0.025	2021/11/03	65	William Whyte	Strathcona school (N-6)	S	WSD	5531398.9	632982.3	C186830	AK1156
WW-SC-04	0.025	2021/11/03	20	William Whyte	Strathcona school (N-6)	S	WSD	5531408.7	632959.5	C186830	AK1157
WW-SC-05	0.025	2021/11/03	23	William Whyte	Strathcona school (N-6)	S	WSD	5531417.8	632991.7	C186830	AK1158
WW-SC-06	0.025	2021/11/03	6.7	William Whyte	Strathcona school (N-6)	S	WSD	5531412.5	633011.5	C186830	AK1159
WW-SC-07	0.025	2021/11/03	25	William Whyte	Strathcona school (N-6)	S	WSD	5531410.5	633029.4	C186830	AK1160
WW-SC-07D (dup)	0.025	2021/11/03	17	William Whyte	Strathcona school (N-6)	S	WSD	5531410.5	633029.4	C186830	AK1161
WW-SC-08	0.025	2021/11/03	23	William Whyte	Strathcona school (N-6)	S	WSD	5531430.6	633019.8	C186830	AK1162
WW-SC-09	0.025	2021/11/03	26	William Whyte	Strathcona school (N-6)	S	WSD	5531436.1	633000.6	C186830	AK1163

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WW-SC-10	0.025	2021/11/03	52	William Whyte	Strathcona school (N-6)	S	WSD	5531491	632890.2	C186830	AK1164	
WW-WW-01	0.025	2021/11/03	34	William Whyte	William Whyte school (N-8)	S	WSD	5531053.1	633306.5	C186830	AK1175	
WW-WW-02	0.025	2021/11/03	31	William Whyte	William Whyte school (N-8)	S	WSD	5531081	633331.4	C186830	AK1176	
WW-WW-03	0.025	2021/11/03	39	William Whyte	William Whyte school (N-8)	S	WSD	5531106.7	633344.2	C186830	AK1177	
WW-WW-04	0.025	2021/11/03	23	William Whyte	William Whyte school (N-8)	S	WSD	5531097.6	633222.4	C186830	AK1178	
WW-WW-05	0.025	2021/11/03	18	William Whyte	William Whyte school (N-8)	S	WSD	5531105.6	633206.1	C186830	AK1179	
WW-WW-06	0.025	2021/11/03	34	William Whyte	William Whyte school (N-8)	S	WSD	5531113.5	633220.9	C186830	AK1180	
WW-WW-07	0.025	2021/11/03	19	William Whyte	William Whyte school (N-8)	S	WSD	5531134.3	633218.4	C186830	AK1181	
WW-WW-08	0.025	2021/11/03	26	William Whyte	William Whyte school (N-8)	S	WSD	5531157.3	633229.7	C186830	AK1182	
WP-AG-01	0.025	2021/10/27	43	Windsor Park	Agate Park	C	-	5525669.7	637302.3	C184218	AJP338	
WP-AG-02	0.025	2021/10/27	28	Windsor Park	Agate Park	C	-	5525682.9	637292.1	C184218	AJP339	
WP-AG-03	0.025	2021/10/27	32	Windsor Park	Agate Park	C	-	5525698.5	637293.5	C184218	AJP340	
WP-AG-04	0.025	2021/10/27	48	Windsor Park	Agate Park	C	-	5525717.7	637282.7	C184218	AJP341	
WP-AG-05	0.025	2021/10/27	29	Windsor Park	Agate Park	C	-	5525720.8	637268.5	C184218	AJP342	
WP-AG-06	0.025	2021/10/27	21	Windsor Park	Agate Park	C	-	5525710.4	637261.3	C184218	AJP343	
WP-AG-07	0.025	2021/10/27	10	Windsor Park	Agate Park	C	-	5525699.9	637276.6	C184218	AJP344	
WP-AG-08	0.025	2021/10/27	26	Windsor Park	Agate Park	C	-	5525696.6	637267.2	C184218	AJP345	
WP-AG-09	0.025	2021/10/27	17	Windsor Park	Agate Park	C	-	5525679.8	637273.1	C184218	AJP346	
WP-AG-10	0.025	2021/10/27	22	Windsor Park	Agate Park	C	-	5525663.3	637280.7	C184218	AJP347	
WP-AG-10D	(dup)	0.025	2021/10/27	22	Windsor Park	Agate Park	C	-	5525663.3	637280.7	C184218	AJP348
WP-AP-01	0.025	2021/10/27	35	Windsor Park	Applewood Park	C	-	5525688.8	637590	C184218	AJP328	
WP-AP-02	0.025	2021/10/27	25	Windsor Park	Applewood Park	C	-	5525697.9	637606.1	C184218	AJP329	
WP-AP-03	0.025	2021/10/27	39	Windsor Park	Applewood Park	C	-	5525707.8	637593.7	C184218	AJP330	
WP-AP-04	0.025	2021/10/27	22	Windsor Park	Applewood Park	C	-	5525711.7	637613.6	C184218	AJP331	
WP-AP-05	0.025	2021/10/27	38	Windsor Park	Applewood Park	C	-	5525726.1	637585.5	C184218	AJP332	
WP-AP-05D	(dup)	0.025	2021/10/27	35	Windsor Park	Applewood Park	C	-	5525726.1	637585.5	C184218	AJP333
WP-AP-06	0.025	2021/10/27	48	Windsor Park	Applewood Park	C	-	5525730.3	637611.5	C184218	AJP334	
WP-AP-07	0.025	2021/10/27	23	Windsor Park	Applewood Park	C	-	5525735.6	637599	C184218	AJP335	
WP-AP-08	0.025	2021/10/27	24	Windsor Park	Applewood Park	C	-	5525747.7	637619.3	C184218	AJP336	
WP-AP-09	0.025	2021/10/27	31	Windsor Park	Applewood Park	C	-	5525751.9	637587.7	C184218	AJP337	
WP-BP-01	0.025	2021/10/27	37	Windsor Park	Baudoux Place Park	C	-	5525863.1	638684.7	C184218	AJP284	
WP-BP-02	0.025	2021/10/27	43	Windsor Park	Baudoux Place Park	C	-	5525867.5	638697.2	C184218	AJP285	
WP-BP-03	0.025	2021/10/27	42	Windsor Park	Baudoux Place Park	C	-	5525872.3	638708.1	C184218	AJP286	
WP-BP-04	0.025	2021/10/27	4.6	Windsor Park	Baudoux Place Park	C	-	5525876.2	638700.2	C184218	AJP287	
WP-BP-05	0.025	2021/10/27	39	Windsor Park	Baudoux Place Park	C	-	5525882.8	638699	C184218	AJP288	
WP-BP-06	0.025	2021/10/27	13	Windsor Park	Baudoux Place Park	C	-	5525891.4	638690.8	C184218	AJP289	
WP-BP-07	0.025	2021/10/27	34	Windsor Park	Baudoux Place Park	C	-	5525880.3	638686.9	C184218	AJP290	
WP-BP-08	0.025	2021/10/27	34	Windsor Park	Baudoux Place Park	C	-	5525872.5	638686.4	C184218	AJP291	
WP-CP-01	0.025	2021/10/28	30	Windsor Park	Crestwood Park	C	-	5524508.8	637807.4	C184213	AJP243	
WP-CP-02	0.025	2021/10/28	17	Windsor Park	Crestwood Park	C	-	5524511.1	637780.7	C184213	AJP244	
WP-CP-03	0.025	2021/10/28	7.8	Windsor Park	Crestwood Park	C	-	5524525.8	637778.2	C184213	AJP245	
WP-CP-04	0.025	2021/10/28	24	Windsor Park	Crestwood Park	C	-	5524524.8	637794.1	C184213	AJP246	
WP-CP-05	0.025	2021/10/28	24	Windsor Park	Crestwood Park	C	-	5524538.3	637789.6	C184213	AJP247	
WP-CP-06	0.025	2021/10/28	21	Windsor Park	Crestwood Park	C	-	5524541	637771.8	C184213	AJP248	
WP-CP-07	0.025	2021/10/28	32	Windsor Park	Crestwood Park	C	-	5524554.2	637780.5	C184213	AJP249	
WP-CP-08	0.025	2021/10/28	36	Windsor Park	Crestwood Park	C	-	5524564.2	637764.9	C184213	AJP250	
WP-CP-09	0.025	2021/10/28	19	Windsor Park	Crestwood Park	C	-	5524586.2	637761.5	C184213	AJP251	
WP-DP-01	0.025	2021/10/28	17	Windsor Park	Durham Park	C	-	5524727.3	638348.7	C184213	AJP252	
WP-DP-02	0.025	2021/10/28	19	Windsor Park	Durham Park	C	-	5524707.5	638353.6	C184213	AJP253	

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID	
								Northing (m)	Easting (m)			
CRITERIA ^a			140									
CRITERIA ^b			100-210									
WP-DP-03	0.025	2021/10/28	7	Windsor Park	Durham Park	C	-	5524698.5	638374	C184213	AJP254	
WP-DP-04	0.025	2021/10/28	21	Windsor Park	Durham Park	C	-	5524692.9	638395.9	C184213	AJP255	
WP-DP-05	0.025	2021/10/28	20	Windsor Park	Durham Park	C	-	5524708	638404.5	C184213	AJP256	
WP-DP-06	0.025	2021/10/28	30	Windsor Park	Durham Park	C	-	5524721.5	638401.4	C184213	AJP257	
WP-DP-07	0.025	2021/10/28	21	Windsor Park	Durham Park	C	-	5524727.7	638375.6	C184213	AJP258	
WP-DP-07D	(dup)	0.025	2021/10/28	21	Windsor Park	Durham Park	C	-	5524727.7	638375.6	C184213	AJP259
WP-DP-08	0.025	2021/10/28	20	Windsor Park	Durham Park	C	-	5524727.3	638433.7	C184213	AJP260	
WP-DP-09	0.025	2021/10/28	21	Windsor Park	Durham Park	C	-	5524697.1	638434.4	C184213	AJP261	
WP-DP-10	0.025	2021/10/28	21	Windsor Park	Durham Park	C	-	5524714.5	638464.2	C184213	AJP262	
WP-DP-11	0.025	2021/10/28	20	Windsor Park	Durham Park	C	-	5524702.2	638492.5	C184213	AJP263	
WP-DP-12	0.025	2021/10/28	20	Windsor Park	Durham Park	C	-	5524728.7	638489	C184213	AJP264	
WP-EH-01	0.025	2021/10/28	30	Windsor Park	École Howden (K-6)	S	LR	5525737	638468.1	C184210	AJP188	
WP-EH-02	0.025	2021/10/28	25	Windsor Park	École Howden (K-6)	S	LR	5525737.7	638452.3	C184210	AJP189	
WP-EH-03	0.025	2021/10/28	45	Windsor Park	École Howden (K-6)	S	LR	5525755.7	638451.7	C184210	AJP190	
WP-EH-04	0.025	2021/10/28	25	Windsor Park	École Howden (K-6)	S	LR	5525758.2	638468.7	C184210	AJP191	
WP-EH-05	0.025	2021/10/28	21	Windsor Park	École Howden (K-6)	S	LR	5525775.8	638468.7	C184210	AJP192	
WP-EH-06	0.025	2021/10/28	46	Windsor Park	École Howden (K-6)	S	LR	5525773.8	638452.1	C184210	AJP193	
WP-EH-07	0.025	2021/10/28	14	Windsor Park	École Howden (K-6)	S	LR	5525804.5	638464.5	C184210	AJP194	
WP-EH-08	0.025	2021/10/28	23	Windsor Park	École Howden (K-6)	S	LR	5525804.5	638430.1	C184210	AJP195	
WP-EH-09	0.025	2021/10/28	21	Windsor Park	École Howden (K-6)	S	LR	5525826	638447.1	C184210	AJP196	
WP-EH-10	0.025	2021/10/28	17	Windsor Park	École Howden (K-6)	S	LR	5525846	638460.4	C184210	AJP197	
WP-EH-11	0.025	2021/10/28	20	Windsor Park	École Howden (K-6)	S	LR	5525845.9	638433.2	C184210	AJP198	
WP-EH-12	0.025	2021/10/28	18	Windsor Park	École Howden (K-6)	S	LR	5525813	638358.8	C184210	AJP199	
WP-EL-01	0.025	2021/10/29	8.4	Windsor Park	École Lacerte (K-8)	S	DS	5524853.6	638204.6	C185266	AJX021	
WP-EL-02	0.025	2021/10/29	7.8	Windsor Park	École Lacerte (K-8)	S	DS	5524865.9	638199.4	C185266	AJX022	
WP-EL-03	0.025	2021/10/29	9.9	Windsor Park	École Lacerte (K-8)	S	DS	5524881	638200.1	C185266	AJX023	
WP-EL-04	0.025	2021/10/29	9.8	Windsor Park	École Lacerte (K-8)	S	DS	5524874.6	638215.2	C185266	AJX024	
WP-EL-05	0.025	2021/10/29	8.9	Windsor Park	École Lacerte (K-8)	S	DS	5524882.1	638229.5	C185266	AJX025	
WP-EL-06	0.025	2021/10/29	10	Windsor Park	École Lacerte (K-8)	S	DS	5524864.7	638230.4	C185266	AJX026	
WP-FP-01	0.025	2021/10/28	12	Windsor Park	Frontenac Park	C	-	5524929.7	637902	C184213	AJP213	
WP-FP-02	0.025	2021/10/28	21	Windsor Park	Frontenac Park	C	-	5525052.2	637890.6	C184213	AJP214	
WP-FP-02D	(dup)	0.025	2021/10/28	21	Windsor Park	Frontenac Park	C	-	5525052.2	637890.6	C184213	AJP215
WP-FP-03	0.025	2021/10/28	22	Windsor Park	Frontenac Park	C	-	5525132.9	637911.1	C184213	AJP216	
WP-FP-04	0.025	2021/10/28	20	Windsor Park	Frontenac Park	C	-	5525202.4	637880.3	C184213	AJP217	
WP-FP-05	0.025	2021/10/28	20	Windsor Park	Frontenac Park	C	-	5525264.1	637893	C184213	AJP218	
WP-FP-06	0.025	2021/10/28	10	Windsor Park	Frontenac Park	C	-	5525317.8	637870.8	C184213	AJP219	
WP-FP-07	0.025	2021/10/28	9.6	Windsor Park	Frontenac Park	C	-	5525363.6	637864.9	C184213	AJP220	
WP-FP-08	0.025	2021/10/28	7.6	Windsor Park	Frontenac Park	C	-	5525388.2	637875.6	C184213	AJP221	
WP-FP-09	0.025	2021/10/28	19	Windsor Park	Frontenac Park	C	-	5525381.8	637840.8	C184213	AJP222	
WP-FP-10	0.025	2021/10/28	24	Windsor Park	Frontenac Park	C	-	5525408.7	637854.2	C184213	AJP223	
WP-FP-11	0.025	2021/10/28	19	Windsor Park	Frontenac Park	C	-	5525434.8	637881.1	C184213	AJP224	
WP-FP-12	0.025	2021/10/28	12	Windsor Park	Frontenac Park	C	-	5525439.5	637834.5	C184213	AJP225	
WP-FC-01	0.025	2021/10/28	13	Windsor Park	Frontenac school (K-8)	S	LR	5525471.9	637822.6	C184210	AJP200	
WP-FC-02	0.025	2021/10/28	13	Windsor Park	Frontenac school (K-8)	S	LR	5525472.7	637863.3	C184210	AJP201	
WP-FC-03	0.025	2021/10/28	14	Windsor Park	Frontenac school (K-8)	S	LR	5525477.2	637900.2	C184210	AJP202	
WP-FC-04	0.025	2021/10/28	15	Windsor Park	Frontenac school (K-8)	S	LR	5525507.6	637883	C184210	AJP203	
WP-FC-04D	(dup)	0.025	2021/10/28	15	Windsor Park	Frontenac school (K-8)	S	LR	5525507.6	637883	C184210	AJP204
WP-FC-05	0.025	2021/10/28	11	Windsor Park	Frontenac school (K-8)	S	LR	5525501.6	637840.3	C184210	AJP205	
WP-FC-06	0.025	2021/10/28	12	Windsor Park	Frontenac school (K-8)	S	LR	5525533.1	637812.8	C184210	AJP206	
WP-FC-07	0.025	2021/10/28	14	Windsor Park	Frontenac school (K-8)	S	LR	5525527.8	637861.5	C184210	AJP207	
WP-FC-08	0.025	2021/10/28	8.8	Windsor Park	Frontenac school (K-8)	S	LR	5525535.9	637889.5	C184210	AJP208	

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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
WP-FC-09	0.025	2021/10/28	29	Windsor Park	Frontenac school (K-8)	S	LR	5525623.1	637853.3	C184210	AJP209
WP-FC-10	0.025	2021/10/28	12	Windsor Park	Frontenac school (K-8)	S	LR	5525500.1	637823.1	C184210	AJP210
WP-VS-01	0.025	2021/10/29	40	Windsor Park	General Vanier school (K-8)	S	LR	5524802.6	639328.1	C185266	AJX039
WP-VS-02	0.025	2021/10/29	47	Windsor Park	General Vanier school (K-8)	S	LR	5524821.1	639340.3	C185266	AJX040
WP-VS-03	0.025	2021/10/29	49	Windsor Park	General Vanier school (K-8)	S	LR	5524833.9	639325.8	C185266	AJX041
WP-VS-04	0.025	2021/10/29	26	Windsor Park	General Vanier school (K-8)	S	LR	5524857.7	639307.5	C185266	AJX042
WP-VS-05	0.025	2021/10/29	28	Windsor Park	General Vanier school (K-8)	S	LR	5524860.3	639338.2	C185266	AJX043
WP-VS-06	0.025	2021/10/29	28	Windsor Park	General Vanier school (K-8)	S	LR	5524881.7	639324	C185266	AJX044
WP-VS-07	0.025	2021/10/29	19	Windsor Park	General Vanier school (K-8)	S	LR	5524908.9	639336.3	C185266	AJX045
WP-VS-08	0.025	2021/10/29	30	Windsor Park	General Vanier school (K-8)	S	LR	5524905.5	639239	C185266	AJX046
WP-VS-09	0.025	2021/10/29	28	Windsor Park	General Vanier school (K-8)	S	LR	5524841	639233.8	C185266	AJX047
WP-VS-09D (dup)	0.025	2021/10/29	27	Windsor Park	General Vanier school (K-8)	S	LR	5524841	639233.8	C185266	AJX048
WP-HP-01	0.025	2021/10/28	16	Windsor Park	Howden Park	C	-	5525871.9	638338.5	C184210	AJP179
WP-HP-02	0.025	2021/10/28	36	Windsor Park	Howden Park	C	-	5525866.2	638361.2	C184210	AJP180
WP-HP-03	0.025	2021/10/28	28	Windsor Park	Howden Park	C	-	5525877	638378.9	C184210	AJP181
WP-HP-04	0.025	2021/10/28	14	Windsor Park	Howden Park	C	-	5525878.5	638400.4	C184210	AJP182
WP-HP-05	0.025	2021/10/28	27	Windsor Park	Howden Park	C	-	5525868.1	638416.5	C184210	AJP183
WP-HP-06	0.025	2021/10/28	50	Windsor Park	Howden Park	C	-	5525878.4	638453.7	C184210	AJP184
WP-HP-07	0.025	2021/10/28	22	Windsor Park	Howden Park	C	-	5525924.3	638452.8	C184210	AJP185
WP-HP-08	0.025	2021/10/28	22	Windsor Park	Howden Park	C	-	5525907.5	638389.3	C184210	AJP186
WP-HP-09	0.025	2021/10/28	23	Windsor Park	Howden Park	C	-	5525921.7	638336.4	C184210	AJP187
WP-JP-01	0.025	2021/10/27	12	Windsor Park	Jubenville Park	C	-	5525339.6	638675.7	C184218	AJP305
WP-JP-02	0.025	2021/10/27	28	Windsor Park	Jubenville Park	C	-	5525343.8	638689.7	C184218	AJP306
WP-JP-03	0.025	2021/10/27	23	Windsor Park	Jubenville Park	C	-	5525349.6	638667	C184218	AJP307
WP-JP-04	0.025	2021/10/27	12	Windsor Park	Jubenville Park	C	-	5525352.5	638680.8	C184218	AJP308
WP-JP-05	0.025	2021/10/27	26	Windsor Park	Jubenville Park	C	-	5525358.5	638690.3	C184218	AJP309
WP-JP-06	0.025	2021/10/27	13	Windsor Park	Jubenville Park	C	-	5525366.6	638682.3	C184218	AJP310
WP-JP-07	0.025	2021/10/27	13	Windsor Park	Jubenville Park	C	-	5525375.2	638675.7	C184218	AJP311
WP-JP-08	0.025	2021/10/27	18	Windsor Park	Jubenville Park	C	-	5525364.6	638667.4	C184218	AJP312
WP-JP-09	0.025	2021/10/27	25	Windsor Park	Jubenville Park	C	-	5525334.1	638668	C184218	AJP313
WP-LP-01	0.025	2021/10/29	35	Windsor Park	Lomond Park	C	-	5524786	639319.6	C185266	AJX027
WP-LP-02	0.025	2021/10/29	14	Windsor Park	Lomond Park	C	-	5524784.4	639363.2	C185266	AJX028
WP-LP-03	0.025	2021/10/29	53	Windsor Park	Lomond Park	C	-	5524765.4	639384.7	C185266	AJX029
WP-LP-04	0.025	2021/10/29	25	Windsor Park	Lomond Park	C	-	5524761.4	639444.6	C185266	AJX030
WP-LP-05	0.025	2021/10/29	43	Windsor Park	Lomond Park	C	-	5524783.8	639490.1	C185266	AJX031
WP-LP-06	0.025	2021/10/29	28	Windsor Park	Lomond Park	C	-	5524785.4	639403.1	C185266	AJX032
WP-LP-07	0.025	2021/10/29	31	Windsor Park	Lomond Park	C	-	5524804.1	639382.6	C185266	AJX033
WP-LP-08	0.025	2021/10/29	6	Windsor Park	Lomond Park	C	-	5524815.6	639440.2	C185266	AJX034
WP-LP-09	0.025	2021/10/29	5.8	Windsor Park	Lomond Park	C	-	5524844.6	639405.9	C185266	AJX035
WP-LP-10	0.025	2021/10/29	29	Windsor Park	Lomond Park	C	-	5524887.9	639374.1	C185266	AJX036
WP-LP-11	0.025	2021/10/29	25	Windsor Park	Lomond Park	C	-	5524937.8	639346.3	C185266	AJX037
WP-LP-11D (dup)	0.025	2021/10/29	19	Windsor Park	Lomond Park	C	-	5524937.8	639346.3	C185266	AJX038
WP-VM-01	0.025	2021/10/27	14	Windsor Park	Vincent Massey Park	C	-	5525480.6	638785	C184218	AJP292
WP-VM-01D (dup)	0.025	2021/10/27	17	Windsor Park	Vincent Massey Park	C	-	5525480.6	638785	C184218	AJP293
WP-VM-02	0.025	2021/10/27	27	Windsor Park	Vincent Massey Park	C	-	5525480.9	638806.7	C184218	AJP294
WP-VM-03	0.025	2021/10/27	13	Windsor Park	Vincent Massey Park	C	-	5525503.9	638813.1	C184218	AJP295
WP-VM-04	0.025	2021/10/27	16	Windsor Park	Vincent Massey Park	C	-	5525504.9	638779.5	C184218	AJP296
WP-VM-05	0.025	2021/10/27	11	Windsor Park	Vincent Massey Park	C	-	5525522.5	638784	C184218	AJP297
WP-VM-06	0.025	2021/10/27	23	Windsor Park	Vincent Massey Park	C	-	5525523.8	638802.3	C184218	AJP298
WP-VM-07	0.025	2021/10/27	17	Windsor Park	Vincent Massey Park	C	-	5525559	638797.5	C184218	AJP299

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
SOIL ANALYTICAL RESULTS

Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d Northing (m)	Easting (m)	Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA^a			140								
CRITERIA^b			100-210								
WP-VM-08	0.025	2021/10/27	16	Windsor Park	Vincent Massey Park	C	-	5525590	638832.3	C184218	AJP300
WP-VM-09	0.025	2021/10/27	17	Windsor Park	Vincent Massey Park	C	-	5525541.7	638841.3	C184218	AJP301
WP-VM-10	0.025	2021/10/27	14	Windsor Park	Vincent Massey Park	C	-	5525522.5	638881	C184218	AJP302
WP-VM-11	0.025	2021/10/27	24	Windsor Park	Vincent Massey Park	C	-	5525505.2	638854.8	C184218	AJP303
WP-VM-12	0.025	2021/10/27	40	Windsor Park	Vincent Massey Park	C	-	5525490.5	638896.4	C184218	AJP304
WP-WP-01	0.025	2021/10/27	26	Windsor Park	Westmount Park	C	-	5524677.2	638797.3	C184218	AJP314
WP-WP-01D (dup)	0.025	2021/10/27	29	Windsor Park	Westmount Park	C	-	5524677.2	638797.3	C184218	AJP315
WP-WP-02	0.025	2021/10/27	11	Windsor Park	Westmount Park	C	-	5524700.8	638794.4	C184218	AJP316
WP-WP-03	0.025	2021/10/27	16	Windsor Park	Westmount Park	C	-	5524708	638814	C184218	AJP317
WP-WP-04	0.025	2021/10/27	8.2	Windsor Park	Westmount Park	C	-	5524711.6	638777.7	C184218	AJP318
WP-WP-05	0.025	2021/10/27	10	Windsor Park	Westmount Park	C	-	5524725.4	638790.5	C184218	AJP319
WP-WP-06	0.025	2021/10/27	15	Windsor Park	Westmount Park	C	-	5524757.1	638795.1	C184218	AJP320
WP-WP-07	0.025	2021/10/27	42	Windsor Park	Westmount Park	C	-	5524725.4	638812.7	C184218	AJP321
WP-WP-08	0.025	2021/10/27	14	Windsor Park	Westmount Park	C	-	5524712.3	638859.2	C184218	AJP322
WP-WP-09	0.025	2021/10/27	16	Windsor Park	Westmount Park	C	-	5524715.2	638888.4	C184218	AJP323
WP-WP-10	0.025	2021/10/27	21	Windsor Park	Westmount Park	C	-	5524716.9	638946.3	C184218	AJP324
WP-WP-11	0.025	2021/10/27	25	Windsor Park	Westmount Park	C	-	5524718.8	639013.8	C184218	AJP325
WP-WP-12	0.025	2021/10/27	46	Windsor Park	Westmount Park	C	-	5524691.3	638780.3	C184218	AJP326
WP-WP-13	0.025	2021/10/27	19	Windsor Park	Westmount Park	C	-	5524757.6	638779.3	C184218	AJP327
WP-WC-01	0.025	2021/10/28	5.2	Windsor Park	Winakwa C.C.	C	-	5525101.5	638352	C184213	AJP226
WP-WC-02	0.025	2021/10/28	7.3	Windsor Park	Winakwa C.C.	C	-	5525133.5	638330.4	C184213	AJP227
WP-WC-02D (dup)	0.025	2021/10/28	5.4	Windsor Park	Winakwa C.C.	C	-	5525133.5	638330.4	C184213	AJP228
WP-WC-03	0.025	2021/10/28	3.8	Windsor Park	Winakwa C.C.	C	-	5525115.5	638384.8	C184213	AJP229
WP-WC-04	0.025	2021/10/28	4.1	Windsor Park	Winakwa C.C.	C	-	5525115	638434.2	C184213	AJP230
WP-WC-05	0.025	2021/10/28	18	Windsor Park	Winakwa C.C.	C	-	5525114.1	638479.9	C184213	AJP231
WP-WC-06	0.025	2021/10/28	47	Windsor Park	Winakwa C.C.	C	-	5525153.4	638503.5	C184213	AJP232
WP-WC-07	0.025	2021/10/28	33	Windsor Park	Winakwa C.C.	C	-	5525187.6	638530.1	C184213	AJP233
WP-WC-08	0.025	2021/10/28	15	Windsor Park	Winakwa C.C.	C	-	5525179.8	638483.3	C184213	AJP234
WP-WC-09	0.025	2021/10/28	11	Windsor Park	Winakwa C.C.	C	-	5525158.5	638396.6	C184213	AJP235
WP-WC-10	0.025	2021/10/28	16	Windsor Park	Winakwa C.C.	C	-	5525160.1	638360.4	C184213	AJP236
WP-WC-11	0.025	2021/10/28	9.6	Windsor Park	Winakwa C.C.	C	-	5525159.6	638339.1	C184213	AJP237
WP-WC-12	0.025	2021/10/28	7.8	Windsor Park	Winakwa C.C.	C	-	5525184	638307.1	C184213	AJP238
WP-WC-13	0.025	2021/10/28	10	Windsor Park	Winakwa C.C.	C	-	5525186	638330.1	C184213	AJP239
WP-WC-14	0.025	2021/10/28	9.9	Windsor Park	Winakwa C.C.	C	-	5525182.9	638358.4	C184213	AJP241
WP-WC-15	0.025	2021/10/28	14	Windsor Park	Winakwa C.C.	C	-	5525241.5	638350	C184213	AJP242
WL-AP-01	0.025	2021/11/22	200	Wolseley	Aubrey Playground	C	-	5526646.9	631126.7	C193747	ALW460
WL-AP-02	0.025	2021/11/22	65	Wolseley	Aubrey Playground	C	-	5526644.4	631116.3	C193747	ALW461
WL-AP-03	0.025	2021/11/22	40	Wolseley	Aubrey Playground	C	-	5526648.7	631104.4	C193747	ALW462
WL-AP-04	0.025	2021/11/22	43	Wolseley	Aubrey Playground	C	-	5526671.7	631126.7	C193747	ALW463
WL-AP-05	0.025	2021/11/22	11	Wolseley	Aubrey Playground	C	-	5526677.8	631105	C193747	ALW464
WL-AP-06	0.025	2021/11/22	36	Wolseley	Aubrey Playground	C	-	5526695.7	631105.5	C193747	ALW465
WL-AP-07	0.025	2021/11/22	50	Wolseley	Aubrey Playground	C	-	5526696.7	631127	C193747	ALW466
WL-AP-08	0.025	2021/11/22	44	Wolseley	Aubrey Playground	C	-	5526709.2	631115.7	C193747	ALW467
WL-AP-09	0.025	2021/11/22	56	Wolseley	Aubrey Playground	C	-	5526720.5	631108	C193747	ALW468
WL-AP-10	0.025	2021/11/23	79	Wolseley	Aubrey Playground	C	-	5526720.5	631128.2	C193747	ALW469
WL-GP-01	0.025	2021/11/23	33	Wolseley	Greenwood Park	C	-	5526789.3	630223.8	C193747	ALW476
WL-GP-02	0.025	2021/11/23	13	Wolseley	Greenwood Park	C	-	5526795.7	630248.6	C193747	ALW477
WL-GP-03	0.025	2021/11/23	30	Wolseley	Greenwood Park	C	-	5526813.3	630236.9	C193747	ALW478
WL-GP-04	0.025	2021/11/23	44	Wolseley	Greenwood Park	C	-	5526829.5	630225.7	C193747	ALW479
WL-GP-05	0.025	2021/11/23	50	Wolseley	Greenwood Park	C	-	5526832	630247.1	C193747	ALW480

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Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

TABLE 1
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Sample ID	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Lead (mg/kg)	Neighborhood	Park or School Name	School (S) or City (C) Property	School Division ^c	GPS Coordinates ^d		Laboratory Certificate of Analysis No.	Laboratory Sample ID
CRITERIA ^a			140								
CRITERIA ^b			100-210								
WL-LS-01	0.025	2021/11/19	4.5	Wolseley	Laura Secord school (N-6)	S	WSD	5526613.3	631291.5	C193742	ALW388
WL-LS-02	0.025	2021/11/19	3.8	Wolseley	Laura Secord school (N-6)	S	WSD	5526614.2	631269.8	C193742	ALW389
WL-LS-03	0.025	2021/11/19	2.8	Wolseley	Laura Secord school (N-6)	S	WSD	5526632	631283.4	C193742	ALW390
WL-LS-04	0.025	2021/11/19	5.7	Wolseley	Laura Secord school (N-6)	S	WSD	5526642.1	631312.9	C193742	ALW391
WL-LS-05	0.025	2021/11/19	4.1	Wolseley	Laura Secord school (N-6)	S	WSD	5526651.1	631272.7	C193742	ALW392
WL-LS-06	0.025	2021/11/19	3.1	Wolseley	Laura Secord school (N-6)	S	WSD	5526684.2	631272.1	C193742	ALW393
WL-MS-01	0.025	2021/11/19	34	Wolseley	Mulvey school (N-6)	S	WSD	5526875.7	631972.5	C193742	ALW394
WL-MS-02	0.025	2021/11/19	80	Wolseley	Mulvey school (N-6)	S	WSD	5526874.9	631995.7	C193742	ALW395
WL-MS-03	0.025	2021/11/19	50	Wolseley	Mulvey school (N-6)	S	WSD	5526875.1	632052.3	C193742	ALW396
WL-MS-04	0.025	2021/11/19	30	Wolseley	Mulvey school (N-6)	S	WSD	5526876.8	632075.7	C193742	ALW397
WL-MS-05	0.025	2021/11/19	29	Wolseley	Mulvey school (N-6)	S	WSD	5526876.2	632097.2	C193742	ALW398
WL-MS-06	0.025	2021/11/19	27	Wolseley	Mulvey school (N-6)	S	WSD	5526903.4	632097.9	C193742	ALW399
WL-MS-07	0.025	2021/11/19	17	Wolseley	Mulvey school (N-6)	S	WSD	5526904.2	632076.4	C193742	ALW400
WL-MS-08	0.025	2021/11/19	30	Wolseley	Mulvey school (N-6)	S	WSD	5526906.3	632052.4	C193742	ALW401
WL-MS-09	0.025	2021/11/19	62	Wolseley	Mulvey school (N-6)	S	WSD	5526932.1	632055.7	C193742	ALW402
WL-MS-09D (dup)	0.025	2021/11/19	39	Wolseley	Mulvey school (N-6)	S	WSD	5526932.1	632055.7	C193742	ALW403
WL-MS-10	0.025	2021/11/19	21	Wolseley	Mulvey school (N-6)	S	WSD	5526930.7	632077.2	C193742	ALW404
WL-MS-11	0.025	2021/11/19	49	Wolseley	Mulvey school (N-6)	S	WSD	5526931.8	632100.6	C193742	ALW405
WL-NT-01	0.025	2021/11/23	85	Wolseley	Nick Ternette Memorial Park	C	-	5527160.8	631434.2	C193747	ALW470
WL-NT-02	0.025	2021/11/23	55	Wolseley	Nick Ternette Memorial Park	C	-	5527166.5	631433.3	C193747	ALW471
WL-NT-02D (dup)	0.025	2021/11/23	57	Wolseley	Nick Ternette Memorial Park	C	-	5527166.5	631433.3	C193747	ALW472
WL-NT-03	0.025	2021/11/23	50	Wolseley	Nick Ternette Memorial Park	C	-	5527166.4	631438.2	C193747	ALW473
WL-NT-04	0.025	2021/11/23	35	Wolseley	Nick Ternette Memorial Park	C	-	5527167.7	631452.5	C193747	ALW474
WL-NT-05	0.025	2021/11/23	82	Wolseley	Nick Ternette Memorial Park	C	-	5527160.5	631453.4	C193747	ALW475
WL-RS-01	0.025	2021/11/22	24	Wolseley	Robert A. Steen Memorial C.C	C	-	5526521.2	631251.3	C193747	ALW456
WL-RS-02	0.025	2021/11/22	14	Wolseley	Robert A. Steen Memorial C.C	C	-	5526552.4	631280.4	C193747	ALW457
WL-RS-03	0.025	2021/11/22	15	Wolseley	Robert A. Steen Memorial C.C	C	-	5526566.7	631276.8	C193747	ALW458
WL-RS-04	0.025	2021/11/22	16	Wolseley	Robert A. Steen Memorial C.C	C	-	5526582.7	631278.6	C193747	ALW459
WL-VR-01	0.025	2021/11/22	22	Wolseley	Vimy Ridge Memorial Park	C	-	5527376.8	631702.3	C193742	ALW406
WL-VR-02	0.025	2021/11/22	62	Wolseley	Vimy Ridge Memorial Park	C	-	5527391.7	631678.3	C193742	ALW407
WL-VR-02D (dup)	0.025	2021/11/22	59	Wolseley	Vimy Ridge Memorial Park	C	-	5527391.7	631678.3	C193742	ALW408
WL-VR-03	0.025	2021/11/22	75	Wolseley	Vimy Ridge Memorial Park	C	-	5527360.8	631669.6	C193742	ALW409
WL-VR-04	0.025	2021/11/22	65	Wolseley	Vimy Ridge Memorial Park	C	-	5527367	631640	C193742	ALW410
WL-VR-05	0.025	2021/11/22	61	Wolseley	Vimy Ridge Memorial Park	C	-	5527368.1	631605.9	C193742	ALW411
WL-VR-06	0.025	2021/11/22	53	Wolseley	Vimy Ridge Memorial Park	C	-	5527395.2	631615	C193742	ALW412
WL-VR-07	0.025	2021/11/22	5.8	Wolseley	Vimy Ridge Memorial Park	C	-	5527409.5	631658.1	C193742	ALW413
WL-VR-08	0.025	2021/11/22	54	Wolseley	Vimy Ridge Memorial Park	C	-	5527426.5	631697.4	C193742	ALW414
WL-VR-09	0.025	2021/11/22	72	Wolseley	Vimy Ridge Memorial Park	C	-	5527446.3	631662.5	C193742	ALW415
WL-VR-10	0.025	2021/11/22	42	Wolseley	Vimy Ridge Memorial Park	C	-	5527448.5	631625.8	C193742	ALW416
WL-VR-11	0.025	2021/11/22	52	Wolseley	Vimy Ridge Memorial Park	C	-	5527425.7	631596.8	C193742	ALW417
WL-VR-12	0.025	2021/11/22	130	Wolseley	Vimy Ridge Memorial Park	C	-	5527448.5	631598.3	C193742	ALW418
WL-VR-13	0.025	2021/11/22	74	Wolseley	Vimy Ridge Memorial Park	C	-	5527475.2	631600.4	C193742	ALW419
WL-VR-14	0.025	2021/11/22	25	Wolseley	Vimy Ridge Memorial Park	C	-	5527470.7	631650.1	C193742	ALW420
WL-VR-15	0.025	2021/11/22	86	Wolseley	Vimy Ridge Memorial Park	C	-	5527465.9	631714.5	C193742	ALW421
WL-VR-16	0.025	2021/11/22	53	Wolseley	Vimy Ridge Memorial Park	C	-	5527489.5	631686	C193742	ALW422
WL-VR-17	0.025	2021/11/22	66	Wolseley	Vimy Ridge Memorial Park	C	-	5527521.5	631666.1	C193747	ALW446
WL-VR-18	0.025	2021/11/22	220	Wolseley	Vimy Ridge Memorial Park	C	-	5527530.2	631713.8	C193747	ALW447
WL-VR-19	0.025	2021/11/22	76	Wolseley	Vimy Ridge Memorial Park	C	-	5527546.6	631633.1	C193747	ALW448
WL-VR-20	0.025	2021/11/22	39	Wolseley	Vimy Ridge Memorial Park	C	-	5527568.5	631684.9	C193747	ALW449
WL-WL-01	0.025	2021/11/22	74	Wolseley	Westminster Tot Lot	C	-	5527046.4	631685.7	C193747	ALW450

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CRITERIA ^a			140								
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WL-WL-02	0.025	2021/11/22	12	Wolseley	Westminster Tot Lot	C	-	5527053	631684.7	C193747	ALW451
WL-WL-03	0.025	2021/11/22	130	Wolseley	Westminster Tot Lot	C	-	5527053.7	631694.6	C193747	ALW452
WL-WL-04	0.025	2021/11/22	81	Wolseley	Westminster Tot Lot	C	-	5527072.1	631693.1	C193747	ALW453
WL-WL-05	0.025	2021/11/22	10	Wolseley	Westminster Tot Lot	C	-	5527076.2	631688.9	C193747	ALW454
WL-WL-06	0.025	2021/11/22	16	Wolseley	Westminster Tot Lot	C	-	5527078	631694.6	C193747	ALW455
WL-WS-01	0.025	2021/11/19	28	Wolseley	Wolseley school (N-6)	S	WSD	5526915.7	630309.6	C193742	ALW379
WL-WS-02	0.025	2021/11/19	76	Wolseley	Wolseley school (N-6)	S	WSD	5526934.2	630359.9	C193742	ALW380
WL-WS-03	0.025	2021/11/19	37	Wolseley	Wolseley school (N-6)	S	WSD	5526937.9	630331.8	C193742	ALW381
WL-WS-03D (dup)	0.025	2021/11/19	26	Wolseley	Wolseley school (N-6)	S	WSD	5526937.9	630331.8	C193742	ALW382
WL-WS-04	0.025	2021/11/19	21	Wolseley	Wolseley school (N-6)	S	WSD	5526949.8	630308.8	C193742	ALW383
WL-WS-05	0.025	2021/11/19	13	Wolseley	Wolseley school (N-6)	S	WSD	5526979.4	630309.2	C193742	ALW384
WL-WS-06	0.025	2021/11/19	51	Wolseley	Wolseley school (N-6)	S	WSD	5526970.9	630333.3	C193742	ALW385
WL-WS-07	0.025	2021/11/19	55	Wolseley	Wolseley school (N-6)	S	WSD	5526979.4	630358.8	C193742	ALW386
WL-WS-08	0.025	2021/11/19	4.2	Wolseley	Wolseley school (N-6)	S	WSD	5526956.4	630351.8	C193742	ALW387

a - Soil Quality Guidelines for the Protection of Environmental and Human Health (1999); Canadian Council of Ministers of the Environment (CCME); residential/parkland land use.

b - Assessment of Elevated Concentrations of Lead in Soil in Winnipeg Neighborhoods, Intrinsic Corp., Nov. 29, 2019.

c - WSD: Winnipeg School Division, DS: Division Scolaire Franco-Manitobaine, LR: Louis Riel School Division, SJ: St. James Assiniboia School Division, IS: independent school.

d - GPS coordinates are in NAD 83/Zone 14.

"-" - Not applicable

(dup) - Duplicate

mbgs - metres below ground surface

(re-run) - Sample re-run by laboratory on original soil

C [in use by SJ] - City owned property, that is in use by the adjacent school

BOLD - Equals to or exceeds applicable Intrinsic criterion

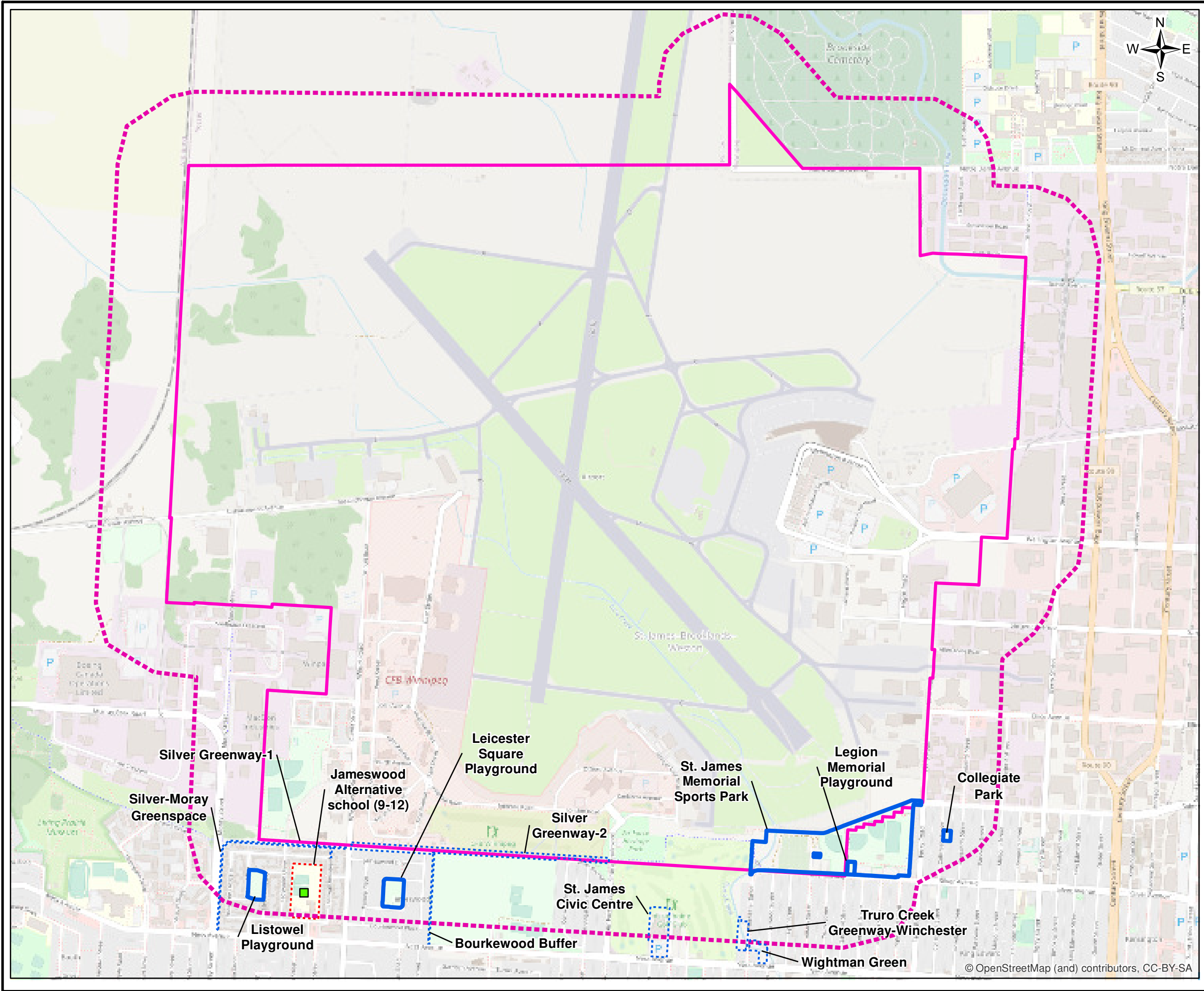
BOLD - Exceeds applicable CCME criterion

Note: Kavanagh Park samples are split between Dufresne and Mission Industrial neighborhoods

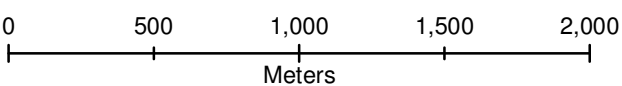
APPENDIX A

SAMPLING SITES BY NEIGHBORHOOD (DRAWINGS NO. A.1 TO A.40)

Document Path: C:\Z_Drive\10-12553\MXD\F_01_Airport.mxd



- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (St. James Assiniboia School Division)
 - 500 m from airport (City neighborhood) boundary
 - Airport Neighborhood

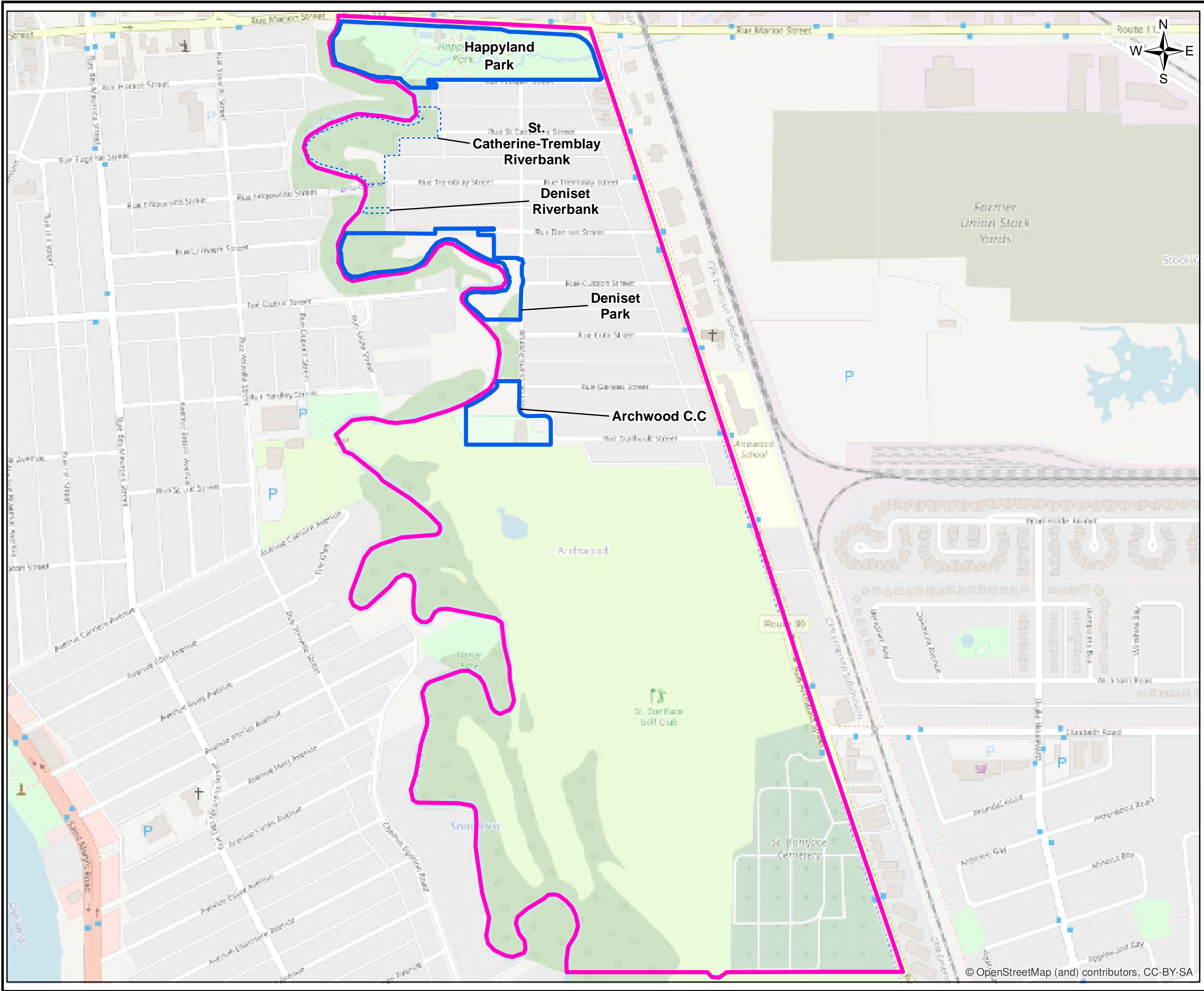


Airport Buffer

Lead in Soil Testing Program

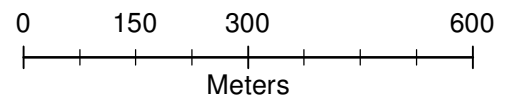
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
<div>PARSONS</div>	Drawing No.: A.1	



LEGEND

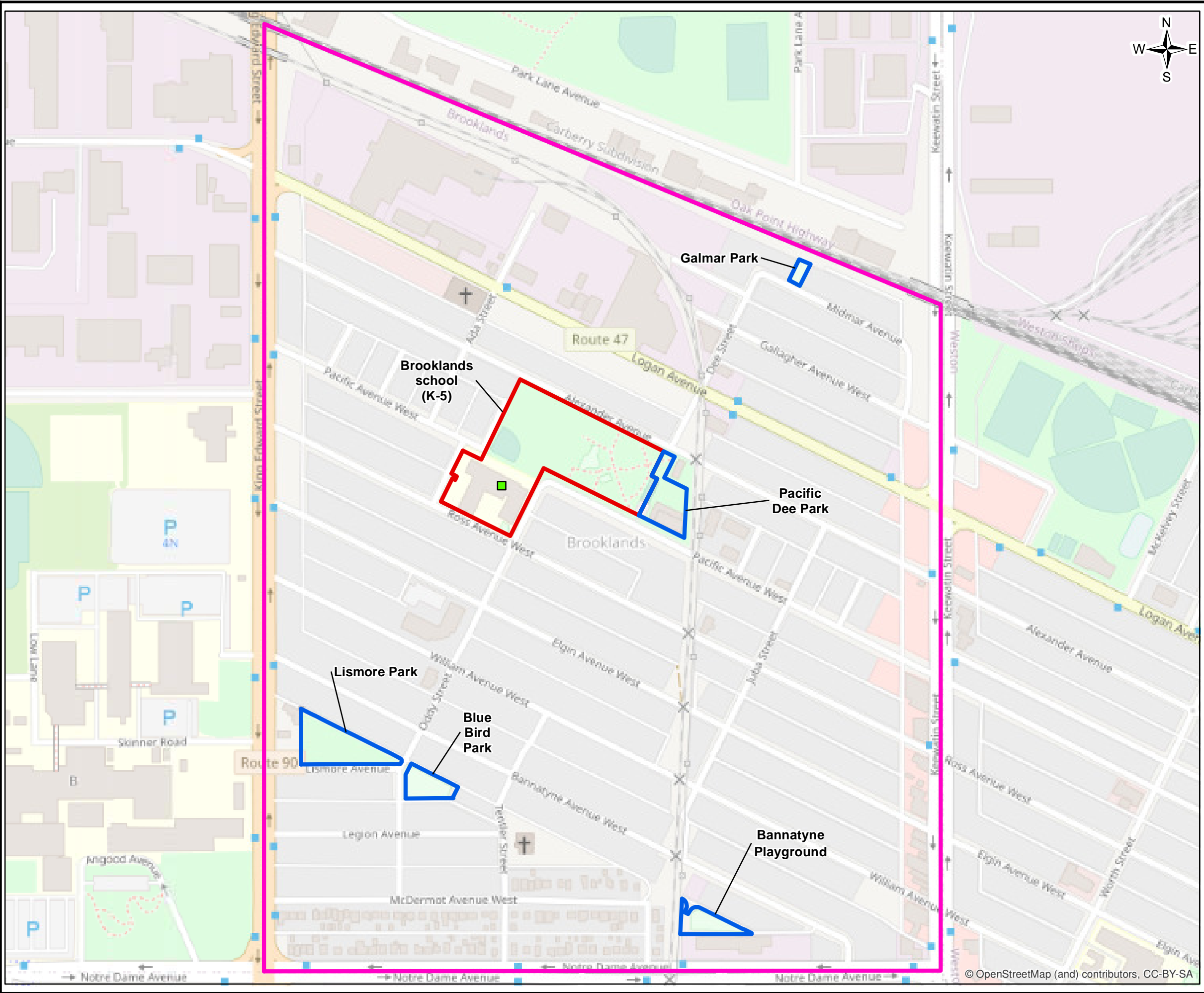
- Park: Sampled
- Park: Not Sampled
- Neighborhood of Interest



Archwood
Lead in Soil Testing Program
Winnipeg, Manitoba

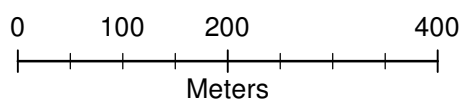
	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.2

Document Path: C:\Z_Drive\10-12553\MXD\F_03_Brooklands.mxd



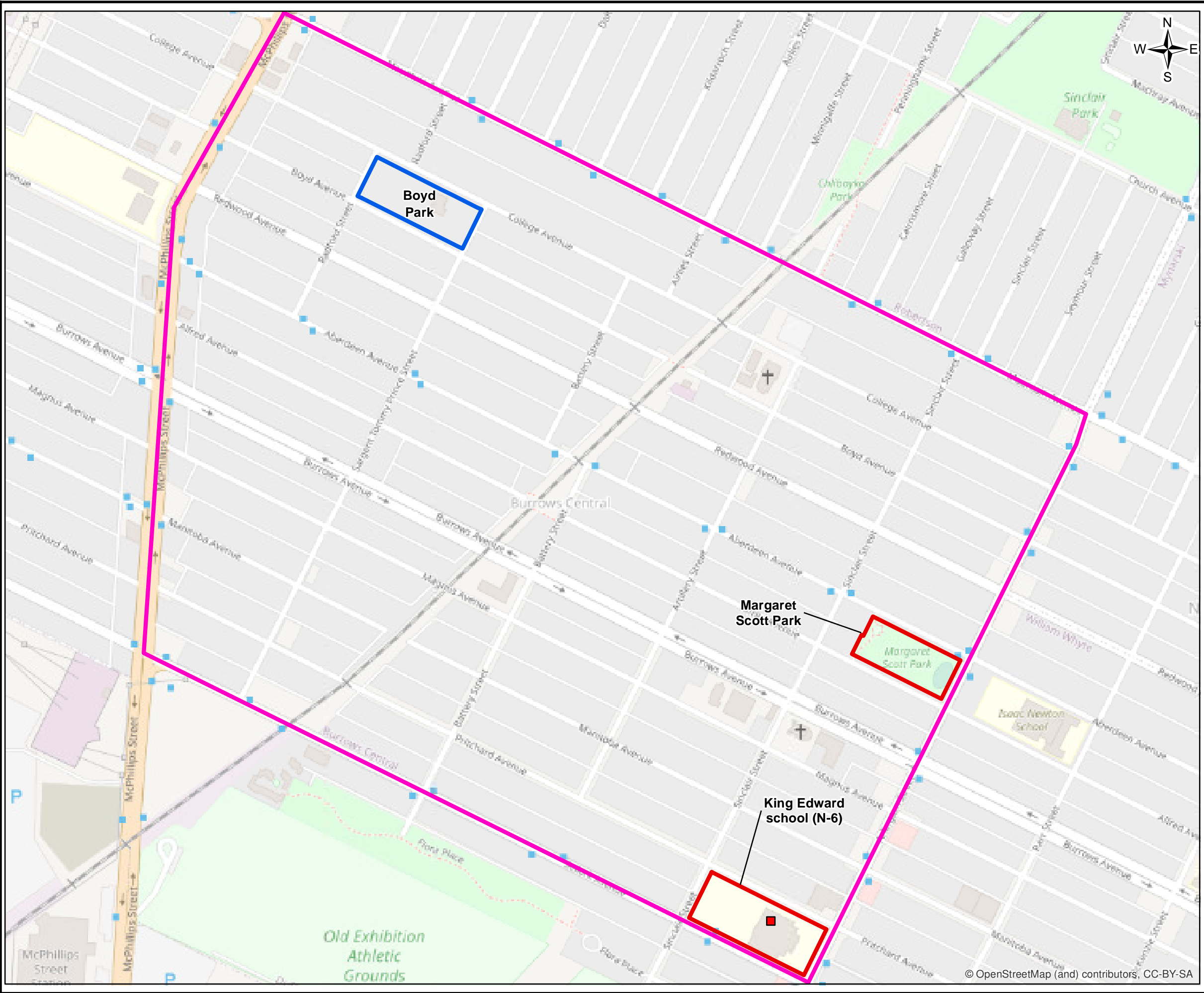
LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (St. James Assiniboia School Division)
- Neighborhood of Interest



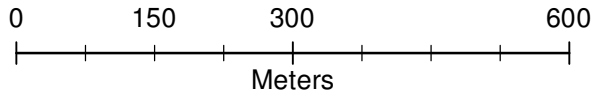
Brooklands
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.3



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



Burrows Central

Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD Ref: 10-12553

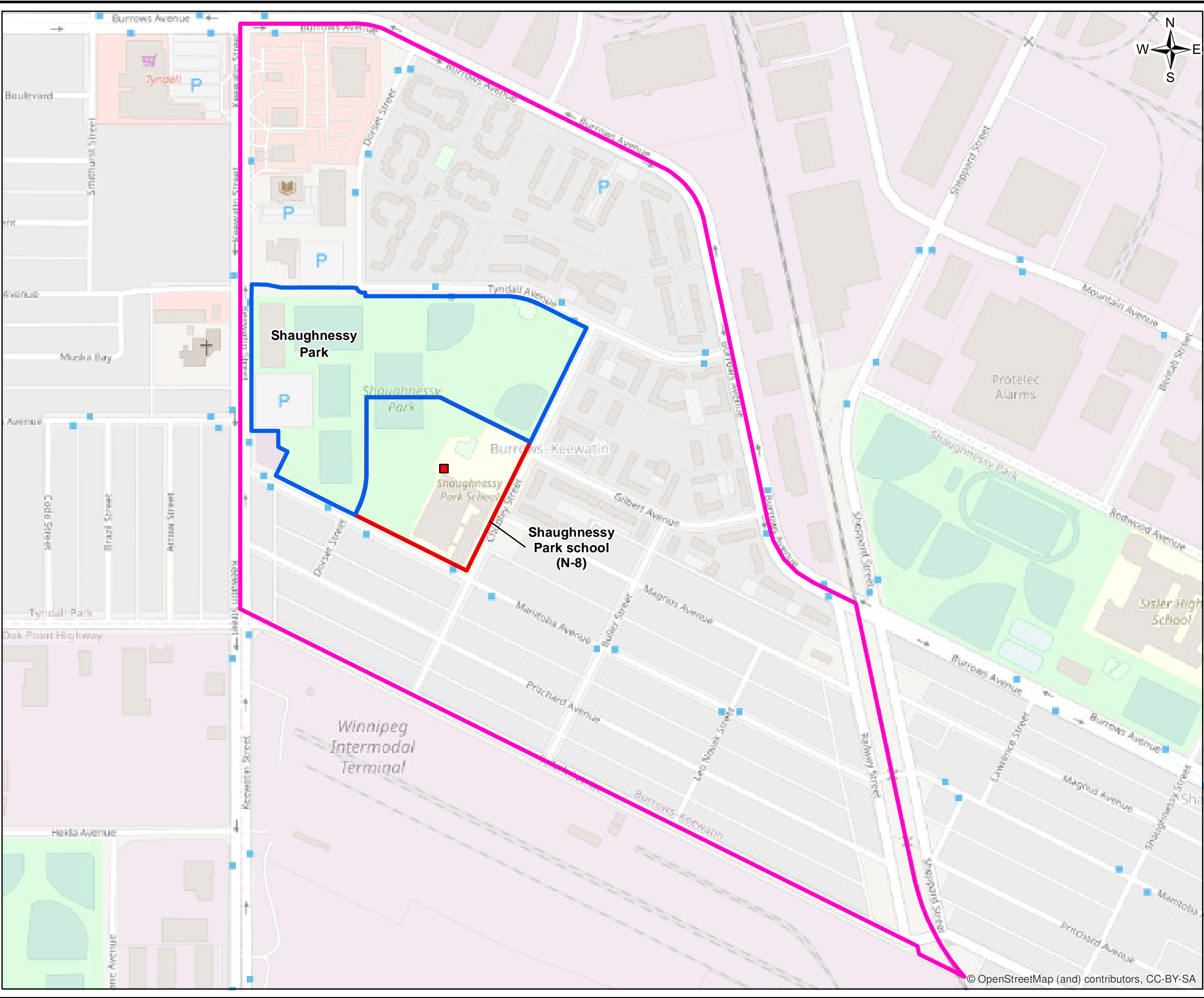
Reviewed By: GSK Date: 13-Jan-2022

Drawing No.:

PARSONS

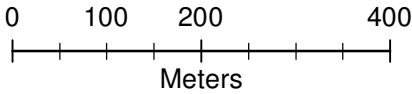
A.4

Document Path: C:\Z_Drive\10-12553\MXD\F_05_BurrowsKeewatin.mxd



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest

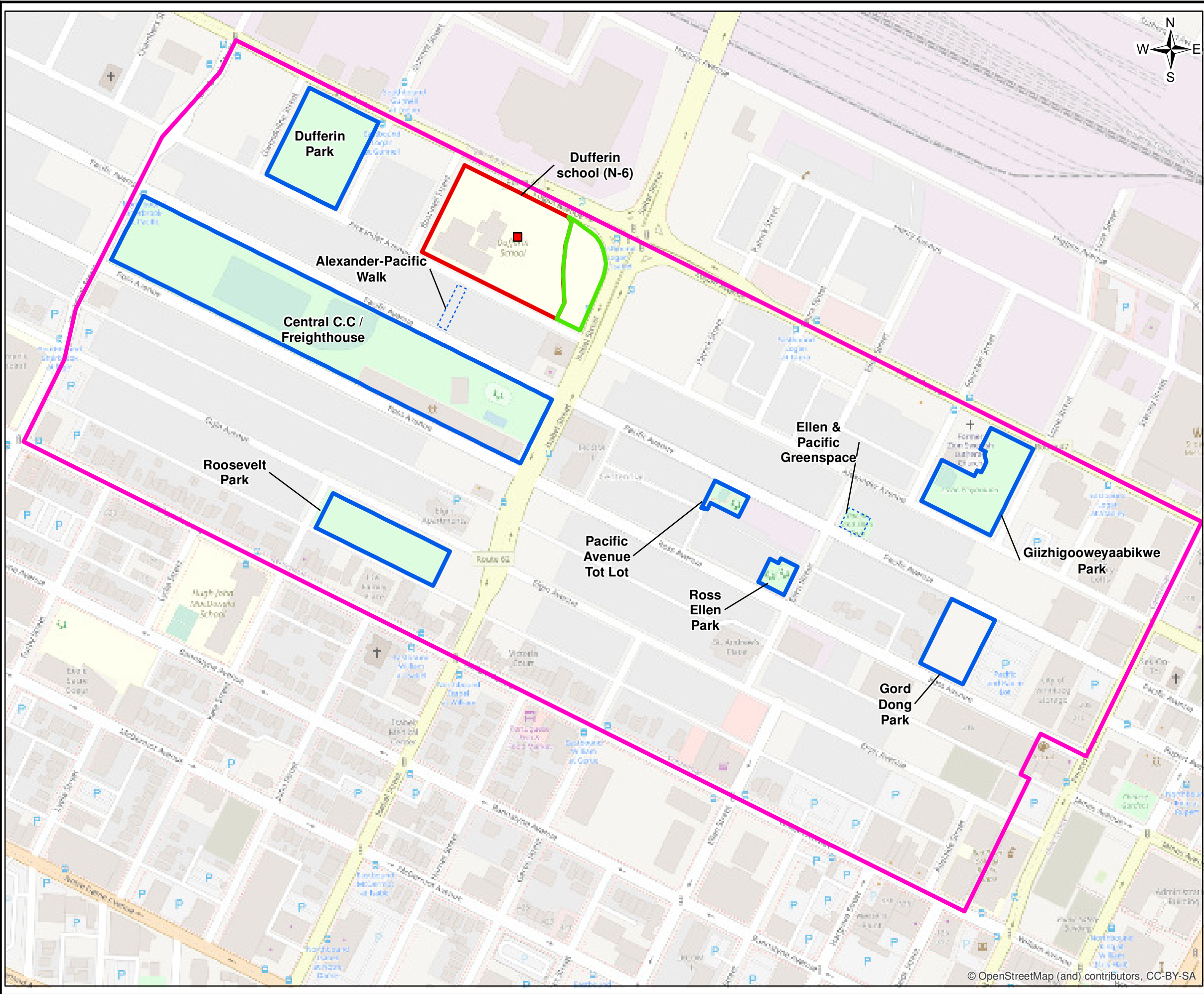


Burrows Keewatin
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

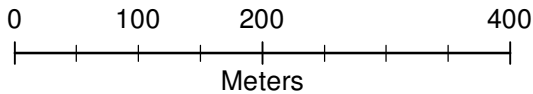
PARSONS

Drawing No.:
A.5



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- City Property used by School: Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest

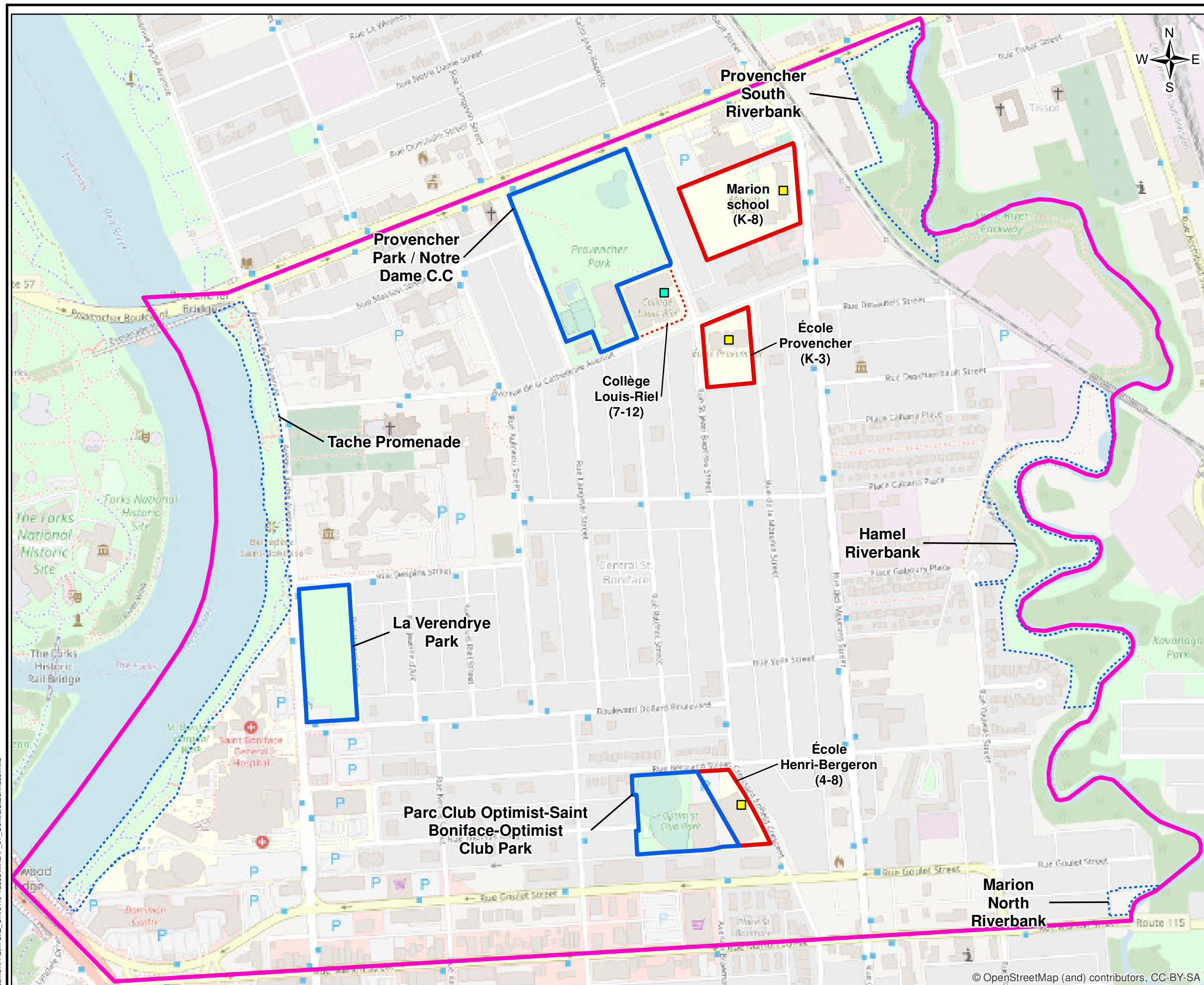


Centennial
Lead in Soil Testing Program
Winnipeg, Manitoba







Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

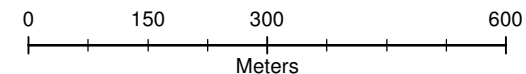
PARSONS

Drawing No.:
A.6



LEGEND

-  Park: Sampled
-  Park: Not Sampled
-  School: Sampled
-  School: Not Sampled
-  School (Division scolaire franco-manitobaine)
-  School (Louis Riel School Division)
-  Neighborhood of Interest



Central St. Boniface

Lead in Soil Testing Program Winnipeg, Manitoba

Drawn By: SLD

Ref: 10-12553

Reviewed By: GSK

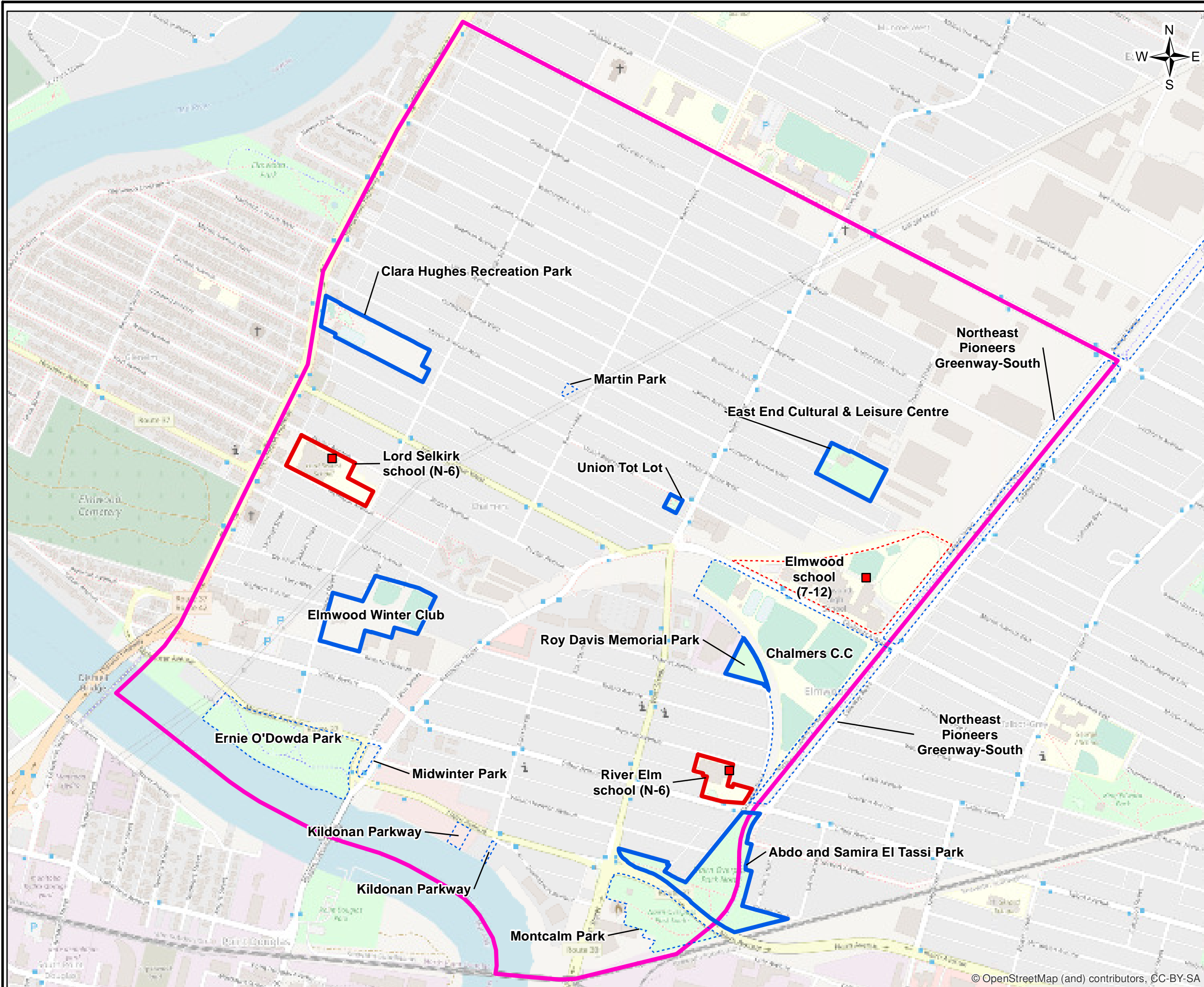
Date: 13-Jan-2022

Drawing No.:	
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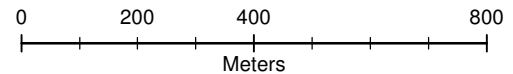
PARSONS

A.7

Document Path: C:\Z_Drive\10-12553 MXD\F_08_Chalmers.mxd



- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - Neighborhood of Interest

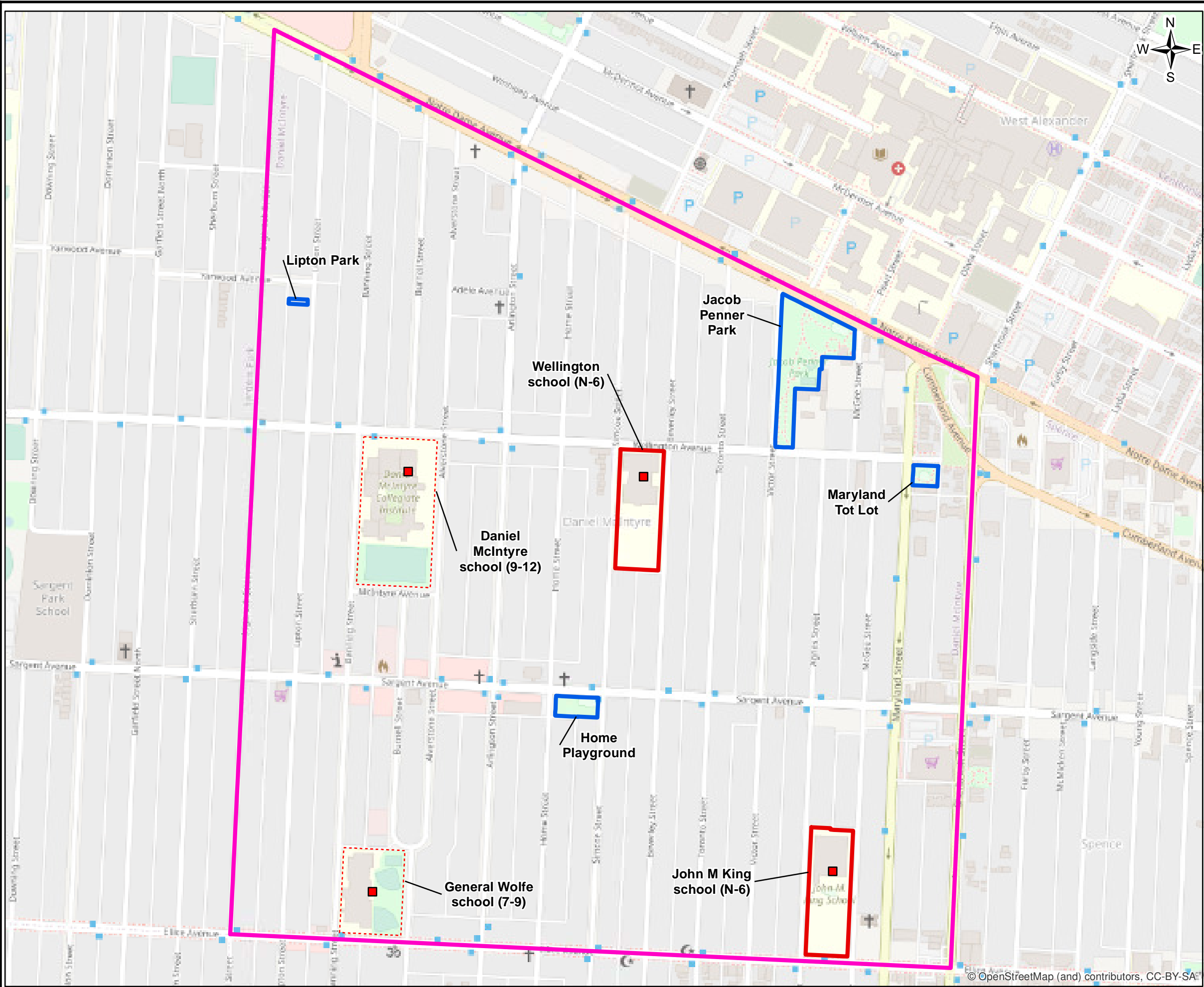


Chalmers
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

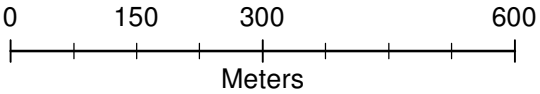
PARSONS

Drawing No.:
A.8



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



Daniel McIntyre

Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD Ref: 10-12553

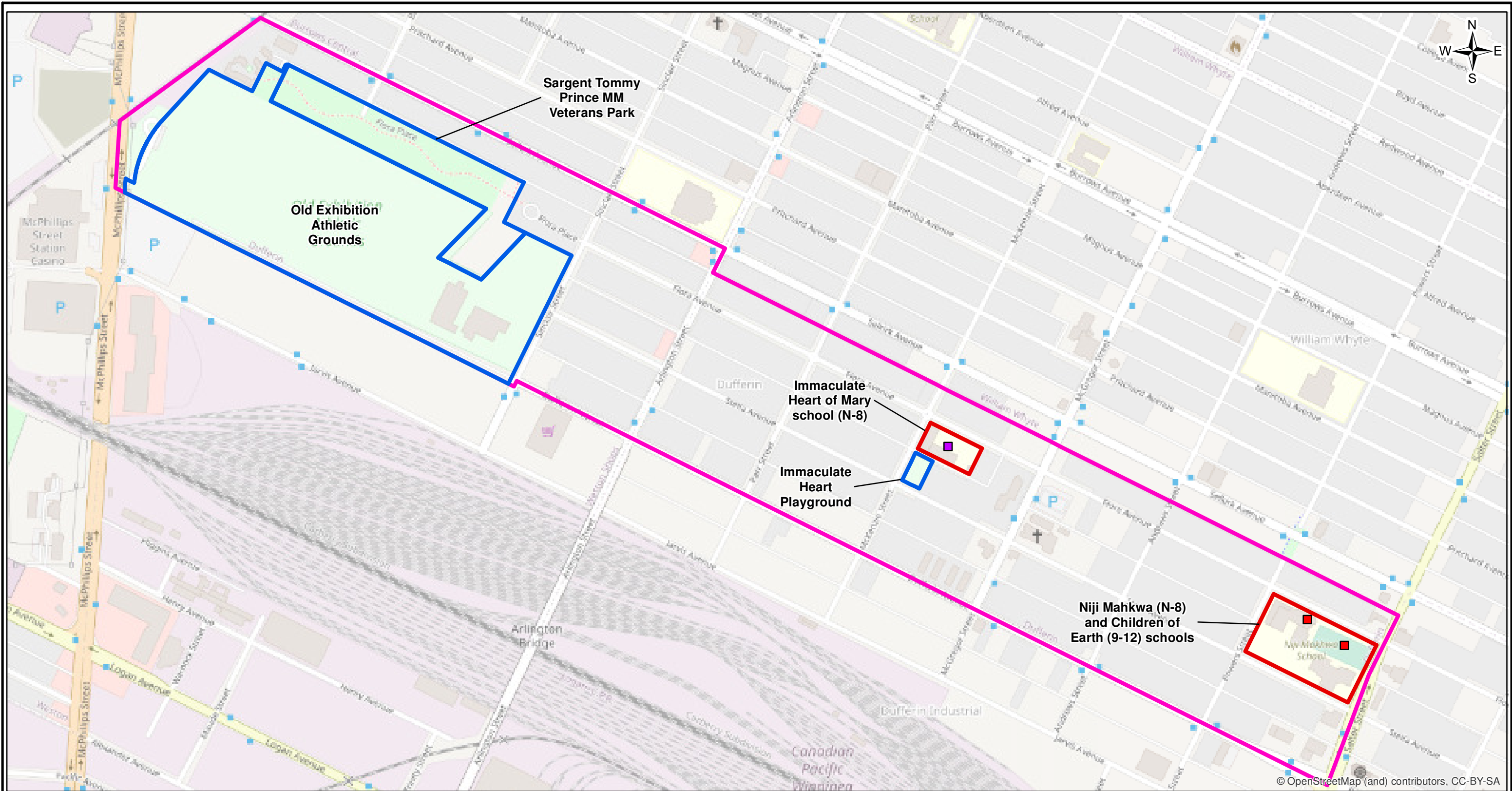
Reviewed By: GSK Date: 13-Jan-2022

Drawing No.:

PARSONS

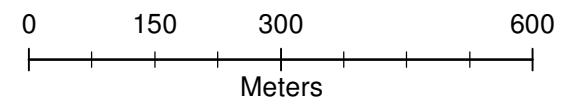
A.9

Document Path: C:\Z_Drive\10-12553 MXD\F_10_Dufferin.mxd



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- School (Independent)
- Neighborhood of Interest



Dufferin Lead in Soil Testing Program Winnipeg, Manitoba

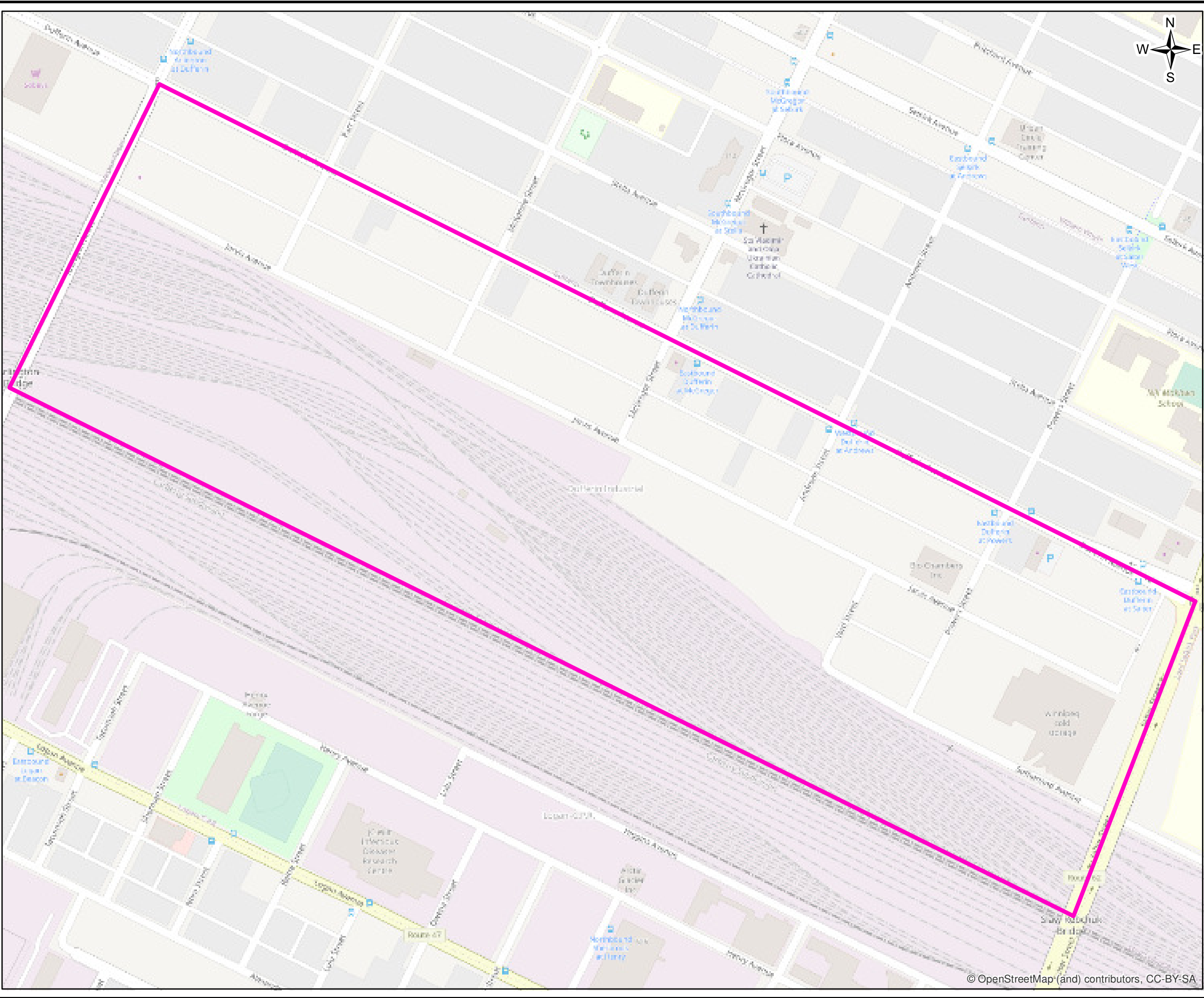
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Reviewed By: GSK Date: 20-Mar-2022

Drawing No.:

PARSONS

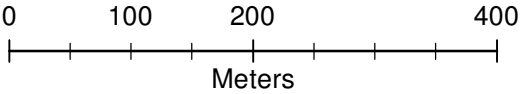
A.10



LEGEND

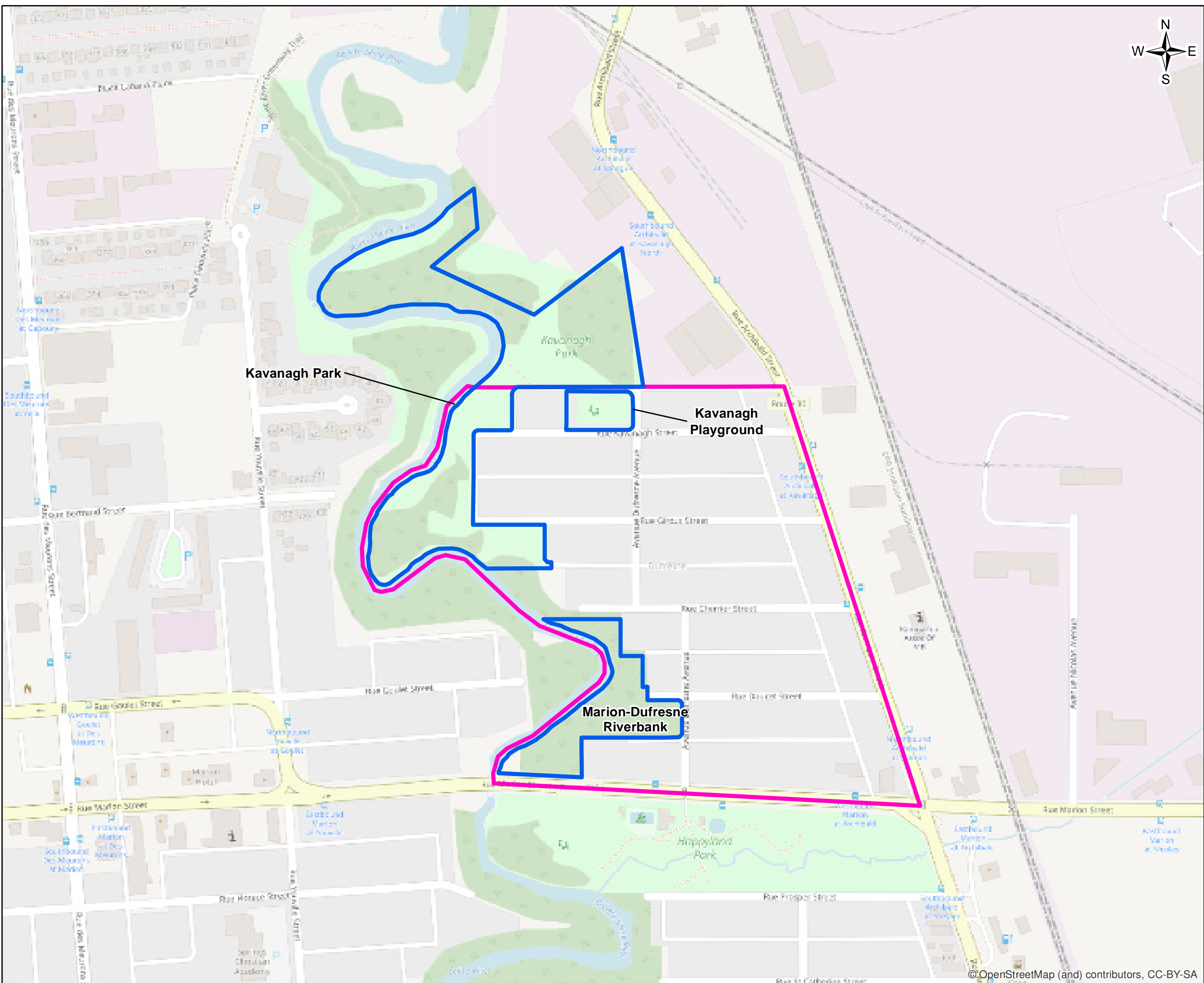
- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- Neighborhood of Interest

Notes:
- There are no parks or schools located in this neighborhood.



Dufferin Industrial
Lead in Soil Testing Program
Winnipeg, Manitoba

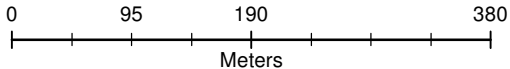
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	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.11



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- Neighborhood of Interest

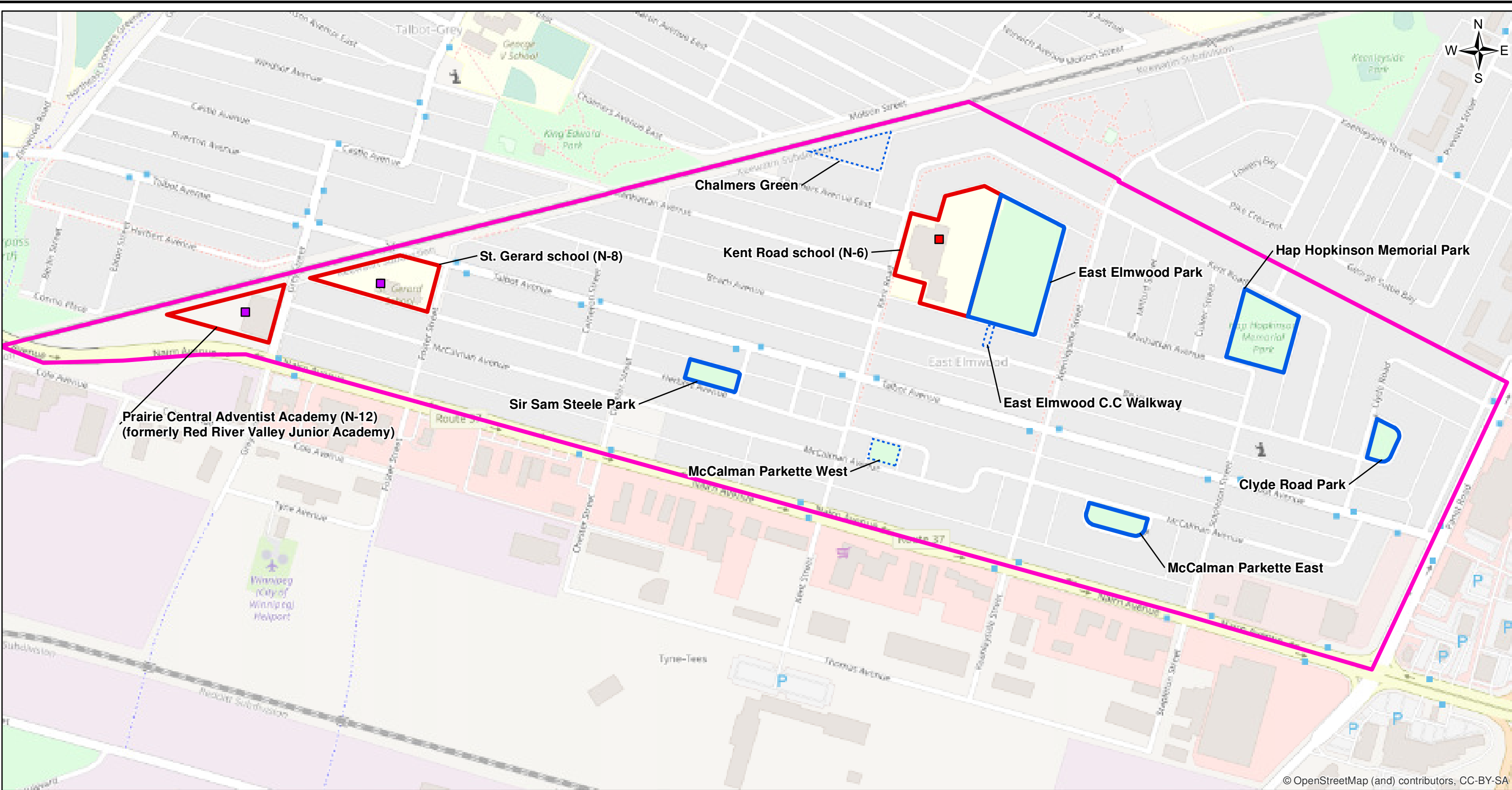
Notes:
- Kavanagh park is located in both Dufresne and Mission Industrial neighborhoods.



Dufresne
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.12

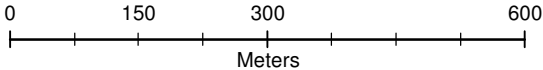
Document Path: C:\Z_Drive\10-12553 MXD\F_13_EastElmwood.mxd



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LEGEND

- School: Sampled
- School: Not Sampled
- Park: Sampled
- Park: Not Sampled
- School (Winnipeg School Division)
- School (Independent)
- Neighborhood of Interest



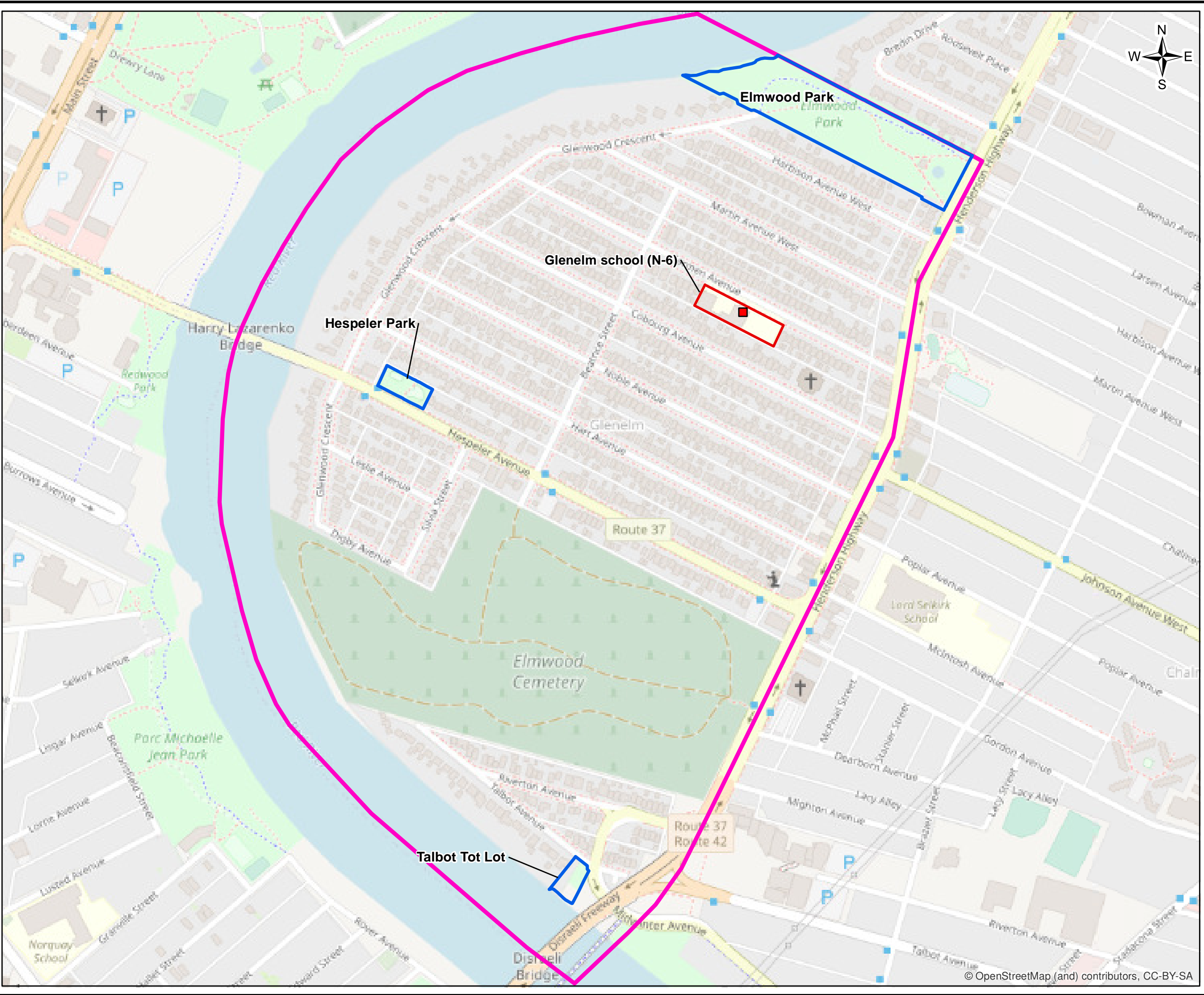
East Elmwood

Lead in Soil Testing Program

Winnipeg, Manitoba

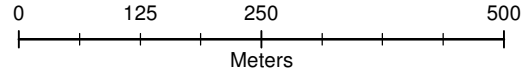
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	Reviewed By: GSK	Date: 20-Mar-2022
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Document Path: C:\Z_Drive\10-12553\MXD\F_14_Glenelm.mxd



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



Glenelm

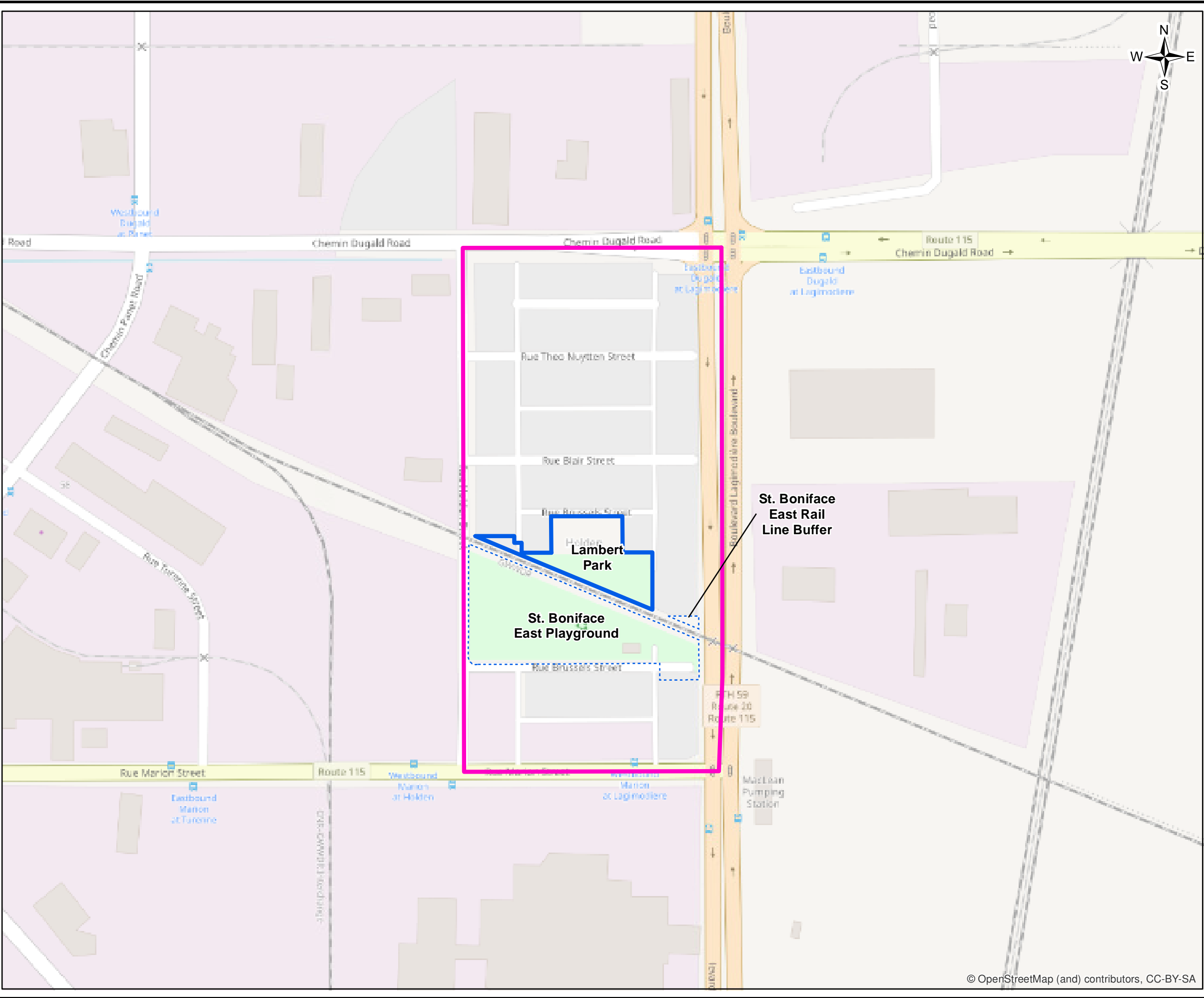
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

PARSONS

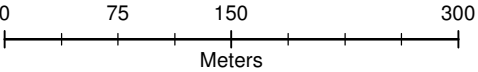
Drawing No.:
A.14

Document Path: C:\Z_Drive\10-12553\MXD\F_15_Holden.mxd



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- Neighborhood of Interest



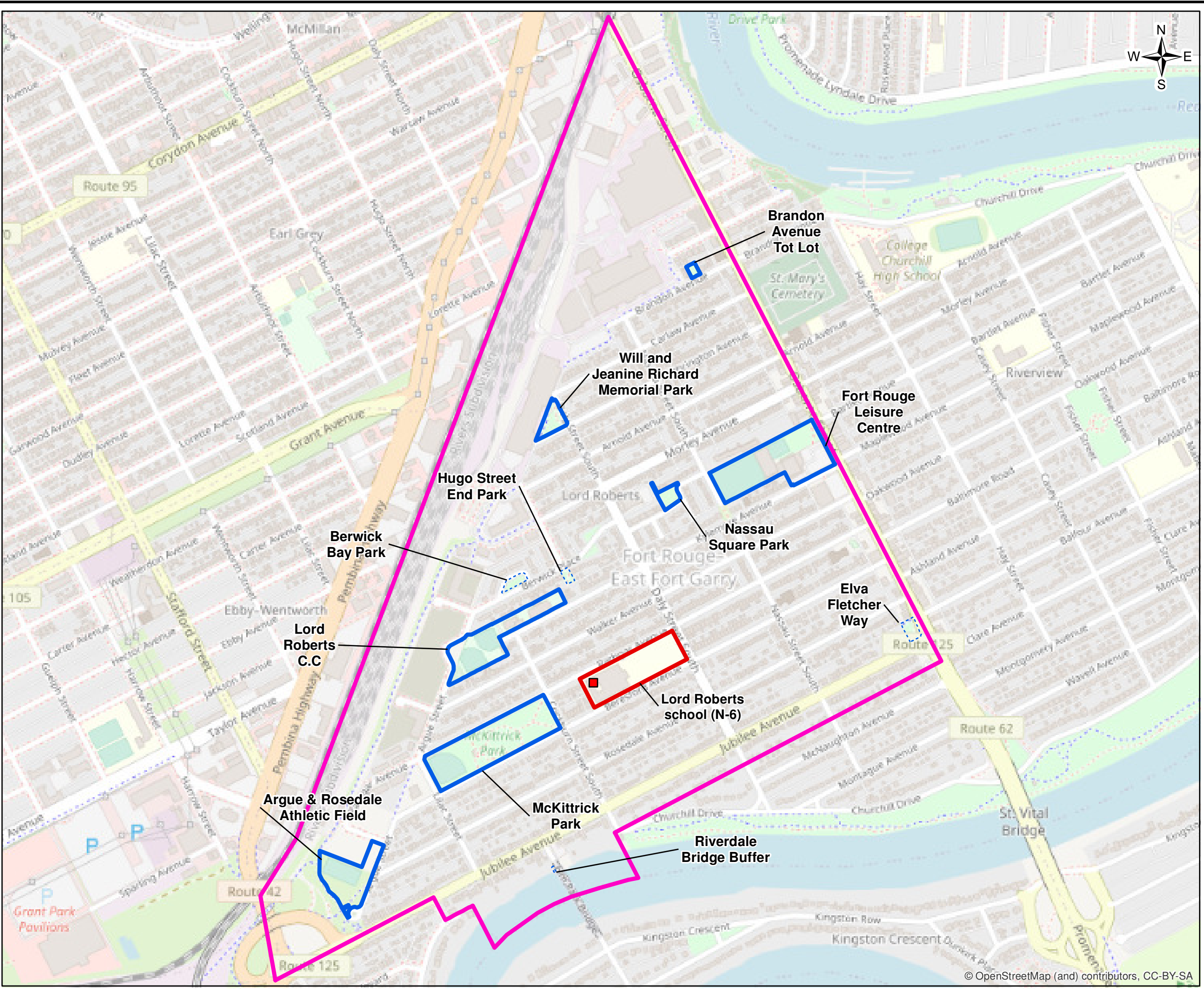
Holden
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022
Drawing No.:	

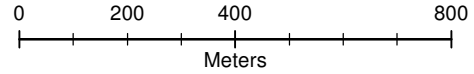
PARSONS

A.15

Document Path: C:\Z_Drive\10-12553 MXD\F_17_LordRoberts.mxd

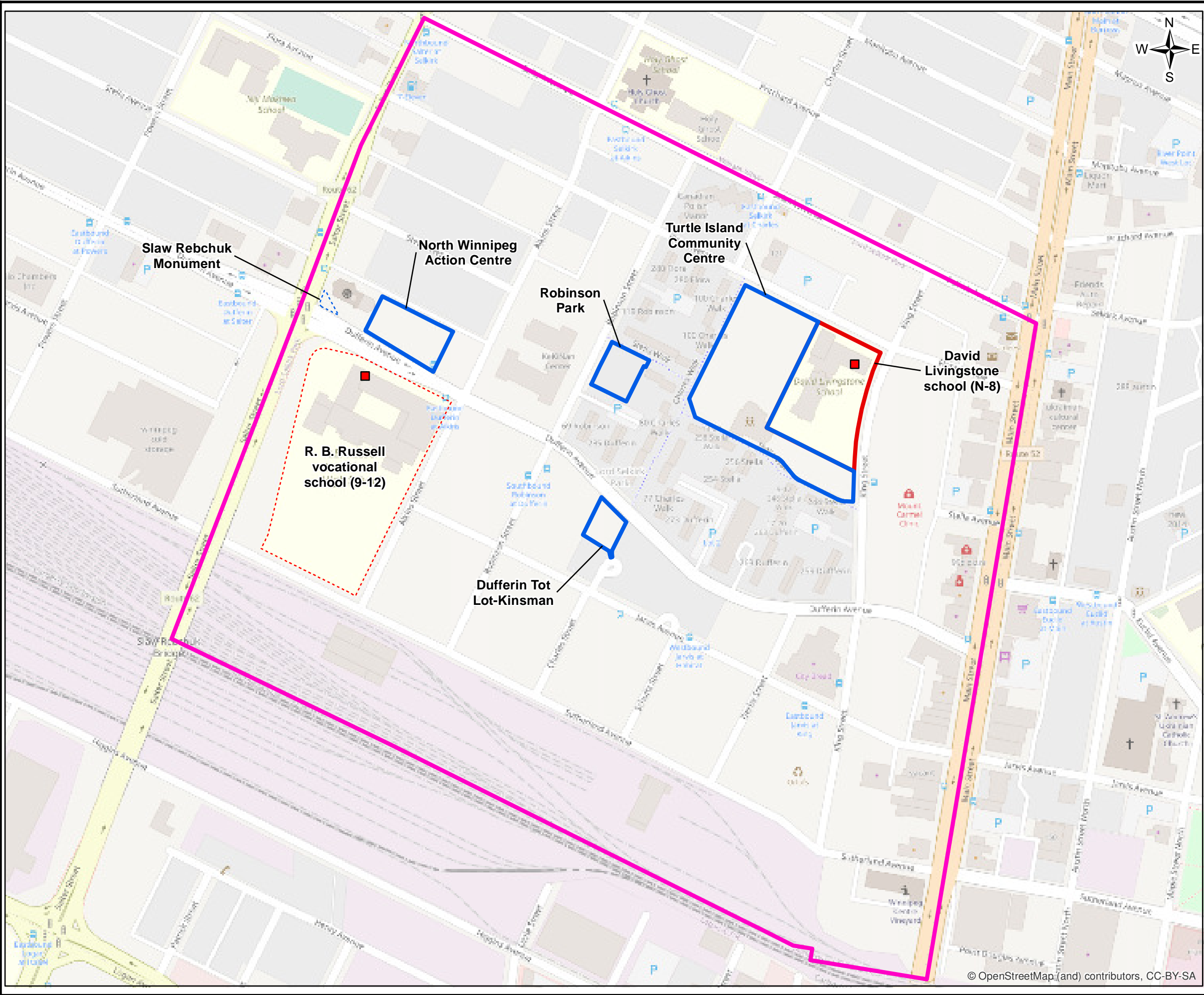


- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - Neighborhood of Interest



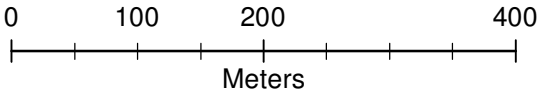
Lord Roberts
Lead in Soil Testing Program
Winnipeg, Manitoba

PARSONS	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
Drawing No.:		A.17



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



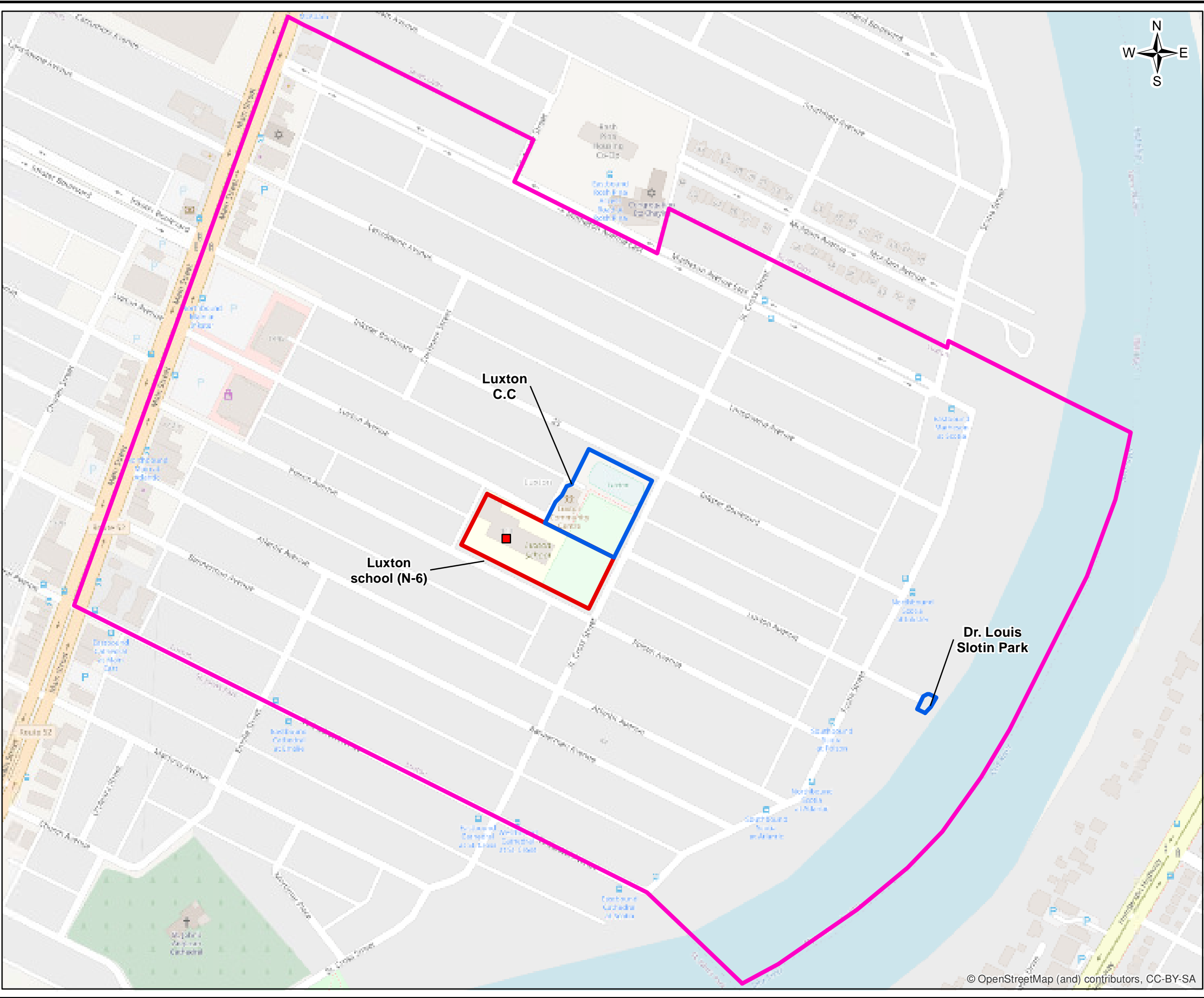
Lord Selkirk Park

Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

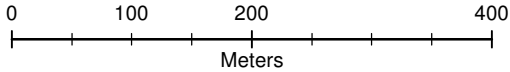
PARSONS

Drawing No.:
A.18



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest

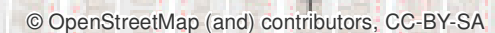


Luxton
Lead in Soil Testing Program
Winnipeg, Manitoba

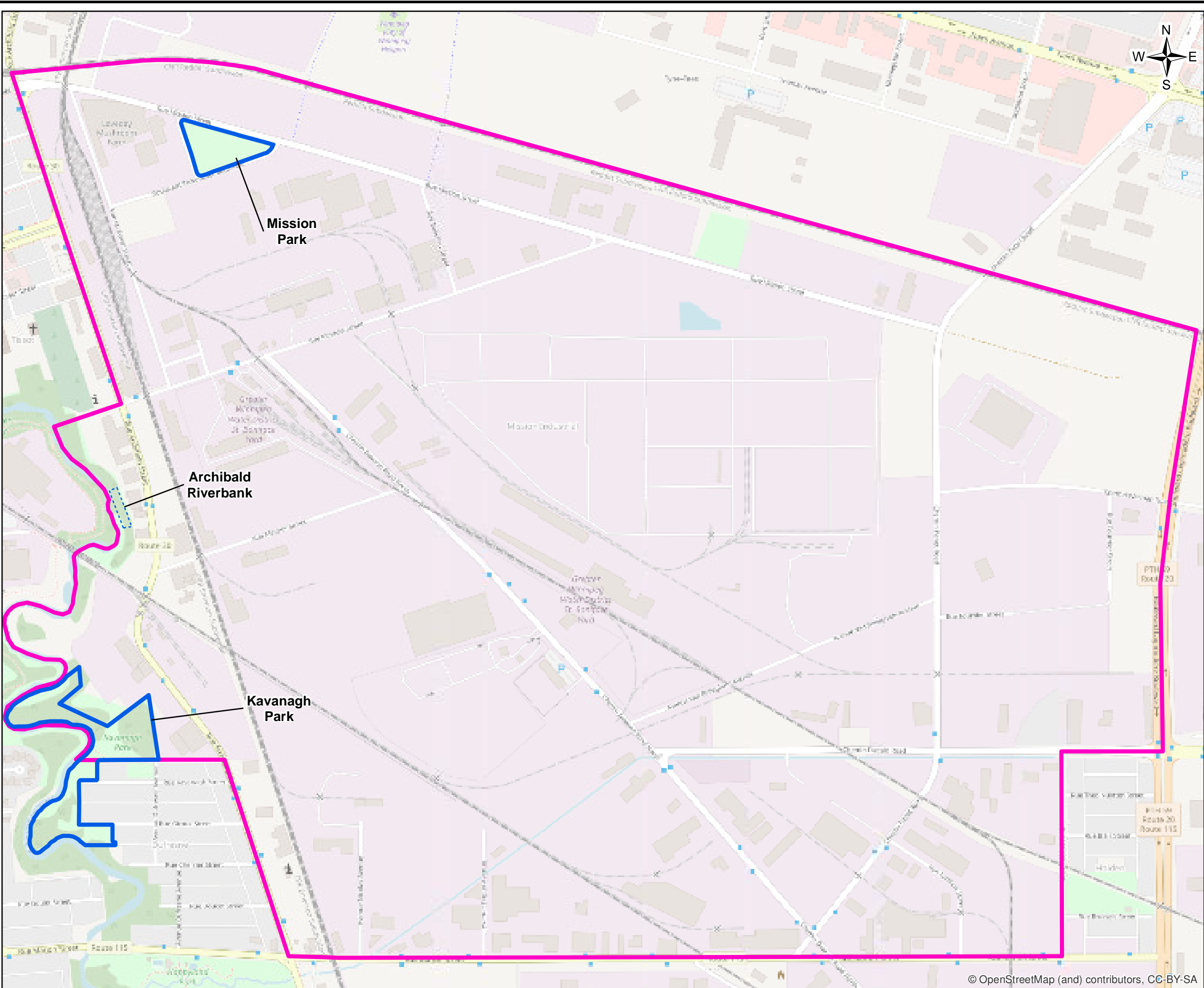
Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

PARSONS

Drawing No.:
A.19



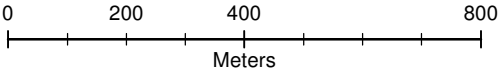
Document Path: C:\Z_Drive\10-12553\MXD\F_21_MissionIndustrial.mxd



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- Neighborhood of Interest

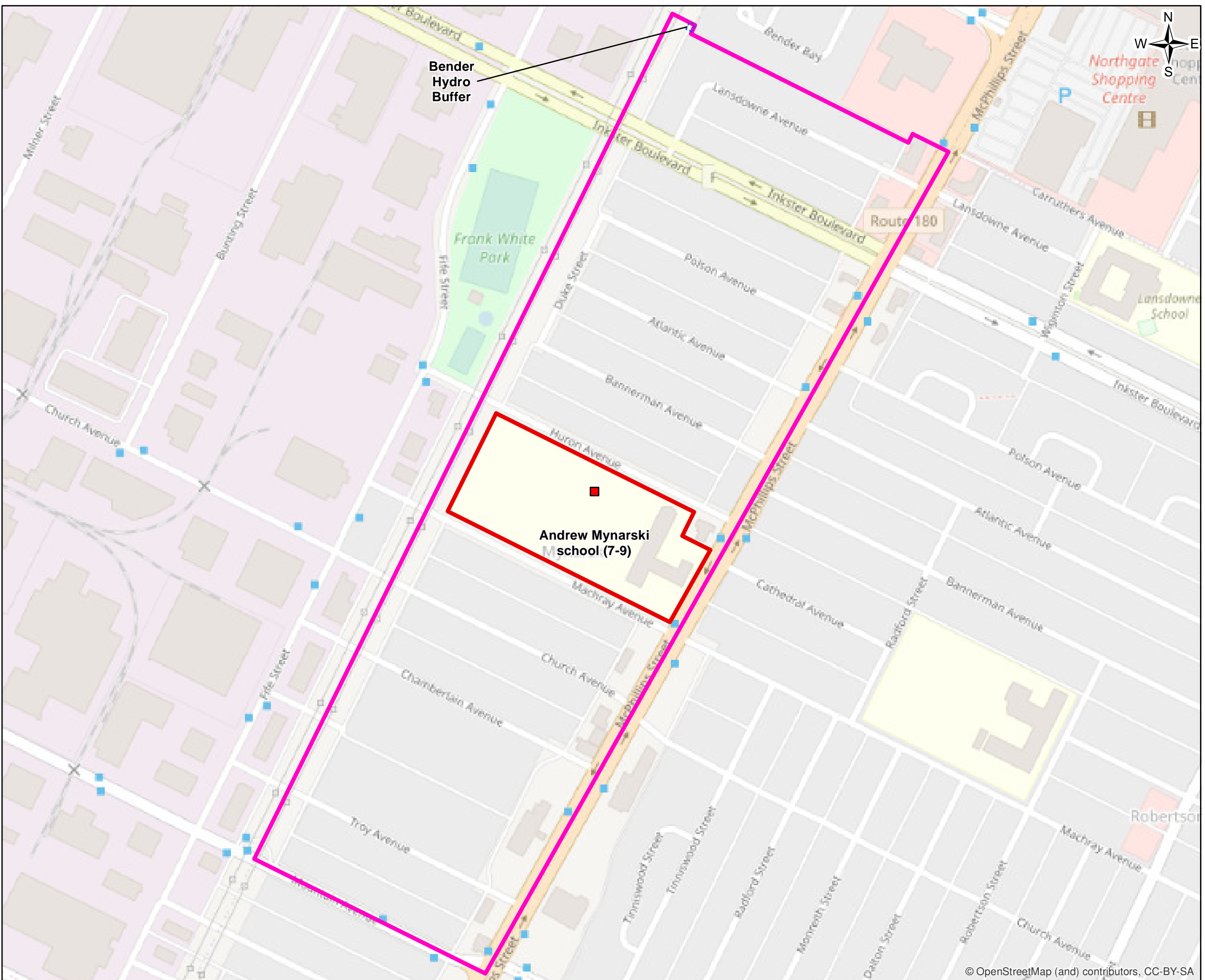
Notes:
- Kavanagh park is located in both Dufresne and Mission Industrial neighborhoods.



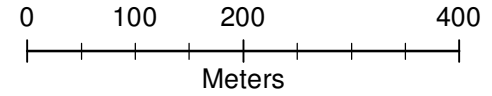
Mission Industrial
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.21

Document Path: C:\Z_Drive\10-12553\MXD\F_22_Mynarski.mxd

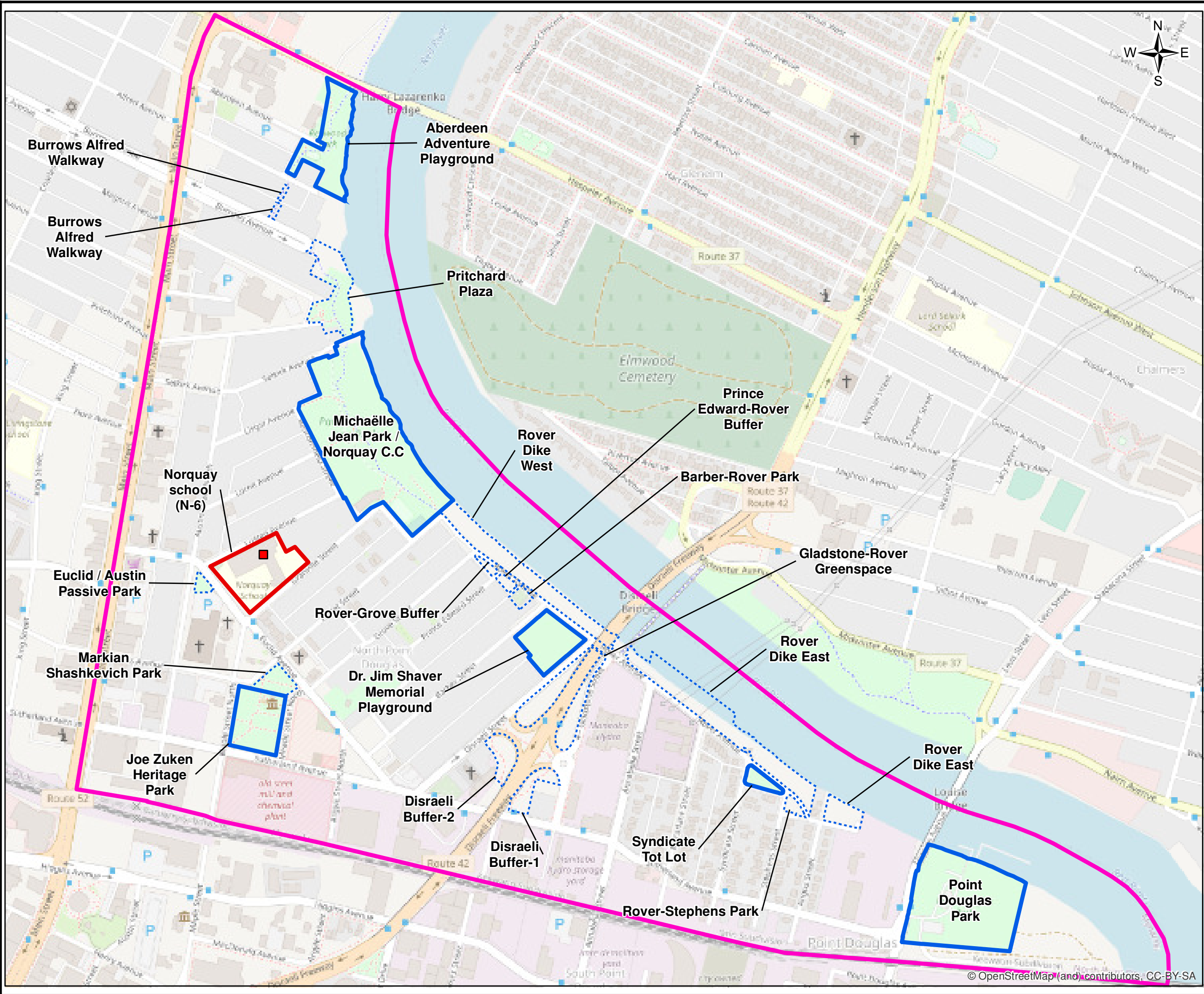


- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - Neighborhood of Interest



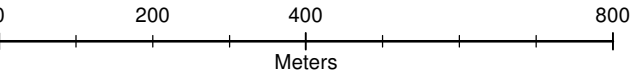
Mynarski
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.22



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



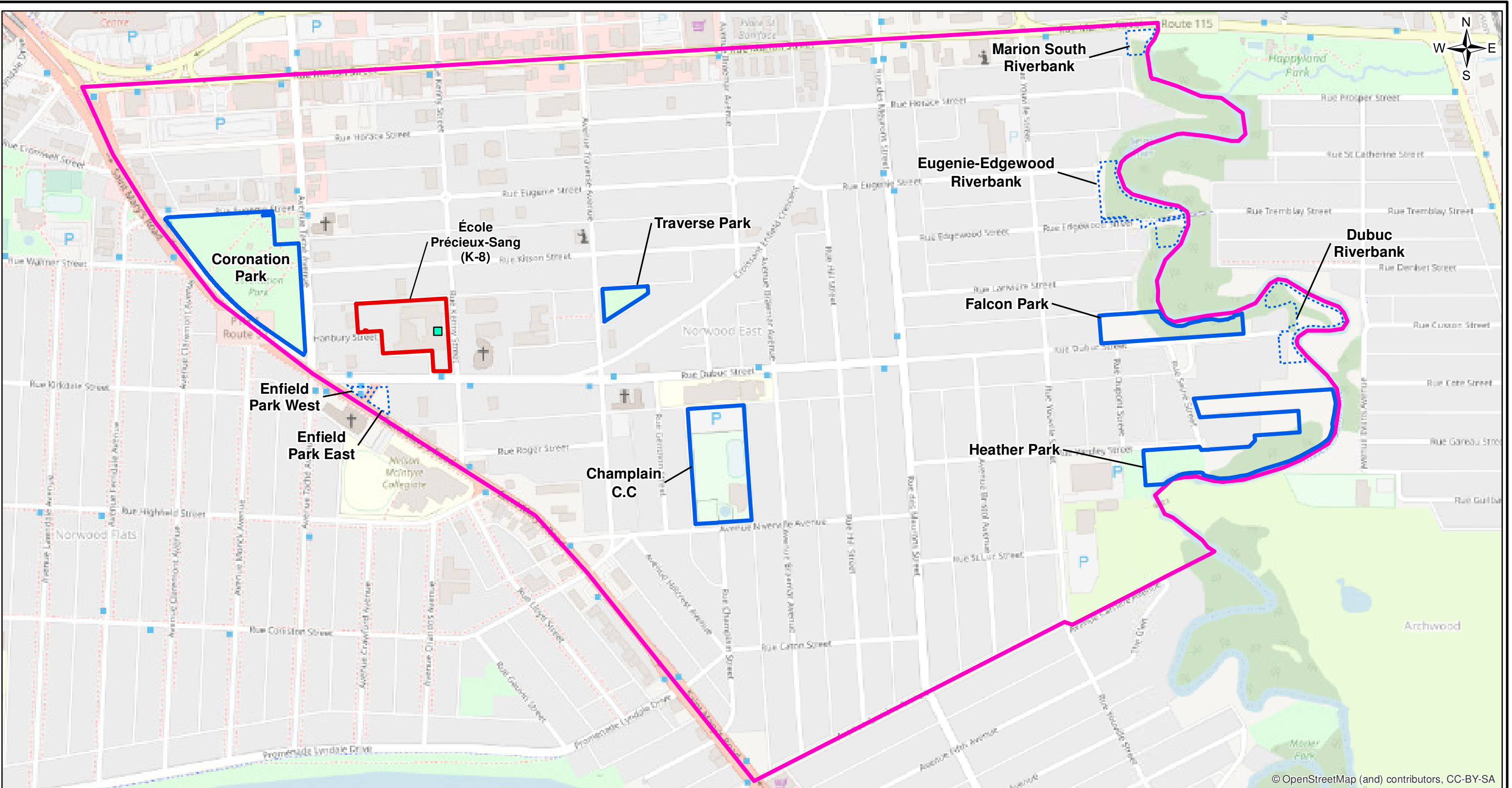
North Point Douglas
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

PARSONS

A.23

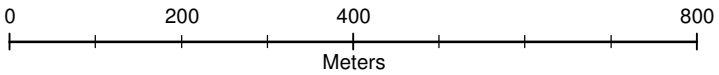
Document Path: C:\Z_Drive\10-12553\MXD\F_24_NorwoodEast.mxd



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LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Division scolaire franco-manitobaine)
- Neighborhood of Interest



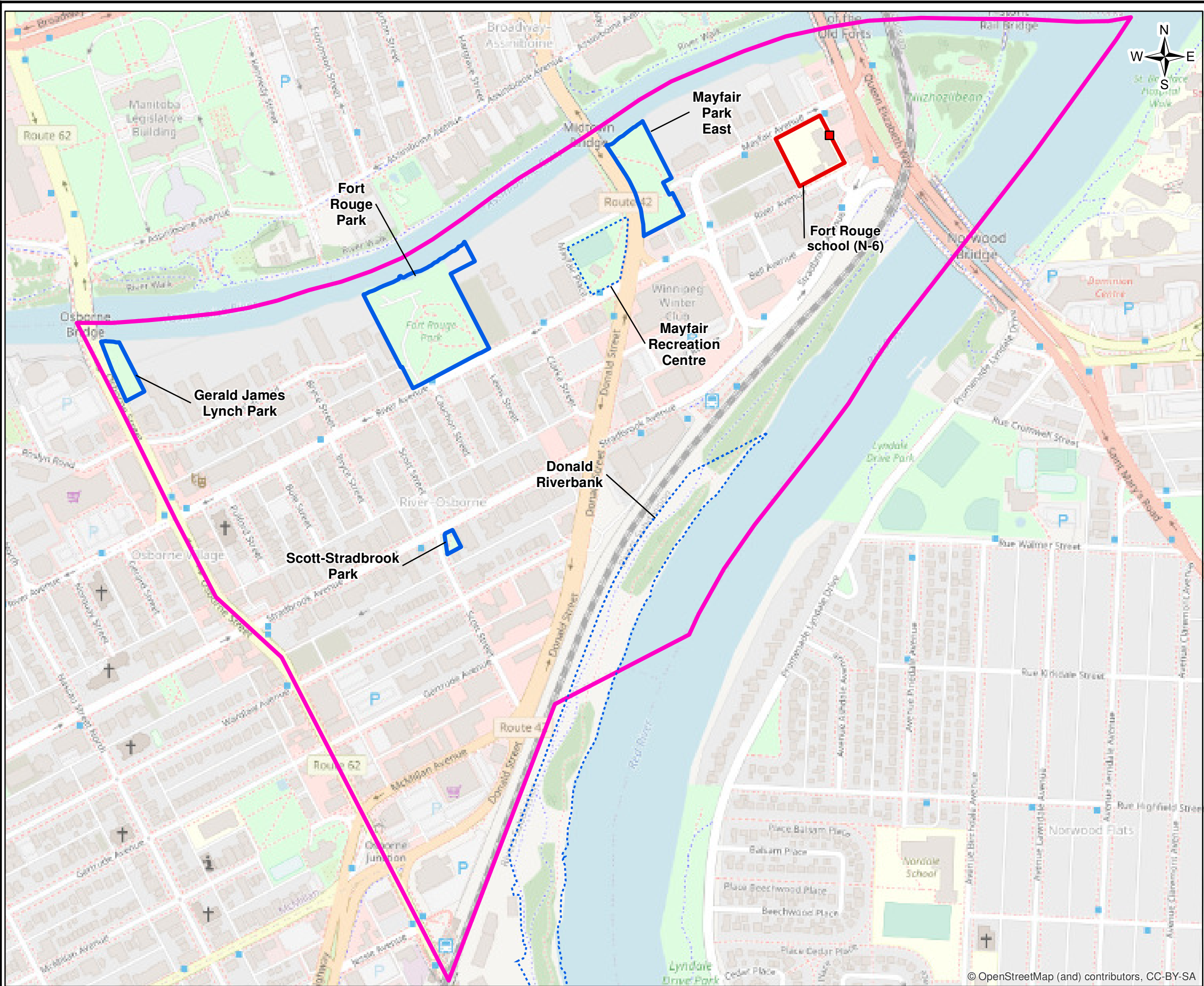
Norwood East

Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

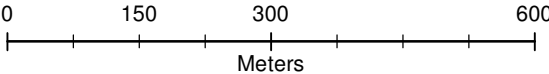
PARSONS

Drawing No.:
A.24



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



River-Obborne

Lead in Soil Testing Program
Winnipeg, Manitoba

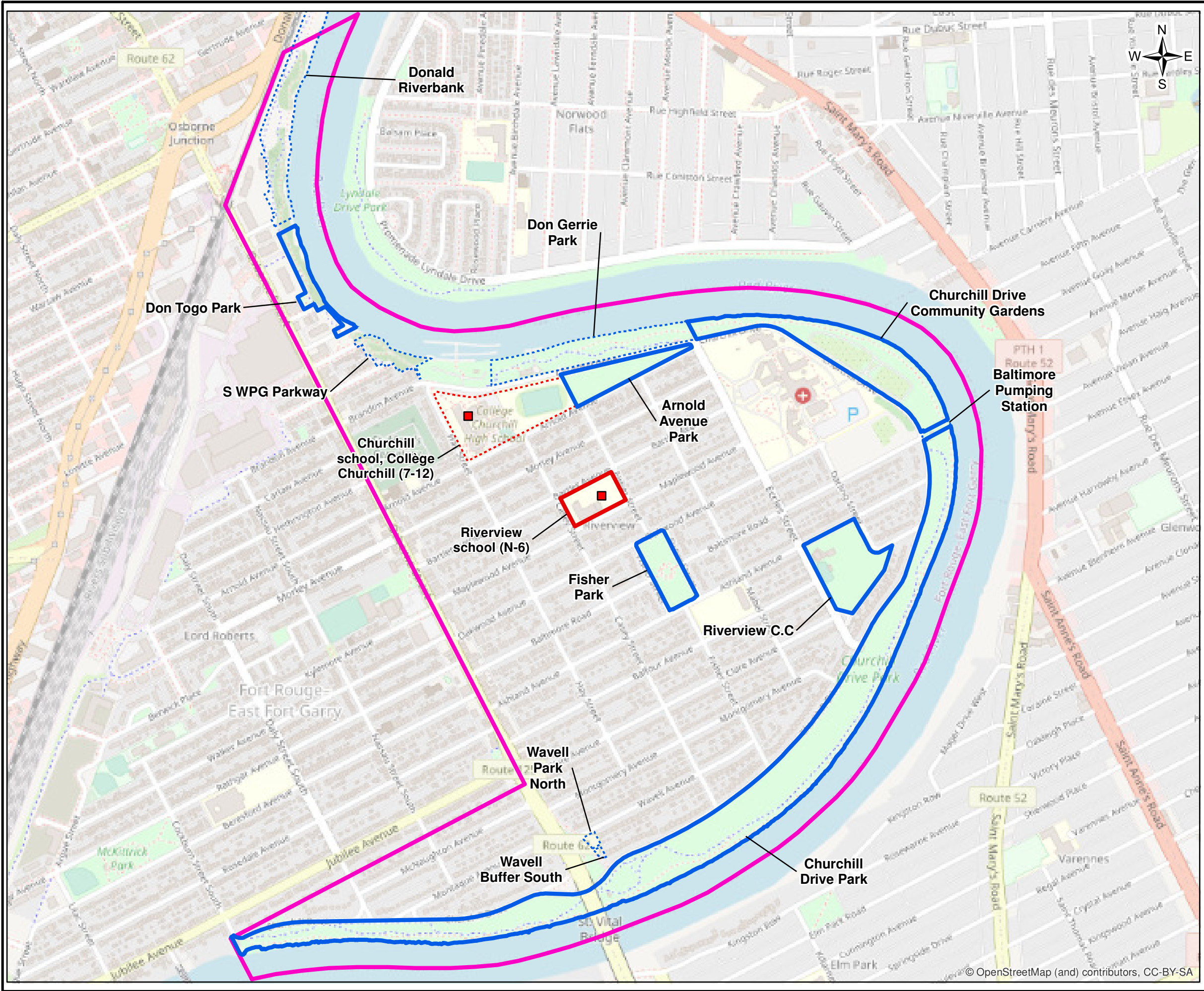
Drawn By: SLD Ref: 10-12553

Reviewed By: GSK Date: 13-Jan-2022

Drawing No.:

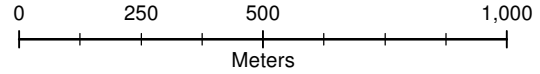
PARSONS

A.25



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



Riverview
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD

Reviewed By: GSK

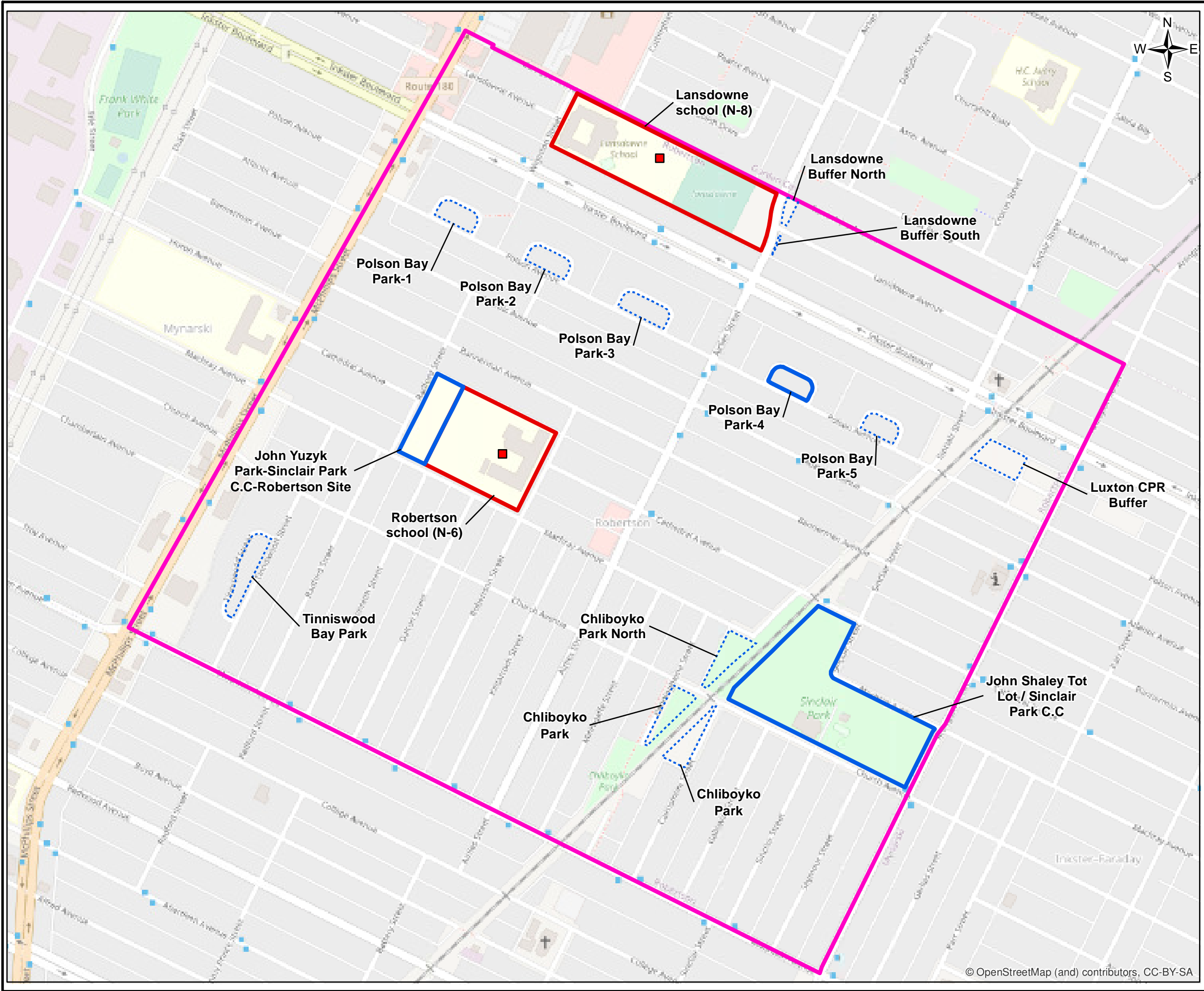
Ref: 10-12553

Date: 13-Jan-2022

Drawing No.:
A.26

PARSONS

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LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest

0150300600

Meters

Robertson

Lead in Soil Testing Program

Winnipeg, Manitoba

Drawn By: SLD

Reviewed By: GSK

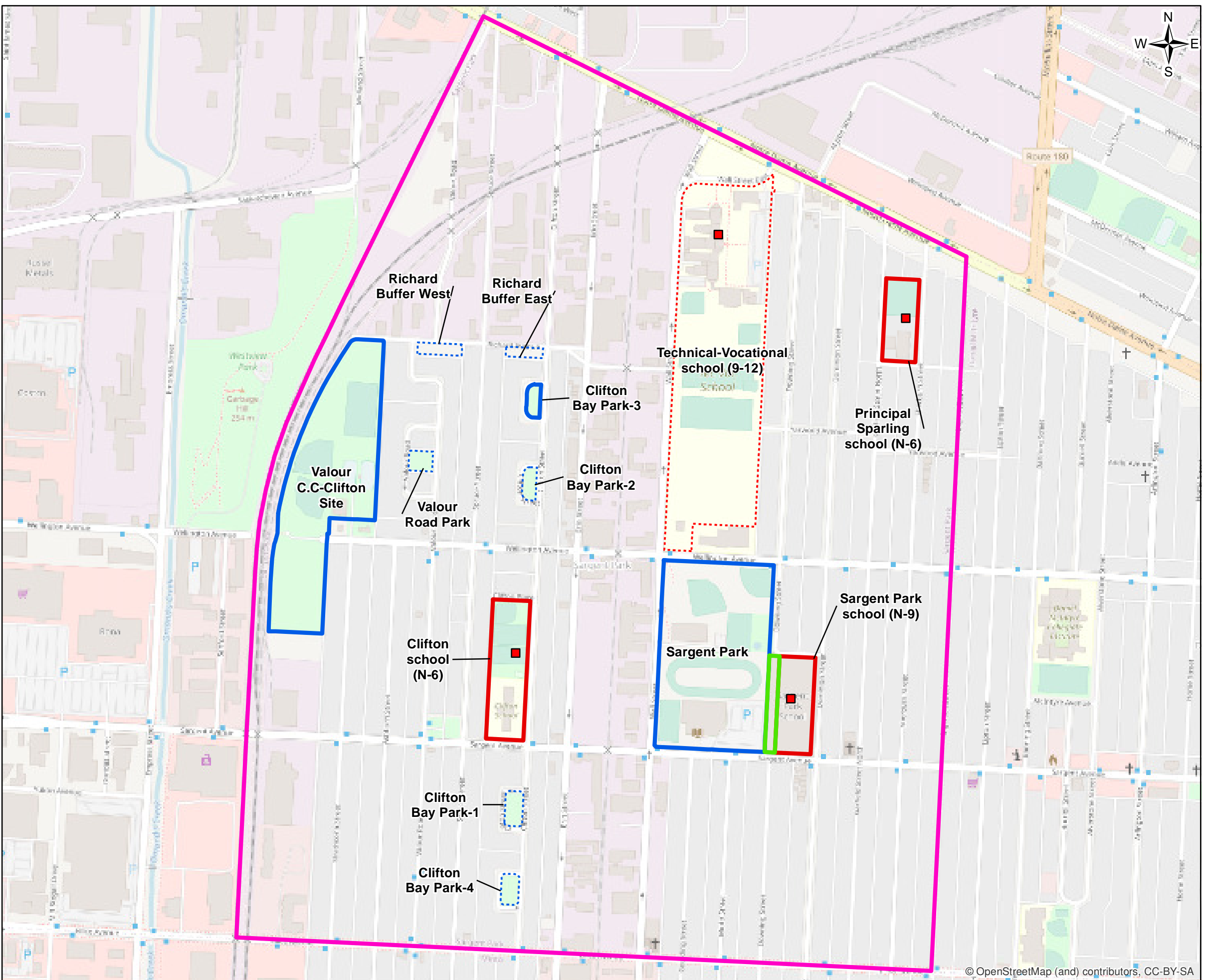
Ref: 10-12553

Date: 13-Jan-2022

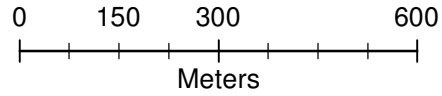
Drawing No.:

PARSONS

A.27



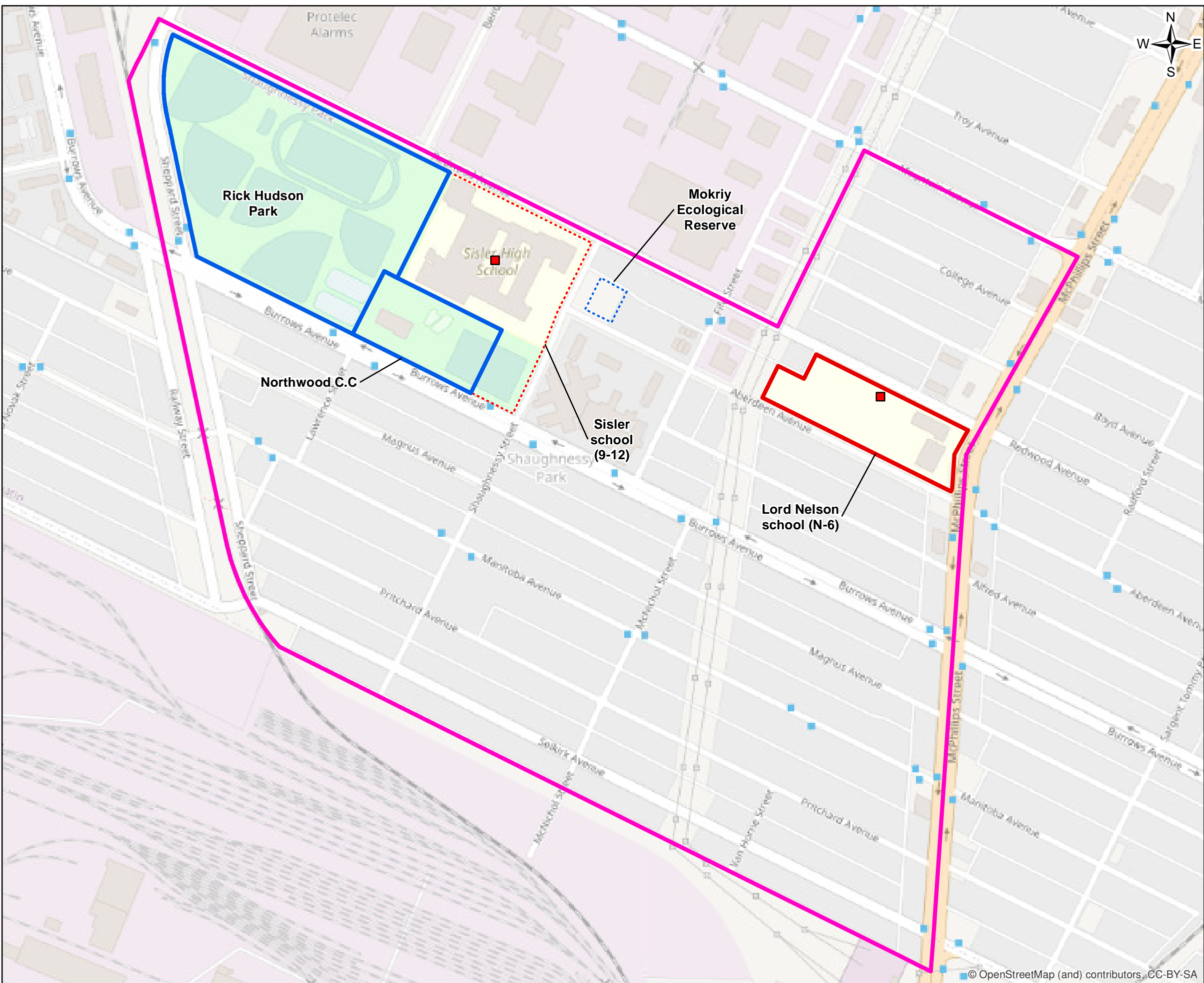
- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - City Property Used by School: Sampled
 - Neighborhood of Interest



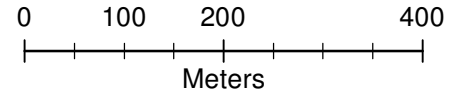
Sargent Park
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.28

Document Path: C:\Z_Drive\10-12553\MXD\F_29_ShaughnessyPark.mxd



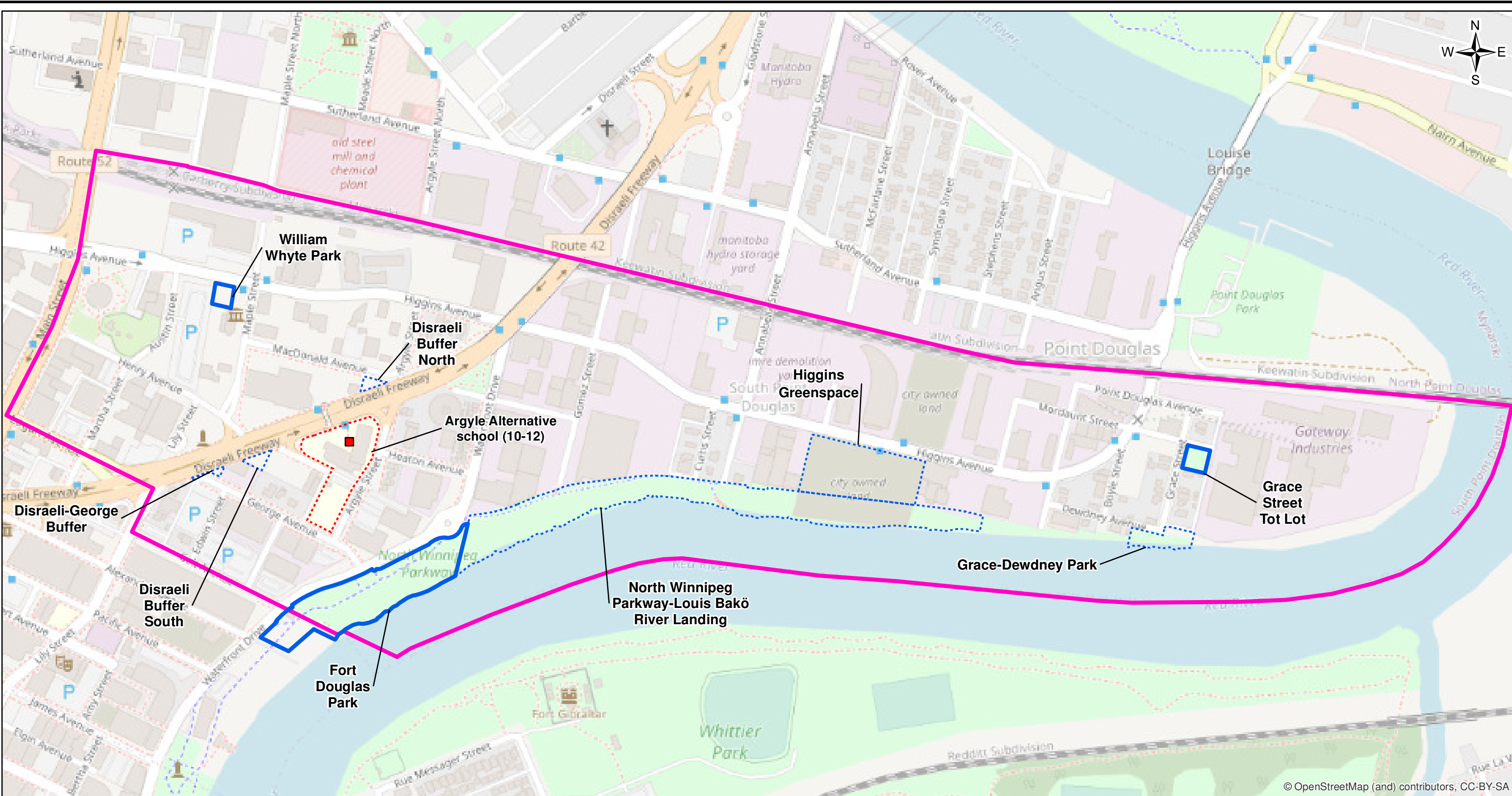
- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - Neighborhood of Interest



Shaughnessy Park
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS	Drawing No.: A.29	

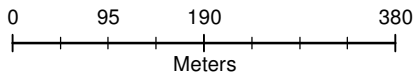
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LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



South Point Douglas

Lead in Soil Testing Program
Winnipeg, Manitoba

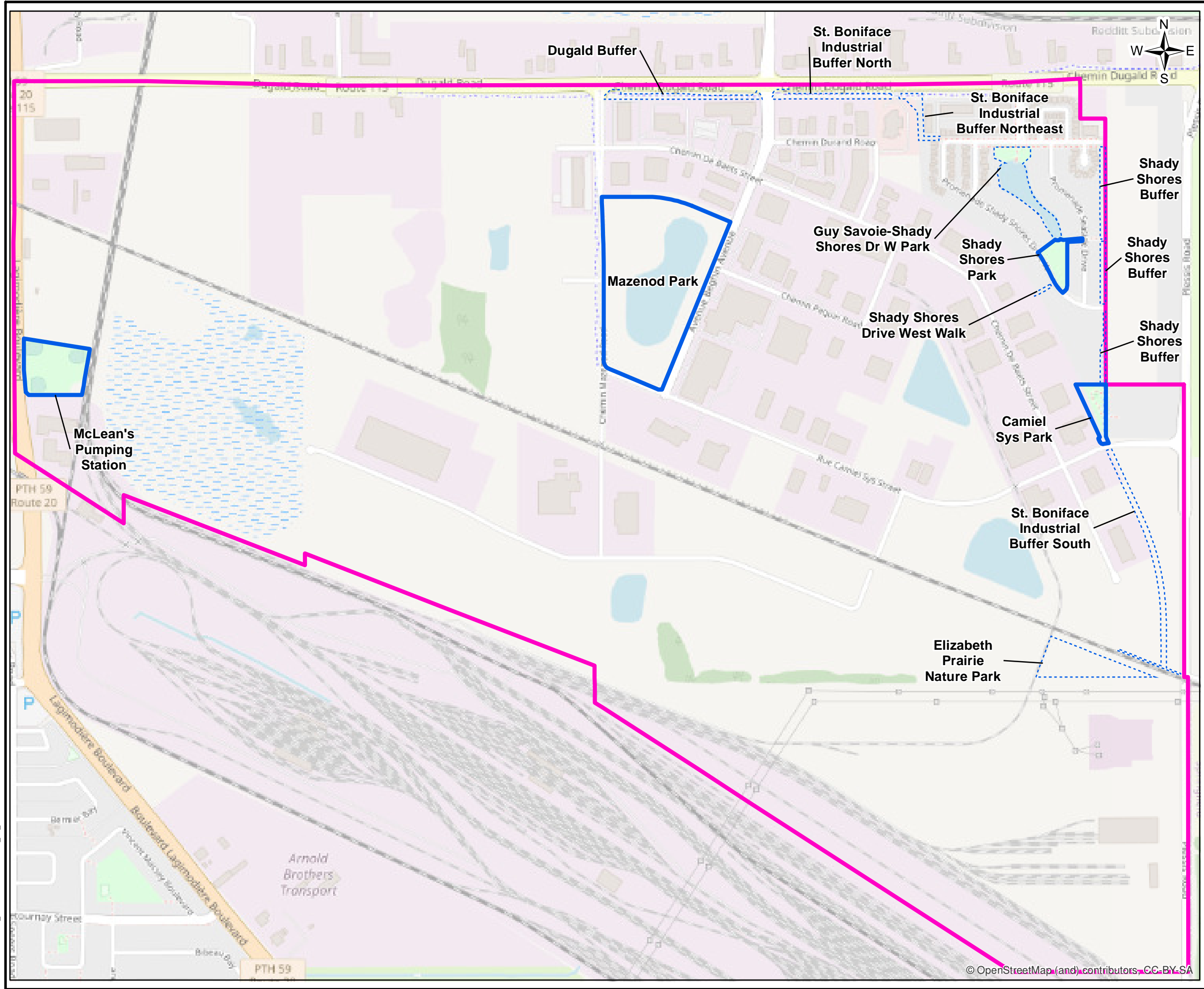
Drawn By: SLD Ref: 10-12553

Reviewed By: GSK Date: 13-Jan-2022

PARSONS

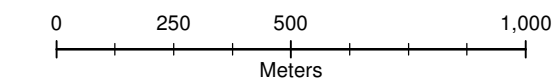
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A.30

Document Path: C:\Z_Drive\10-12553 MXD\F_31_StBonifaceIndustrial.mxd



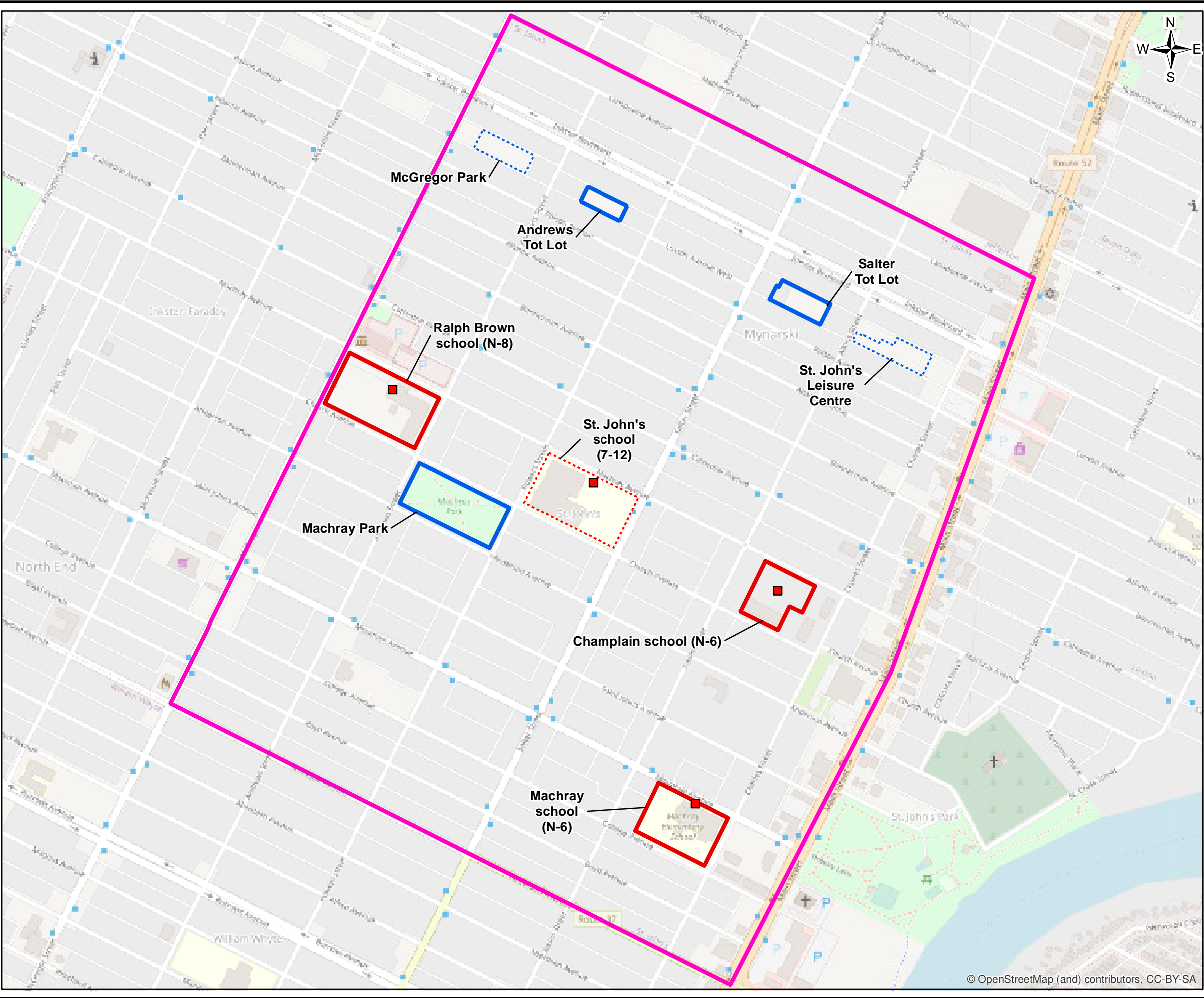
LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- Neighborhood of Interest



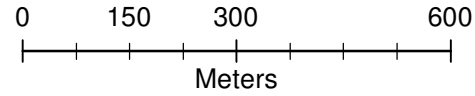
St. Boniface Industrial
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.31



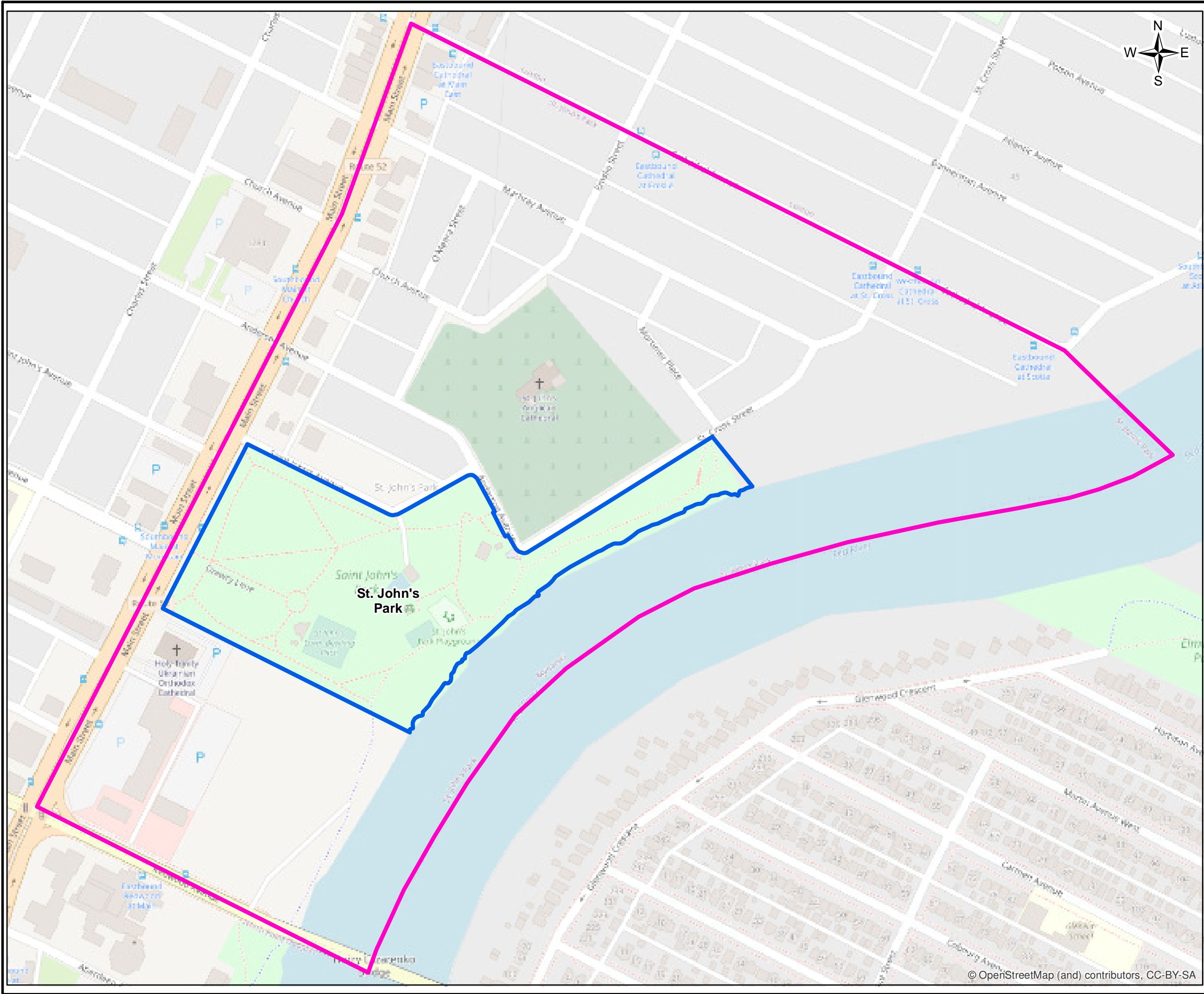
LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest






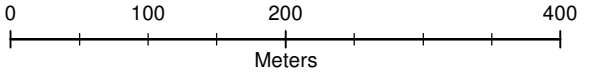
St. John's
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.32



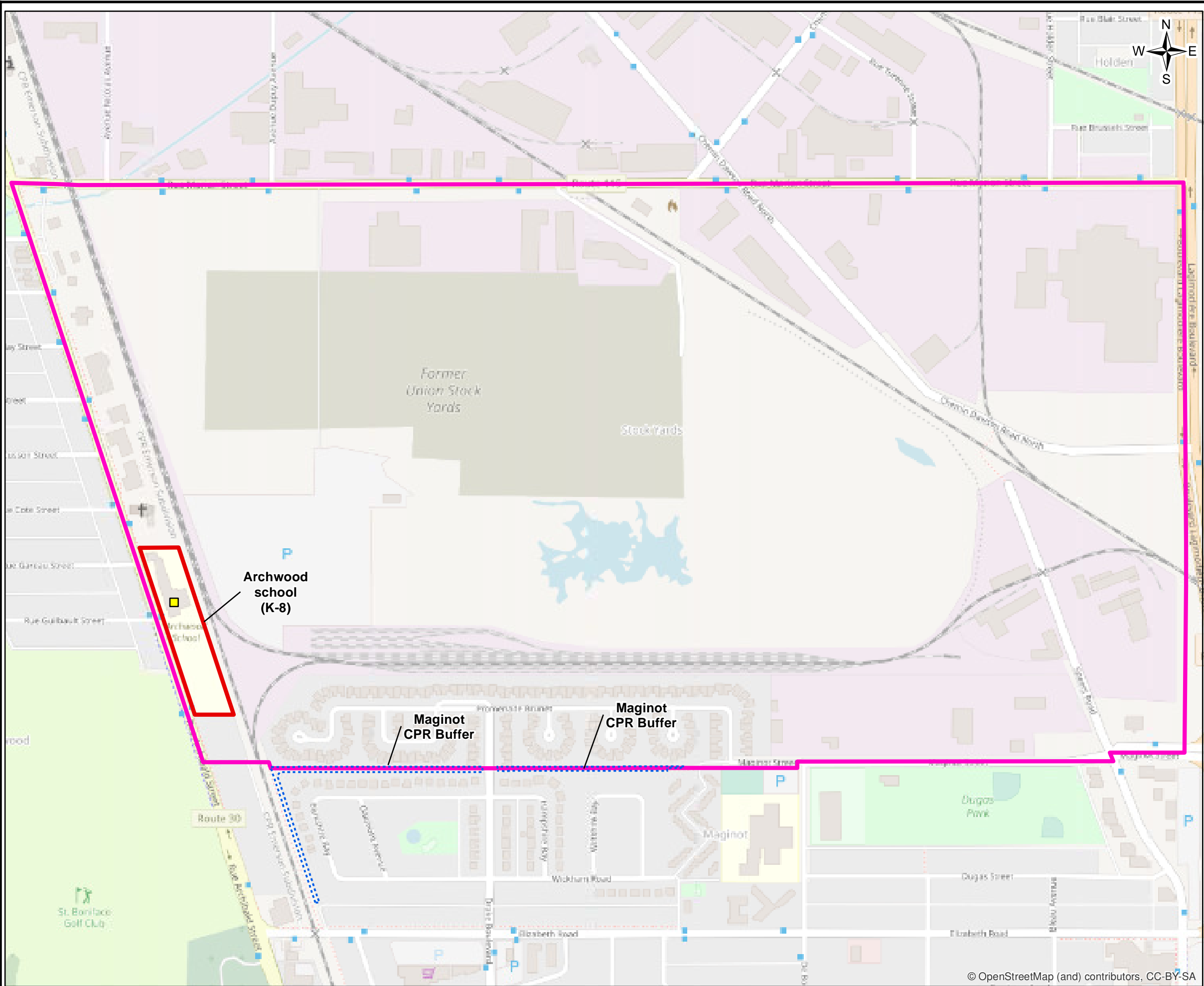
LEGEND

-  Park: Sampled
-  Park: Not Sampled
-  Neighborhood of Interest



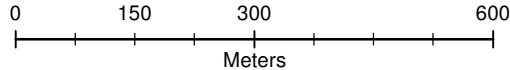
St. John's Park
Lead in Soil Testing Program
Winnipeg, Manitoba

	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.33



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Louis Riel School Division)
- Neighborhood of Interest



Stock Yards
Lead in Soil Testing Program
Winnipeg, Manitoba

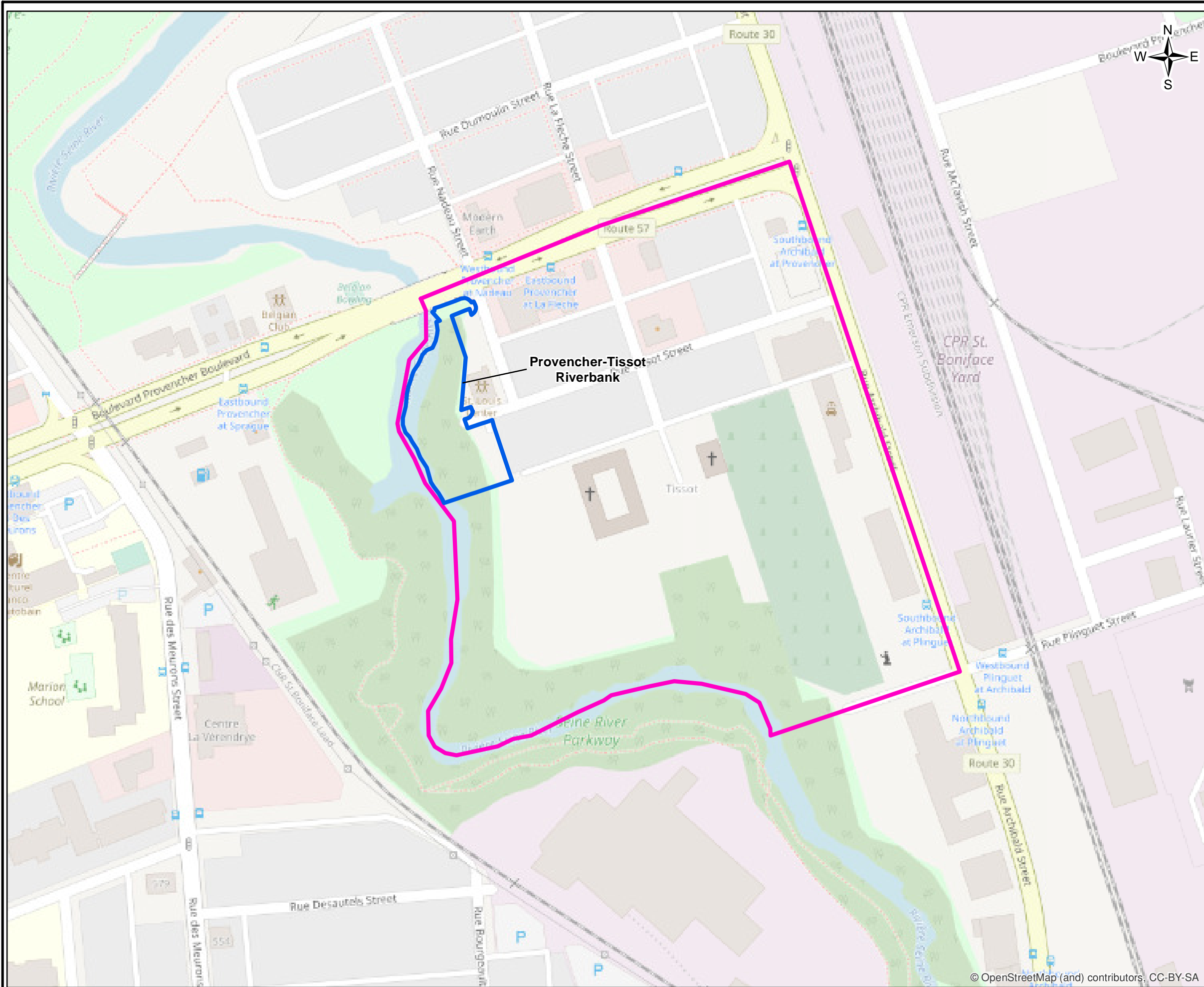
Drawn By: SLD
Reviewed By: GSK

Ref: 10-12553

Date: 13-Jan-2022

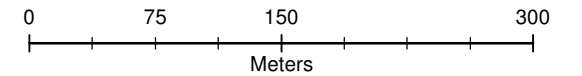
PARSONS

A.34



LEGEND

- Park: Sampled
- Park: Not Sampled
- Neighborhood of Interest

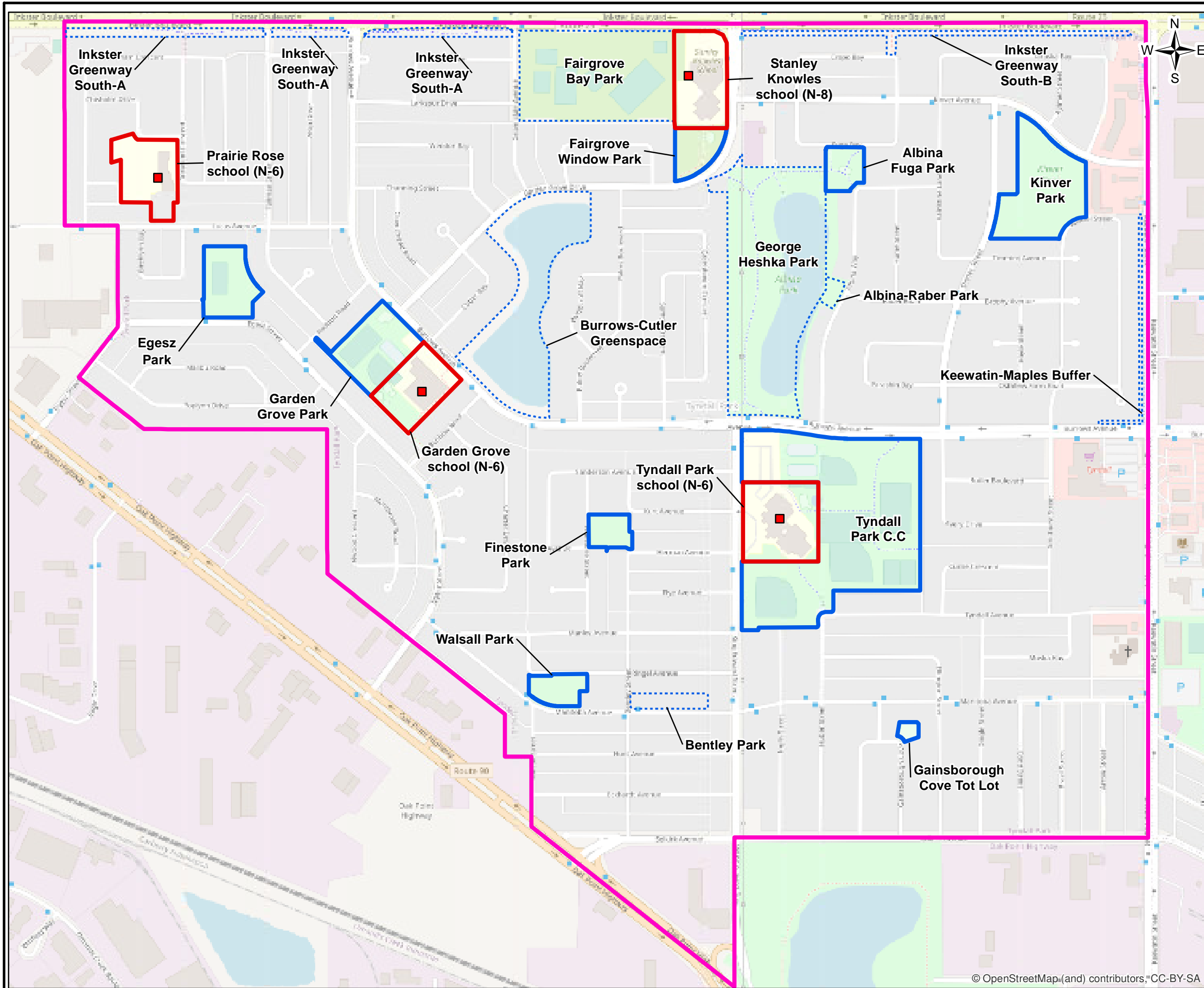


Tissot
Lead in Soil Testing Program
Winnipeg, Manitoba

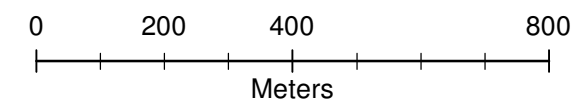
Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022

PARSONS

Drawing No.:
A.35



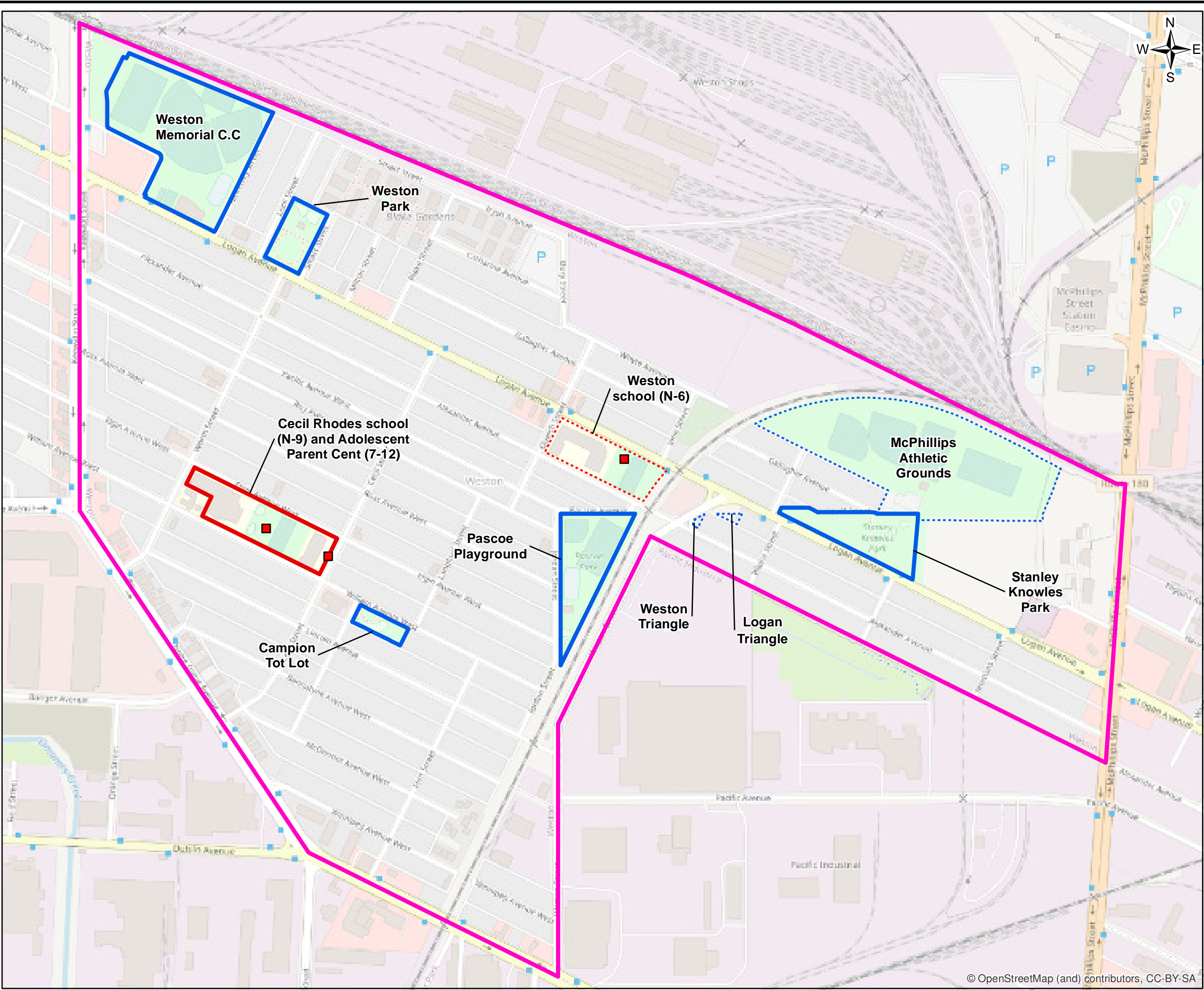
- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - Neighborhood of Interest



Tyndall Park
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022
PARSONS	Drawing No.: A.36

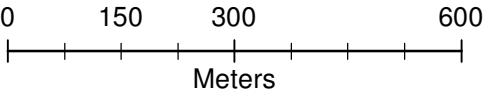
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LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Winnipeg School Division)
- Neighborhood of Interest



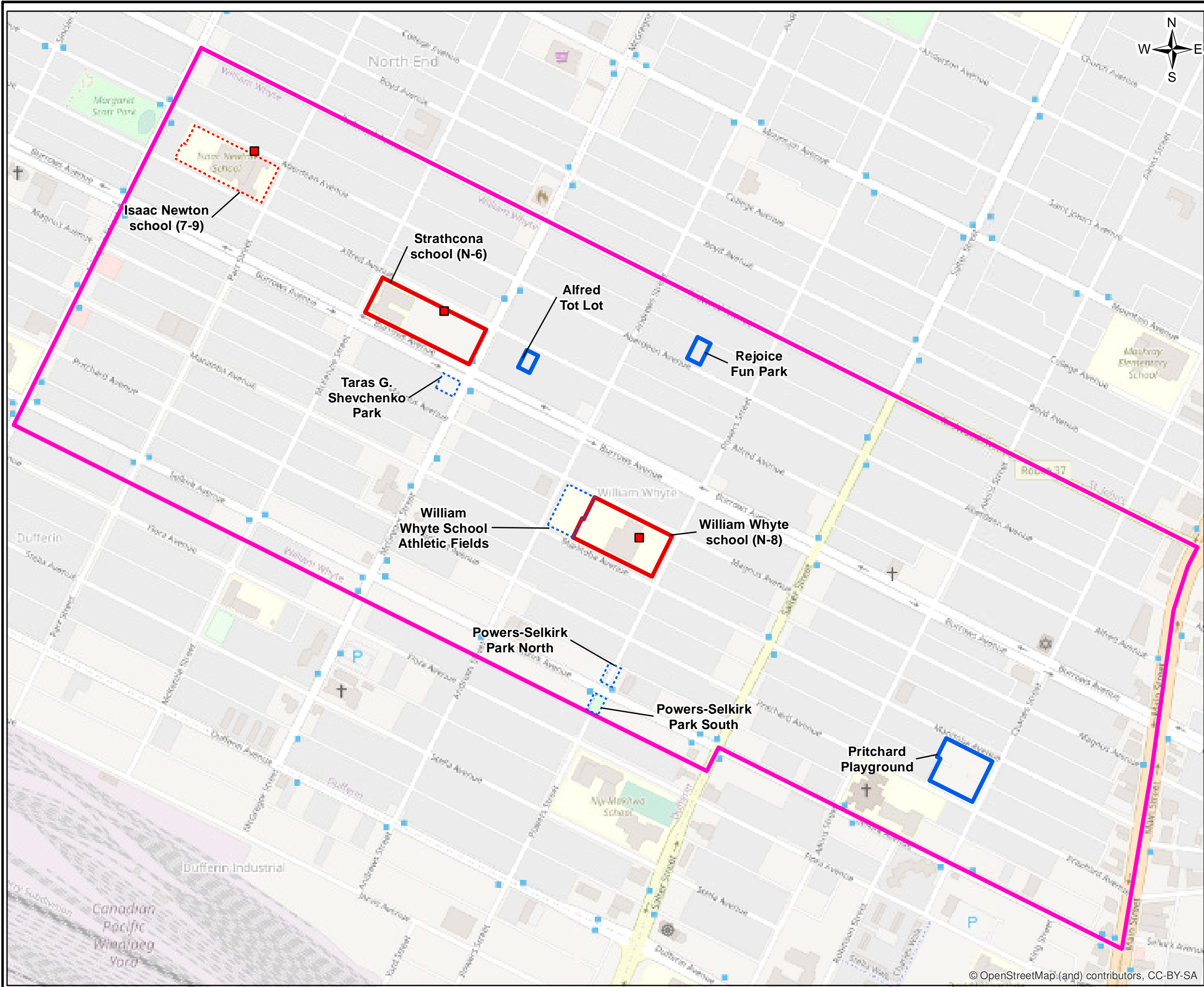
Weston
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD	Ref: 10-12553
Reviewed By: GSK	Date: 13-Jan-2022
Drawing No.:	

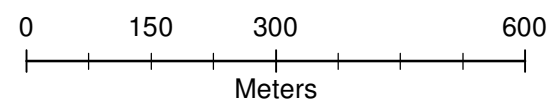
PARSONS

A.37

Document Path: C:\Z_Drive\10-12553\MXD\F_38_WilliamWhyte.mxd



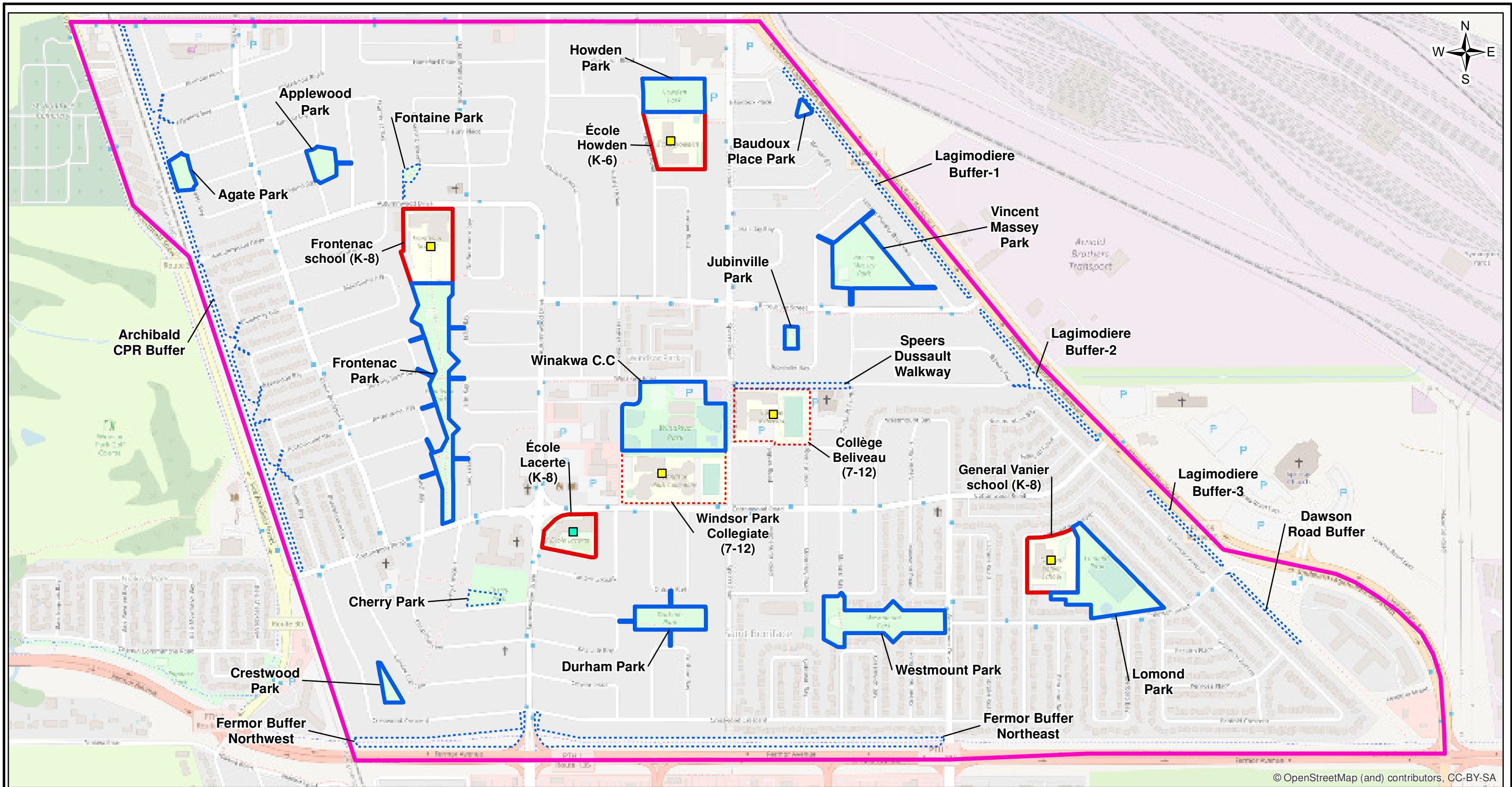
- LEGEND**
- Park: Sampled
 - Park: Not Sampled
 - School: Sampled
 - School: Not Sampled
 - School (Winnipeg School Division)
 - Neighborhood of Interest



William Whyte
Lead in Soil Testing Program
Winnipeg, Manitoba

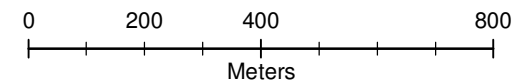
	Drawn By: SLD	Ref: 10-12553
	Reviewed By: GSK	Date: 13-Jan-2022
PARSONS		Drawing No.: A.38

Document Path: C:\Z_Drive\10-12553\MXD\F_39_WindsorPark.mxd



LEGEND

- Park: Sampled
- Park: Not Sampled
- School: Sampled
- School: Not Sampled
- School (Division scolaire franco-manitobaine)
- School (Louis Riel School Division)
- Neighborhood of Interest



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Windsor Park

**Lead in Soil Testing Program
Winnipeg, Manitoba**

Drawn By: SLD Ref: 10-12553

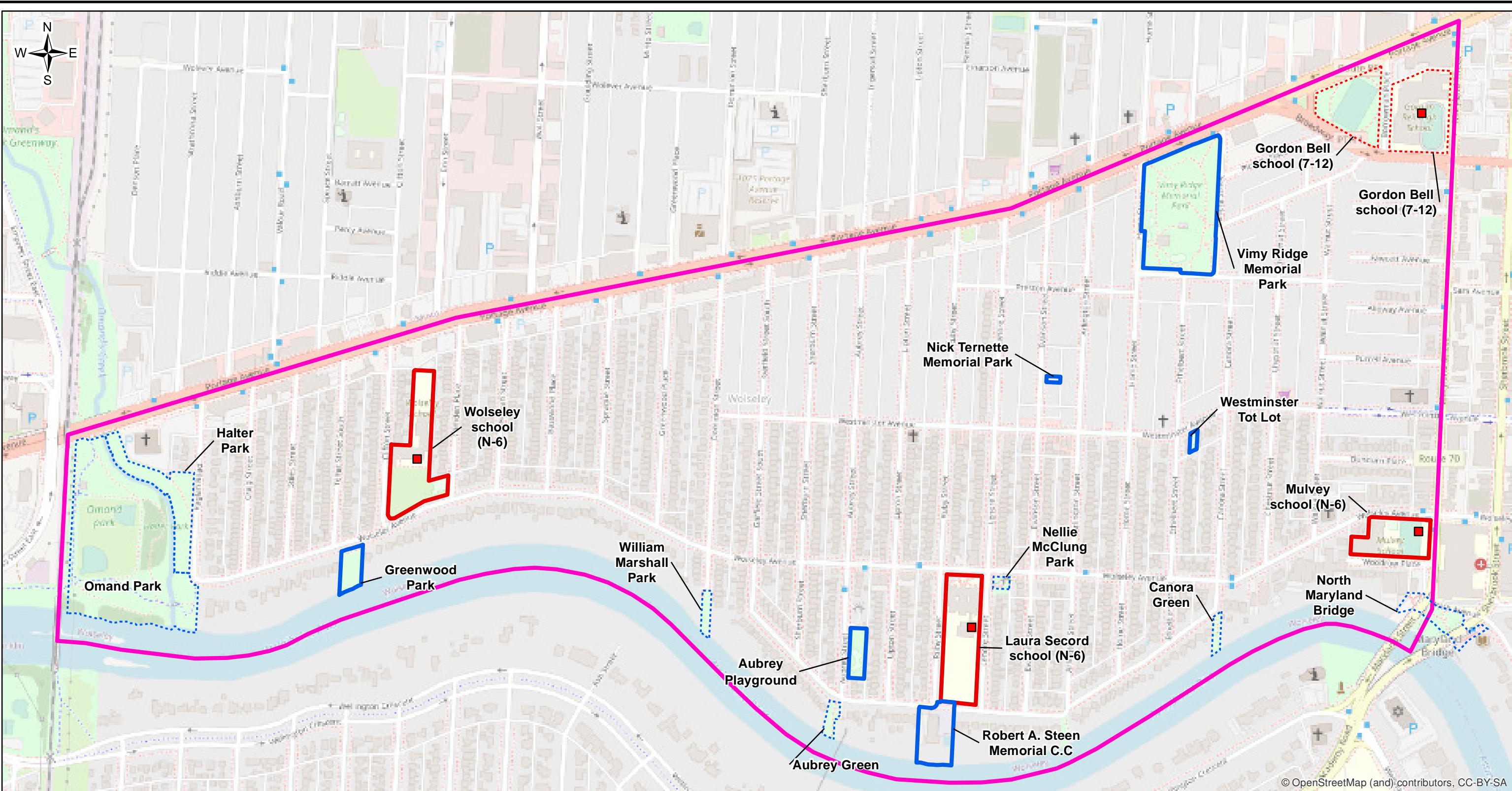
Reviewed By: GSK Date: 13-Jan-2022

Drawing No.:

PARSONS

A.39

Document Path: C:\Z_Drive\10-12553 MXD\F_40_Wolseley.mxd



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LEGEND

Park: Sampled

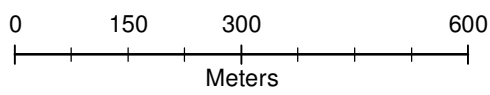
Park: Not Sampled

School: Sampled

School: Not Sampled

School (Winnipeg School Division)

Neighborhood of Interest



Wolseley
Lead in Soil Testing Program
Winnipeg, Manitoba

Drawn By: SLD
Reviewed By: GSK

Ref: 10-12553
Date: 13-Jan-2022
Drawing No.:
A.40

PARSONS

APPENDIX B
PHOTOGRAPHS

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

<p>1 12-Oct-2021 Latitude: 49.90209 Longitude: -97.07203 Direction:</p> <p>Comment: Clyde Road Park</p>	
<p>2 12-Oct-2021 Latitude: 49.90115 Longitude: -97.07739 Direction:</p> <p>Comment: McCalman Parkette East</p>	
<p>3 12-Oct-2021 Latitude: 49.904 Longitude: -97.07428 Direction:</p> <p>Comment: Hap Hopkinson Memorial Park</p>	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	12-Oct-2021	Latitude: 49.90288 Longitude: -97.08569 Direction:
Comment: Sir Sam Steele Park		






Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:




1	13-Oct-2021	Latitude: 49.90466 Longitude: -97.07947 Direction: Comment: East Elmwood Park	
2	13-Oct-2021	Latitude: 49.90397 Longitude: -97.09304 Direction: Comment: St. Gerard School	
3	13-Oct-2021	Latitude: 49.90444 Longitude: -97.08239 Direction: Comment: Kent Road School	

Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

1	14-Oct-2021	Latitude: 49.91557 Longitude: -97.12398 Direction: Comment: Hespeler Park	
2	14-Oct-2021	Latitude: 49.87898 Longitude: -97.14082 Direction: Comment: Elmwood Park	
3	14-Oct-2021	Latitude: 49.90962 Longitude: -97.12056 Direction: Comment: Talbot Tot Lot	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	14-Oct-2021	Latitude: 49.91618 Longitude: -97.11759 Direction:
Comment: Glenelm School		



5	14-Oct-2021	Latitude: 49.91013 Longitude: -97.11338 Direction:
Comment: Elmwood Winter Club		





Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

1	15-Oct-2021	Latitude: 49.90519 Longitude: -97.10182 Direction: Comment: Abdo & Samira El Tassi Park	
2	15-Oct-2021	Latitude: 49.91263 Longitude: -97.11337 Direction: Comment: Lord Selkirk School	
3	15-Oct-2021	Latitude: 49.87898 Longitude: -97.14082 Direction: Comment: Clara Hughes Recreation Park	

Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	15-Oct-2021	Latitude: 49.91274 Longitude: -97.09801 Direction:
Comment: East End Cultural & Leisure Centre		



5	15-Oct-2021	Latitude: 49.90891 Longitude: -97.10079 Direction:
Comment: Roy Davis Memorial Park		



Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

1	15-Oct-2021	Latitude: 49.90626 Longitude: -97.10138 Direction:
Comment: River Elm School		






Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

1	18-Oct-2021	Latitude: 49.88411 Longitude: -97.13346 Direction: South Comment: Fort Rouge School Yard	
2	18-Oct-2021	Latitude: 49.88143 Longitude: -97.14122 Direction: West Comment: Fort Rouge Park	
3	18-Oct-2021	Latitude: 49.87898 Longitude: -97.14082 Direction: South Comment: Scott-Stradbrook Park	

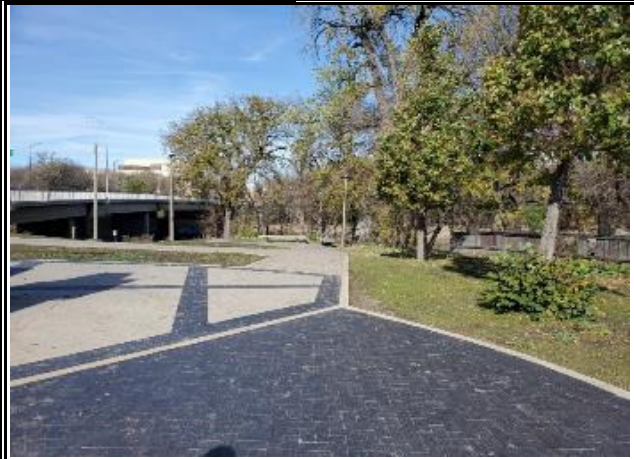
Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

4	18-Oct-2021	Latitude: 49.88098 Longitude: -97.1476 Direction: North Comment: Gerald James Lynch Park
---	-------------	---



5	18-Oct-2021	Latitude: 49.88327 Longitude: -97.13615 Direction: West Comment: Mayfair Park East
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Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

1	19-Oct-2021	Latitude: 49.86279 Longitude: -97.13834 Direction: West Comment: Nassau Square Park
2	19-Oct-2021	Latitude: 49.86437 Longitude: -97.14244 Direction: West Comment: Will and Jeanine Richard Memorial Park
3	19-Oct-2021	Latitude: 49.86755 Longitude: -97.1379 Direction: West Comment: Brandon Avenue Tot Lot



Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

4	19-Oct-2021	Latitude: 49.85989 Longitude: -97.14464 Direction: West Comment: Lord Roberts C.C	
5	19-Oct-2021	Latitude: 49.86038 Longitude: -97.14251 Direction: West Comment: Lord Robert's C.C	
6	19-Oct-2021	Latitude: 49.85679 Longitude: -97.14591 Direction: East Comment: McKittrick Park	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
-------	----------

PARSONS

7	19-Oct-2021	Latitude: 49.85473 Longitude: -97.14881 Direction: West
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Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

<p>1 20-Oct-2021 Latitude: 49.86424 Longitude: -97.13404 Direction: South</p> <p>Comment: Fort Rouge Leisure Centre</p>	
<p>2 20-Oct-2021 Latitude: 49.85913 Longitude: -97.14016 Direction: East</p> <p>Comment: Lord Roberts School</p>	
<p>3 20-Oct-2021 Latitude: 49.86373 Longitude: -97.12397 Direction: North</p> <p>Comment: Fisher Park</p>	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	20-Oct-2021	Latitude: 49.87007 Longitude: -97.1366 Direction: West Comment: Don Togo Park
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5	20-Oct-2021	Latitude: 49.86341 Longitude: -97.11817 Direction: East Comment: Riverview C.C
---	-------------	---



6	20-Oct-2021	Latitude: 49.86608 Longitude: -97.12715 Direction: East Comment: Riverview School
---	-------------	--






Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

1	21-Oct-2021	Latitude: 49.86856 Longitude: -97.12663 Direction: North Comment: Arnold Avenue Park	
2	21-Oct-2021	Latitude: 49.87014 Longitude: -97.1196 Direction: East Comment: Churchill Drive Community Gardens	
3	21-Oct-2021	Latitude: 49.86277 Longitude: -97.11636 Direction: South Comment: Churchill Drive Park	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	21-Oct-2021	Latitude: 49.8572 Longitude: -97.12616 Direction: East Comment: Churchill Drive Park
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5	21-Oct-2021	Latitude: 49.88693 Longitude: -97.12264 Direction: South Comment: La Verendrye Park
---	-------------	--



6	21-Oct-2021	Latitude: 49.89225 Longitude: -97.11833 Direction: North Comment: Provencher Park/ Notre Dame C.C
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Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:



1	22-Oct-2021	Latitude: 49.89082 Longitude: -97.1144 Direction: East Comment: École Provencher	
2	22-Oct-2021	Latitude: 49.88414 Longitude: -97.11525 Direction: South Comment: Parc Club Optimist - St. Boniface - Optimist Club Park	
3	22-Oct-2021	Latitude: 49.88439 Longitude: -97.10464 Direction: South Comment: Kavanagh Park	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

<p>4 22-Oct-2021 Latitude: 49.88541 Longitude: -97.10307 Direction: West .</p> <p>Comment: Kavanagh Park</p>	
<p>5 22-Oct-2021 Latitude: 49.89485 Longitude: -97.10933 Direction: South .</p> <p>Comment: Provencher-Tissot Park</p>	
<p>6 22-Oct-2021 Latitude: 49.88359 Longitude: -97.11333 Direction: North .</p> <p>Comment: École Henri-Bergeron</p>	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

7	22-Oct-2021	Latitude: 49.89193 Longitude: -97.11441 Direction: North Comment: Marion School
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Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:


1	25-Oct-2021	Latitude: 49.88384 Longitude: -97.07386 Direction: South Comment: Lambert Park	
2	25-Oct-2021	Latitude: 49.89738 Longitude: -97.10113 Direction: North Comment: Mission Park	
3	25-Oct-2021	Latitude: 49.88585 Longitude: -97.10378 Direction: West Comment: Kavanagh Park	

Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

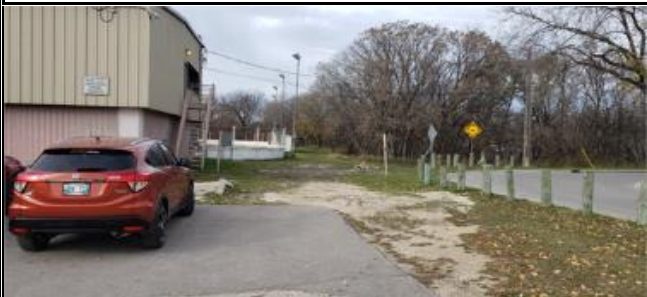

4	25-Oct-2021	Latitude: 49.92305 Longitude: -97.11334 Direction: North . Comment: Dr. Louis Slotin Park	
5	25-Oct-2021	Latitude: 49.9247 Longitude: -97.11813 Direction: North . Comment: Luxton Community Centre	
6	25-Oct-2021	Latitude: 49.92428 Longitude: -97.11908 Direction: North . Comment: Luxton School	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:


1	26-Oct-2021	Latitude: 49.88111 Longitude: -97.10144 Direction: North Comment: Happyland Park	
2	26-Oct-2021	Latitude: 49.875838 Longitude: -97.100258 Direction: West Comment: Archwood C.C	
3	26-Oct-2021	Latitude: 49.87862 Longitude: -97.10305 Direction: East Deniset Park Comment:	

Winnipeg, MB	PHOTO LOG
Client:	Manitoba Environment, Climate and Parks

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	26-Oct-2021	Latitude: 49.87531 Longitude: -97.11382 Direction: North Champlain C.C Comment:	
5	26-Oct-2021	Latitude: 49.87811 Longitude: -97.12334 Direction: West Comment: Coronation Park	
6	26-Oct-2021	Latitude: 49.87808 Longitude: -97.11671 Direction: East Traverse Park Comment:	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

7	26-Oct-2021	Latitude: 49.87533 Longitude: -97.09457 Direction: South Archwood School Comment:
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Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

<p>1 27-Oct-2021 Latitude: 49.86908 Longitude: -97.07017 Direction: North .</p> <p>Comment: Baudoux Place Park</p>	
<p>2 27-Oct-2021 Latitude: 49.86565 Longitude: -97.06723 Direction: West .</p> <p>Comment: Vincent Massey Park</p>	
<p>3 27-Oct-2021 Latitude: 49.86438 Longitude: -97.07022 Direction: North .</p> <p>Comment: Jubinville Park</p>	

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PHOTO: DATE: LOCATION / DIRECTION:

<p>4 27-Oct-2021 Latitude: 49.85892 Longitude: -97.06895 Direction: East</p> <p>Westmount Park Comment:</p>	
<p>5 27-Oct-2021 Latitude: 49.86839 Longitude: -97.08525 Direction: South</p> <p>Applewood Park Comment:</p>	
<p>6 27-Oct-2021 Latitude: 49.87622 Longitude: -97.10483 Direction: East</p> <p>Heather Park Comment:</p>	

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Client:	Manitoba Environment, Climate and Parks
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

7	27-Oct-2021	Latitude: 49.87744 Longitude: -97.10512 Direction: West
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Comment: Falcon Park



8	27-Oct-2021	Latitude: 49.8686 Longitude: -97.08952 Direction: East
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Agate Park
Comment:






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PHOTO: DATE: LOCATION / DIRECTION:

1	28-Oct-2021	Latitude: 49.86936 Longitude: -97.07487 Direction: East Howden Park Comment:	
2	28-Oct-2021	Latitude: 49.86718 Longitude: -97.08206 Direction: South Frontenac School Comment:	
3	28-Oct-2021	Latitude: 49.86572 Longitude: -97.08206 Direction: South Comment: Frontenac Park	

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PHOTO: DATE: LOCATION / DIRECTION:

4	28-Oct-2021	Latitude: 49.86333 Longitude: -97.07385 Direction: South Comment: Winakwa C.C	
5	28-Oct-2021	Latitude: 49.85701 Longitude: -97.08269 Direction: West Comment: Crestwood Park	
6	28-Oct-2021	Latitude: 49.85882 Longitude: -97.07506 Direction: East Durham Park Comment:	

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PHOTO: DATE: LOCATION / DIRECTION:

7	28-Oct-2021	Latitude: 49.86842 Longitude: -97.07472 Direction: East
		École Howden
		Comment:



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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:


1	29-Oct-2021	Latitude: 49.87824 Longitude: -97.07114 Direction: North Comment: McLean's Pumping Station	
2	29-Oct-2021	Latitude: 49.87769 Longitude: -97.03013 Direction: North Comment: Camiel Sys Park	
3	29-Oct-2021	Latitude: 49.86044 Longitude: -97.0784 Direction: North École Lacerte Comment:	

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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

4	29-Oct-2021	Latitude: 49.86064 Longitude: -97.06111 Direction: North . Comment: Lomond Park	
5	29-Oct-2021	Latitude: 49.88088 Longitude: -97.03198 Direction: North . Comment: Shady Shores Park	
6	29-Oct-2021	Latitude: 49.87744 Longitude: -97.12015 Direction: West . Comment: École Précieux-Sang	

Winnipeg, MB		PHOTO LOG
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PHOTO: DATE: LOCATION / DIRECTION:

7	29-Oct-2021	Latitude: 49.85983 Longitude: -97.06183 Direction: West Comment: General Vanier School
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8	29-Oct-2021	Latitude: 49.8812 Longitude: -97.04926 Direction: East Mazenod Park Comment:
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PHOTO: DATE: LOCATION / DIRECTION:

1	01-Nov-2021	Latitude: 49.9083 Longitude: -97.12363 Direction: East Dr. Jim Shaver Memorial Comment: Playground	
2	01-Nov-2021	Latitude: 49.90978 Longitude: -97.1258 Direction: West Comment: Michaëlle Jean Park / Norquay C.C	
3	01-Nov-2021	Latitude: 49.91551 Longitude: -97.12858 Direction: South Aberdeen Adventure Playground Comment:	

Winnipeg, MB		PHOTO LOG
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

<p>4 01-Nov-2021 Latitude: 49.909 Longitude: -97.13073 Direction: South</p> <p>Norquay School Comment:</p>	
<p>5 01-Nov-2021 Latitude: 49.90684 Longitude: -97.13014 Direction: West</p> <p>Joe Zuken Heritage Park Comment:</p>	
<p>6 01-Nov-2021 Latitude: 49.90596 Longitude: -97.11842 Direction: East</p> <p>Syndicate Tot Lot Comment:</p>	

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PHOTO: DATE: LOCATION / DIRECTION:

7	01-Nov-2021	Latitude: 49.90415 Longitude: -97.1142 Direction: East Point Douglas Park Comment:
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PHOTO: DATE: LOCATION / DIRECTION:




1	02-Nov-2021	Latitude: 49.90223 Longitude: -97.11436 Direction: East Grace Street Tot Lot Comment:	 
2	02-Nov-2021	Latitude: 49.90404 Longitude: -97.13149 Direction: South Comment: William Whyte Park	 
3	02-Nov-2021	Latitude: 49.90073 Longitude: -97.12929 Direction: East Fort Douglas Park Comment:	 

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PHOTO: DATE: LOCATION / DIRECTION:

4	02-Nov-2021	Latitude: 49.91175 Longitude: -97.14213 Direction: East North Winnipeg Action Centre Comment:	
5	02-Nov-2021	Latitude: 49.91001 Longitude: -97.1387 Direction: West Comment: Dufferin Tot Lot-Kinsman	
6	02-Nov-2021	Latitude: 49.91141 Longitude: -97.13877 Direction: East Robinson Park Comment:	

Winnipeg, MB		PHOTO LOG
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PHOTO: DATE: LOCATION / DIRECTION:

7	02-Nov-2021	Latitude: 49.91079 Longitude: -97.13516 Direction: West Comment: David Livingstone School
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8	02-Nov-2021	Latitude: 49.9111 Longitude: -97.13657 Direction: North Comment: Turtle Island Community Centre
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PHOTO: DATE: LOCATION / DIRECTION:

1	03-Nov-2021	Latitude: 49.91954 Longitude: -97.12868 Direction: South Comment: St. John's Park	
2	03-Nov-2021	Latitude: 49.92835 Longitude: -97.12878 Direction: West Comment: Salter Tot Lot	
3	03-Nov-2021	Latitude: 49.91441 Longitude: -97.13621 Direction: West Comment: Pritchard Playground	

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PHOTO: DATE: LOCATION / DIRECTION:

4	03-Nov-2021	Latitude: 49.91983 Longitude: -97.14192 Direction: North Comment: Rejoice Fun Park	
5	03-Nov-2021	Latitude: 49.92003 Longitude: -97.14551 Direction: South Comment: Alfred Tot Lot	
6	03-Nov-2021	Latitude: 49.92103 Longitude: -97.14855 Direction: East Strathcona School Comment:	

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PHOTO: DATE: LOCATION / DIRECTION:

1	04-Nov-2021	Latitude: 49.92087 Longitude: -97.16899 Direction: West Comment: Old Exhibition Athletic Grounds	
2	04-Nov-2021	Latitude: 49.91626 Longitude: -97.15243 Direction: West Comment: Immaculate Heart Playground	
3	04-Nov-2021	Latitude: 49.93007 Longitude: -97.13449 Direction: East Andrews Tot Lot Comment:	

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PHOTO: DATE: LOCATION / DIRECTION:

4	04-Nov-2021	Latitude: 49.92457 Longitude: -97.13711 Direction: South Comment: Machray Park	
5	04-Nov-2021	Latitude: 49.92678 Longitude: -97.13859 Direction: West Comment: Ralph Brown School	
6	04-Nov-2021	Latitude: 49.92022 Longitude: -97.13184 Direction: North Comment: Machray School	

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PHOTO: DATE: LOCATION / DIRECTION:

7	04-Nov-2021	Latitude: 49.92323 Longitude: -97.13019 Direction: East Champlain School Comment:
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PHOTO: DATE: LOCATION / DIRECTION:




1	05-Nov-2021	Latitude: 49.93333 Longitude: -97.14463 Direction: East Arlington Tot Lot Comment:	
2	05-Nov-2021	Latitude: 49.93259 Longitude: -97.14211 Direction: East Parr Tot Lot Comment:	
3	05-Nov-2021	Latitude: 49.93154 Longitude: -97.13932 Direction: West Comment: Mckenzie Tot Lot	

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PHOTO: DATE: LOCATION / DIRECTION:

4	05-Nov-2021	Latitude: 49.92543 Longitude: -97.14828 Direction: East Faraday School Comment:	
5	05-Nov-2021	Latitude: 49.92139 Longitude: -97.16428 Direction: South Comment: Sargent Tommy Prince MM Veterans Park	
6	05-Nov-2021	Latitude: 49.91674 Longitude: -97.15174 Direction: South Comment: Immaculate Heart of Mary School	

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PHOTO: DATE: LOCATION / DIRECTION:

7	05-Nov-2021	Latitude: 49.93306 Longitude: -97.14096 Direction: North .
Comment: Inkster School		



8	05-Nov-2021	Latitude: 49.91446 Longitude: -97.14417 Direction: South .
Comment: Niji Mahkwa and Children of Earth Schools		



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PHOTO: DATE: LOCATION / DIRECTION:




1	08-Nov-2021	Latitude: 49.93718 Longitude: -97.20635 Direction: East Tyndall Park School Comment:		
2	08-Nov-2021	Latitude: 49.9407 Longitude: -97.21637 Direction: South Comment: Garden Grove Park		
3	08-Nov-2021	Latitude: 49.94562 Longitude: -97.20824 Direction: South Comment: Stanley Knowles School		

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PHOTO: DATE: LOCATION / DIRECTION:

4	08-Nov-2021	Latitude: 49.94329 Longitude: -97.20773 Direction: North Comment: Fairgrove Window Park		
5	08-Nov-2021	Latitude: 49.94321 Longitude: -97.22257 Direction: West Comment: Prairie Rose School		
6	08-Nov-2021	Latitude: 49.93984 Longitude: -97.21546 Direction: East Garden Grove School Comment:		

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PHOTO: DATE: LOCATION / DIRECTION:

1	08-Nov-2021	Latitude: 49.93302 Longitude: -97.20214 Direction: North Comment: Gainsborough Cove Tot Lot		
2	08-Nov-2021	Latitude: 49.93357 Longitude: -97.21152 Direction: North Comment: Walsall Park		

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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:




1	09-Nov-2021	Latitude: 49.94367 Longitude: -97.19767 Direction: South Comment: Kinver Park		
2	09-Nov-2021	Latitude: 49.94358 Longitude: -97.20374 Direction: South Comment: Albina Fuga Park		
3	09-Nov-2021	Latitude: 49.94062 Longitude: -97.22144 Direction: North Comment: Egesz Park		

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PHOTO: DATE: LOCATION / DIRECTION:

4	09-Nov-2021	Latitude: 49.93676 Longitude: -97.21029 Direction: West Comment: Finestone Park		
5	09-Nov-2021	Latitude: 49.9361 Longitude: -97.16599 Direction: East Andrew Mynarski School Comment:		
6	09-Nov-2021	Latitude: 49.93765 Longitude: -97.2044 Direction: East Tyndall Park C.C Comment:		

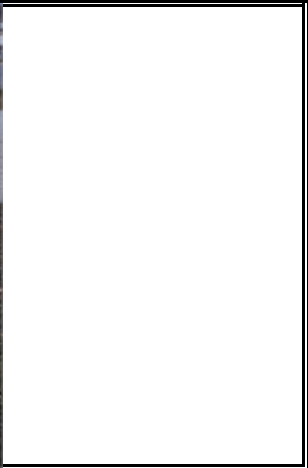
Winnipeg, MB		PHOTO LOG
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PHOTO: DATE: LOCATION / DIRECTION:

7	09-Nov-2021	Latitude: 49.93522 Longitude: -97.18979 Direction: South Shaughnessy Park Comment:
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PHOTO: DATE: LOCATION / DIRECTION:

1	10-Nov-2021	Latitude: 49.92924 Longitude: -97.16356 Direction: West Comment: Boyd Park		
2	10-Nov-2021	Latitude: 49.93244 Longitude: -97.1786 Direction: North Comment: Rick Hudson Park		
3	10-Nov-2021	Latitude: 49.93049 Longitude: -97.17886 Direction: West Comment: Northwood C.C		

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PHOTO: DATE: LOCATION / DIRECTION:




<p>4 10-Nov-2021 Latitude: 49.92936 Longitude: -97.17133 Direction: North .</p> <p>Comment: Lord Nelson School</p>		
<p>5 10-Nov-2021 Latitude: 49.93221 Longitude: -97.19164 Direction: North .</p> <p>Comment: Shaughnessy Park School</p>		

Winnipeg, MB	PHOTO LOG
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:




1	12-Nov-2021	Latitude: 49.9348 Longitude: -97.15135 Direction: West Comment: Polson Bay Park		
2	12-Nov-2021	Latitude: 49.93011 Longitude: -97.15108 Direction: West Comment: John Shaley Tot Lot / Sinclair Park C.C		
3	12-Nov-2021	Latitude: 49.93496 Longitude: -97.15939 Direction: South Comment: John Yuzyk Park-Sinclair Park C.C- Robertson Site		

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PHOTO: DATE: LOCATION / DIRECTION:

4	12-Nov-2021	Latitude: 49.93412 Longitude: -97.15731 Direction: South Comment: Robertson School		
5	12-Nov-2021	Latitude: 49.92362 Longitude: -97.15372 Direction: West Comment: Margaret Scott Park		
6	12-Nov-2021	Latitude: 49.91961 Longitude: -97.15662 Direction: South Comment: King Edward School		

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PHOTO: DATE: LOCATION / DIRECTION:

1	15-Nov-2021	Latitude: 49.90286 Longitude: -97.14459 Direction: South Comment: Ross Ellen Park		
2	15-Nov-2021	Latitude: 49.90361 Longitude: -97.14525 Direction: West Comment: Pacific Avenue Tot Lot		
3	15-Nov-2021	Latitude: 49.90253 Longitude: -97.14199 Direction: North Comment: Gord Dong Park		

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PHOTO: DATE: LOCATION / DIRECTION:

4	15-Nov-2021	Latitude: 49.93911 Longitude: -97.157 Direction: East Lansdowne School Comment:		
5	15-Nov-2021	Latitude: 49.90423 Longitude: -97.14147 Direction: North Comment: Giizhigooweyaabikwe Park		
6	15-Nov-2021	Latitude: 49.90344 Longitude: -97.14996 Direction: South Comment: Roosevelt Park		

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Client:	Manitoba Environment, Climate and Parks
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PARSONS

PHOTO: DATE: LOCATION / DIRECTION:

7	15-Nov-2021	Latitude: 49.90453
		Longitude: -97.14802
		Direction: West

Comment: Central C.C / Freighthouse






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PHOTO: DATE: LOCATION / DIRECTION:



1	16-Nov-2021	Latitude: 49.92083 Longitude: -97.19201 Direction: East Weston Memorial C.C Comment:		
2	16-Nov-2021	Latitude: 49.92109 Longitude: -97.1902 Direction: East Weston Park Comment:		
3	16-Nov-2021	Latitude: 49.91592 Longitude: -97.19119 Direction: North Comment: Cecil Rhodes School and Adolescent Parent Centre		

Winnipeg, MB	PHOTO LOG
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PHOTO: DATE: LOCATION / DIRECTION:

4	16-Nov-2021	Latitude: 49.91482 Longitude: -97.18865 Direction: East Campion Tot Lot Comment:		
5	16-Nov-2021	Latitude: 49.91476 Longitude: -97.18362 Direction: East Pascoe Playground Comment:		
6	16-Nov-2021	Latitude: 49.91577 Longitude: -97.17621 Direction: North Comment: Stanley Knowles Park		

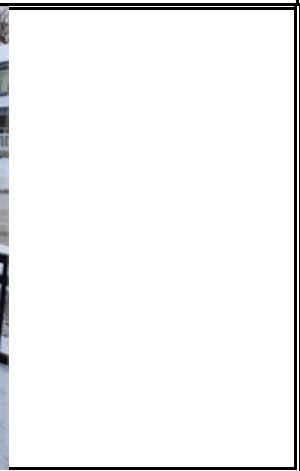
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PHOTO: DATE: LOCATION / DIRECTION:

7	16-Nov-2021	Latitude: 49.9065 Longitude: -97.1517 Direction: South Comment: Dufferin Park
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PHOTO: DATE: LOCATION / DIRECTION:




1	17-Nov-2021	Latitude: 49.88713 Longitude: -97.12269 Direction: West Comment: La Verendrye Park		
2	17-Nov-2021	Latitude: 49.87818 Longitude: -97.11691 Direction: East Traverse Park Comment:		

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PHOTO: DATE: LOCATION / DIRECTION:




1	17-Nov-2021	Latitude: 49.90539 Longitude: -97.1476 Direction: South Comment: Dufferin School		
2	17-Nov-2021	Latitude: 49.91703 Longitude: -97.19948 Direction: North Comment: Bannatyne Playground		
3	17-Nov-2021	Latitude: 49.9241 Longitude: -97.1977 Direction: North Comment: Galmar Park		

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PHOTO: DATE: LOCATION / DIRECTION:

1	18-Nov-2021	Latitude: 49.91875 Longitude: -97.20432 Direction: East Blue Bird Park Comment:		
2	18-Nov-2021	Latitude: 49.91874 Longitude: -97.20516 Direction: North Comment: Lismore Park		
3	18-Nov-2021	Latitude: 49.92221 Longitude: -97.20217 Direction: South Comment: Brooklands School		

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PHOTO: DATE: LOCATION / DIRECTION:



4	18-Nov-2021	Latitude: 49.92146 Longitude: -97.20027 Direction: West Comment: Pacific Dee Park		
5	18-Nov-2021	Latitude: 49.90335 Longitude: -97.18524 Direction: East Clifton Bay Park Comment:		
6	18-Nov-2021	Latitude: 49.90149 Longitude: -97.1901 Direction: West Comment: Valour C.C.-Clifton Site		

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PHOTO: DATE: LOCATION / DIRECTION:




<p>7 18-Nov-2021 Latitude: 49.89902 Longitude: -97.17843 Direction: North</p> <p>Comment: Sargent Park</p>		
<p>8 18-Nov-2021 Latitude: 49.89902 Longitude: -97.17823 Direction: East</p> <p>Comment: Sargent Park School</p>		

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PHOTO: DATE: LOCATION / DIRECTION:




1	22-Nov-2021	Latitude: 49.88577 Longitude: -97.16632 Direction: South Comment: Vimy Ridge Memorial Park	
2	22-Nov-2021	Latitude: 49.88166 Longitude: -97.16683 Direction: South Comment: Westminster Tot Lot	
3	22-Nov-2021	Latitude: 49.87711 Longitude: -97.17333 Direction: South Comment: Robert A. Steen Memorial C.C	

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PHOTO: DATE: LOCATION / DIRECTION:



<p>4 22-Nov-2021 Latitude: 49.87804 Longitude: -97.17534 Direction: East</p> <p>Aubrey Playground Comment:</p>	
<p>5 22-Nov-2021 Latitude: 49.88643 Longitude: -97.176 Direction: West</p> <p>Sherburn Tot Lot Comment:</p>	
<p>6 22-Nov-2021 Latitude: 49.88638 Longitude: -97.18001 Direction: East</p> <p>Minto Tot Lot Comment:</p>	

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PHOTO: DATE: LOCATION / DIRECTION:




<p>7 22-Nov-2021 Latitude: 49.88928 Longitude: -97.17979 Direction: South .</p> <p>Comment: Minto Athletic Grounds</p>	
<p>8 22-Nov-2021 Latitude: 49.8874 Longitude: -97.1867 Direction: South .</p> <p>Comment: Isaac Brock School</p>	

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PHOTO: DATE: LOCATION / DIRECTION:




1	23-Nov-2021	Latitude: 49.88387 Longitude: -97.07382 Direction: South Comment: Lambert Park	
2	23-Nov-2021	Latitude: 49.89774 Longitude: -97.09934 Direction: West Comment: Mission Park	
3	23-Nov-2021	Latitude: 49.88251 Longitude: -97.1705 Direction: East Nick Ternette Memorial Park Comment:	

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PHOTO: DATE: LOCATION / DIRECTION:




4	23-Nov-2021	Latitude: 49.87994 Longitude: -97.18748 Direction: South Comment: Greenwood Park	
5	23-Nov-2021	Latitude: 49.8965 Longitude: -97.16644 Direction: West Comment: Home Playground	
6	23-Nov-2021	Latitude: 49.89444 Longitude: -97.16164 Direction: East John M King School Comment:	

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PHOTO: DATE: LOCATION / DIRECTION:




7	23-Nov-2021	Latitude: 49.89967 Longitude: -97.15956 Direction: East Maryland Tot Lot Comment:	
8	23-Nov-2021	Latitude: 49.90021 Longitude: -97.16223 Direction: North Comment: Jacob Penner Park	
9	23-Nov-2021	Latitude: 49.90213 Longitude: -97.17251 Direction: West Comment: Lipton Park	

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PHOTO: DATE: LOCATION / DIRECTION:




1	24-Nov-2021	Latitude: 49.88836 Longitude: -97.22004 Direction: North Comment: St. James Memorial Sports Park	
2	24-Nov-2021	Latitude: 49.88837 Longitude: -97.22208 Direction: West Comment: Legion Memorial Playground	
3	24-Nov-2021	Latitude: 49.88732 Longitude: -97.25154 Direction: East Leicester Square Playground Comment:	

Winnipeg, MB		PHOTO LOG
Client:	Manitoba Environment, Climate and Parks	

Site:	10-12553
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PHOTO: DATE: LOCATION / DIRECTION:

4	24-Nov-2021	Latitude: 49.88765 Longitude: -97.25882 Direction: West Comment: Listowel Playground	
5	24-Nov-2021	Latitude: 49.88973 Longitude: -97.21662 Direction: East Collegiate Park Comment:	
6	24-Nov-2021	Latitude: 49.8987 Longitude: -97.16567 Direction: North Comment: Wellington School	

APPENDIX C

QUALITY ASSURANCE AND QUALITY CONTROL

QUALITY ASSURANCE AND QUALITY CONTROL DISCUSSION (QA/QC)

Methodology

For the field duplicate samples, the relative percent difference (RPD) between the field duplicate and original sample results were calculated, and compared to the RPD to designated alert limits. The RPD is only calculated when the original and duplicate sample concentrations are at least five times the reportable detection limit.

$$RPD = \left| \frac{(x_1 - x_2)}{\left(\frac{(x_1 + x_2)}{2}\right)} \right| \times 100$$

QA/QC Review

The designated soil field duplicate RPD alert limits are presented in Table C-1. The soil field QA/QC program consisted of 99 field duplicate soil samples for lead.

As indicated, the RPDs were above the alert limits in BC-KE-02 and CH-RE-08 and their field duplicates for lead. However, the sample and their field duplicates did not exceed the applicable criteria for lead; therefore, the deviations should not materially affect the interpretation of the results for this assessment. All other RPDs were within the alert limits.

The laboratory QA/QC program consisted of one or more of the following analyses (a) instrument and extraction surrogate recoveries for samples that were analyzed, and (b) the analysis of method blank, laboratory duplicate, matrix spike and/or laboratory control samples for the sample analytical batches that were analyzed. The laboratory QA/QC results are presented in the certificates of analysis.

No field or laboratory QA/QC issues were identified that would affect the overall conclusions presented in this report. Overall, the results reported are considered to be reliable.

TABLE C-1

RELATIVE PERCENT DIFFERENCE CALCULATIONS FOR FIELD DUPLICATE SAMPLES

Laboratory Certificate of Analysis No.	Laboratory Sample ID	Sample ID	Duplicate/ Re-run	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Laboratory Reportable Detection Limit (RDL)	Lead (mg/kg)	Relative Percent Difference (RPD) (%)
RPD Alert Limit:								100
C193707	ALW140	AB-SJ-20	Original	0-0.025	2021/11/24	0.50	6.5	17
C193707	ALW141	AB-SJ-20D	Duplicate	0-0.025	2021/11/24	0.50	7.7	
C193705	ALW097	AB-LP-06	Original	0-0.025	2021/11/24	0.50	25	0
C193705	ALW098	AB-LP-06D	Duplicate	0-0.025	2021/11/24	0.50	25	
C193707	ALW147	AB-LM-02	Original	0-0.025	2021/11/24	0.50	21	5
C193707	ALW148	AB-LM-02D	Duplicate	0-0.025	2021/11/24	0.50	20	
C182827	AJG980	AW-HP-17	Original	0-0.025	2021/10/26	0.50	50	2
C182827	AJG981	AW-HP-17D	Duplicate	0-0.025	2021/10/26	0.50	51	
C193735	ALW279	BL-GP-04	Original	0-0.025	2021/11/17	1.0	27	35
C193735	ALW280	BL-GP-04D	Duplicate	0-0.025	2021/11/17	0.50	19	
C193734	ALW261	BL-PD-03	Original	0-0.025	2021/11/18	1.0	12	25
C193734	ALW262	BL-PD-03D	Duplicate	0-0.025	2021/11/18	1.0	9.3	
C189375	AKZ989	BC-KE-02	Original	0-0.025	2021/11/12	1.0	12	104
C189375	AKZ990	BC-KE-02D	Duplicate	0-0.025	2021/11/12	1.0	38	
C189363	AKZ865	BK-SP-02	Original	0-0.025	2021/11/09	1.0	12	22
C189363	AKZ866	BK-SP-02D	Duplicate	0-0.025	2021/11/09	1.0	15	
C189363	AKZ885	BK-SS-01	Original	0-0.025	2021/11/10	1.0	34	54
C189363	AKZ886	BK-SS-01D	Duplicate	0-0.025	2021/11/10	1.0	59	
C189415	ALA651	CN-CC-07	Original	0-0.025	2021/11/15	0.50	13	27
C189415	ALA652	CN-CC-07D	Duplicate	0-0.025	2021/11/15	0.50	17	
C189415	ALA682	CN-DS-05	Original	0-0.025	2021/11/17	1.0	110	10
C189415	ALA683	CN-DS-05D	Duplicate	0-0.025	2021/11/17	1.0	100	
C189409	ALA448	CN-GP-06	Original	0-0.025	2021/11/15	0.50	52	6
C189409	ALA449	CN-GP-06D	Duplicate	0-0.025	2021/11/15	1.0	49	
C189409	ALA422	CN-RE-03	Original	0-0.025	2021/11/15	1.0	21	47
C189409	ALA423	CN-RE-03D	Duplicate	0-0.025	2021/11/15	1.0	13	
C182343	AJE108	SB-LV-01	Original	0-0.025	2021/10/21	0.50	140	7
C182343	AJE109	SB-LV-01D	Duplicate	0-0.025	2021/10/21	0.50	150	
C180131	AIQ217	CH-CH-01	Original	0-0.025	2021/10/15	0.50	35	6
C180131	AIQ218	CH-CH-01D	Duplicate	0-0.025	2021/10/15	0.50	33	
C180131	AIQ203	CH-EW-11	Original	0-0.025	2021/10/15	0.50	41	22
C180131	AIQ204	CH-EW-11D	Duplicate	0-0.025	2021/10/15	0.50	51	
C180131	AIQ188	CH-LS-07	Original	0-0.025	2021/10/15	0.50	24	18
C180131	AIQ189	CH-LS-07D	Duplicate	0-0.025	2021/10/15	0.50	20	
C180132	AIQ235	CH-RE-08	Original	0-0.025	2021/10/15	0.50	17	128
C180132	AIQ236	CH-RE-08D	Duplicate	0-0.025	2021/10/15	0.50	78	
C193701	ALW033	DM-HP-07	Original	0-0.025	2021/11/23	1.0	63	8
C193701	ALW034	DM-HP-07D	Duplicate	0-0.025	2021/11/23	1.0	58	
C193701	ALW042	DM-JK-07	Original	0-0.025	2021/11/23	1.0	7.5	36
C193701	ALW043	DM-JK-07D	Duplicate	0-0.025	2021/11/23	1.0	5.2	
C193701	ALW050	DM-ML-05	Original	0-0.025	2021/11/23	1.0	150	0
C193701	ALW051	DM-ML-05D	Duplicate	0-0.025	2021/11/23	1.0	150	
C187006	AKJ336	DU-NM-10	Original	0-0.025	2021/11/05	1.0	17	78
C187006	AKJ337	DU-NM-10D	Duplicate	0-0.025	2021/11/05	1.0	7.5	
C187006	AKJ295	DU-OE-10	Original	0-0.025	2021/11/04	0.50	6	15
C187006	AKJ296	DU-OE-10D	Duplicate	0-0.025	2021/11/04	0.50	7	
C181837	AJB237	DF-KP-01	Original	0-0.025	2021/10/22	0.50	89	21
C181837	AJB238	DF-KP-01D	Duplicate	0-0.025	2021/10/22	0.50	110	
C178765V1	AIH505	EE-EE-08	Original	0-0.025	2021/10/13	0.50	21	9
C178765V1	AIH506	EE-EE-08D	Duplicate	0-0.025	2021/10/13	0.50	23	
C178265V1	AIET29	EE-HH-01	Original	0-0.025	2021/10/12	0.50	68	1
C178265V1	AIET30	EE-HH-01D	Duplicate	0-0.025	2021/10/12	0.50	69	
C178765V1	AIH494	EE-KR-17	Original	0-0.025	2021/10/13	0.50	39	3
C178765V1	AIH495	EE-KR-17D	Duplicate	0-0.025	2021/10/13	0.50	40	
C178765V1	AIH529	EE-RR-09	Original	0-0.025	2021/10/13	0.50	110	9
C178765V1	AIH530	EE-RR-09D	Duplicate	0-0.025	2021/10/13	0.50	120	
C180124	AIQ101	GE-GE-07	Original	0-0.025	2021/10/14	0.50	44	75
C180124	AIQ102	GE-GE-07D	Duplicate	0-0.025	2021/10/14	0.50	20	
C180124	AIQ120	GE-HP-07	Original	0-0.025	2021/10/14	0.50	24	12

TABLE C-1

RELATIVE PERCENT DIFFERENCE CALCULATIONS FOR FIELD DUPLICATE SAMPLES

Laboratory Certificate of Analysis No.	Laboratory Sample ID	Sample ID	Duplicate/ Re-run	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Laboratory Reportable Detection Limit (RDL)	Lead (mg/kg)	Relative Percent Difference (RPD) (%)
RPD Alert Limit:								100
C180124	AIQ121	GE-HP-07D	Duplicate	0-0.025	2021/10/14	0.50	27	
C187477	AKN364	IF-FS-05	Original	0-0.025	2021/11/05	1.0	20	22
C187477	AKN365	IF-FS-05D	Duplicate	0-0.025	2021/11/05	1.0	25	
C187477	AKN351	IF-ML-01	Original	0-0.025	2021/11/05	0.50	110	24
C187477	AKN352	IF-ML-01D	Duplicate	0-0.025	2021/11/05	0.50	140	
C181974	AJC193	LR-AR-03	Original	0-0.025	2021/10/19	1.0	240	23
C181974	AJC194	LR-AR-03D	Duplicate	0-0.025	2021/10/19	0.50	190	
C181113	AIW303	LR-BA-02	Original	0-0.025	2021/10/19	1.0	47	0
C181113	AIW304	LR-BA-02D	Duplicate	0-0.025	2021/10/19	1.0	47	
C181113	AIW313	LR-LC-02	Original	0-0.025	2021/10/19	1.0	7.7	41
C181113	AIW314	LR-LC-02D	Duplicate	0-0.025	2021/10/19	1.0	5.1	
C181974	AJC206	LR-LS-10	Original	0-0.025	2021/10/20	0.50	42	2
C181974	AJC207	LR-LS-10D	Duplicate	0-0.025	2021/10/20	1.0	41	
C181113	AIW275	LR-NS-02	Original	0-0.025	2021/10/19	1.0	120	0
C181113	AIW276	LR-NS-02D	Duplicate	0-0.025	2021/10/19	1.0	120	
C181113	AIW300	LR-WJ-13	Original	0-0.025	2021/10/19	1.0	33	9
C181113	AIW301	LR-WJ-13D	Duplicate	0-0.025	2021/10/19	1.0	36	
C185629	AJZ116	LS-DL-03	Original	0-0.025	2021/11/02	1.0	24	55
C185629	AJZ117	LS-DL-03D	Duplicate	0-0.025	2021/11/02	1.0	42	
C185629	AJZ105	LS-NW-05	Original	0-0.025	2021/11/02	1.0	50	4
C185629	AJZ106	LS-NW-05D	Duplicate	0-0.025	2021/11/02	1.0	52	
C182766	AJG646	LX-LS-02	Original	0-0.025	2021/10/25	0.50	15	6
C182766	AJG647	LX-LS-02D	Duplicate	0-0.025	2021/10/25	0.50	16	
C193697	ALV991	MT-AG-02	Original	0-0.025	2021/11/22	1.0	52	19
C193697	ALV992	MT-AG-02D	Duplicate	0-0.025	2021/11/22	1.0	63	
C193748	ALW492	MT-SL-02	Original	0-0.025	2021/11/22	0.50	140	7
C193748	ALW493	MT-SL-02D	Duplicate	0-0.025	2021/11/22	0.50	130	
C182766	AJG625	MI-KP-01	Original	0-0.025	2021/10/25	0.50	18	15
C182766	AJG626	MI-KP-01D	Duplicate	0-0.025	2021/10/25	0.50	21	
C182766	AJG620	MI-MP-13	Original	0-0.025	2021/10/25	0.50	140	15
C182766	AJG621	MI-MP-13D	Duplicate	0-0.025	2021/10/25	0.50	120	
C189363	AKZ856	MN-AM-02	Original	0-0.025	2021/11/09	1.0	40	30
C189363	AKZ857	MN-AM-02D	Duplicate	0-0.025	2021/11/09	1.0	54	
C185620	AJY973	ND-AA-05	Original	0-0.025	2021/11/01	1.0	89	30
C185620	AJY974	ND-AA-05D	Duplicate	0-0.025	2021/11/01	1.0	120	
C185620	AJY939	ND-JS-01	Original	0-0.025	2021/11/01	1.0	23	4
C185620	AJY940	ND-JS-01D	Duplicate	0-0.025	2021/11/01	1.0	24	
C185620	AJY985	ND-NS-05	Original	0-0.025	2021/11/01	1.0	17	52
C185620	AJY986	ND-NS-05D	Duplicate	0-0.025	2021/11/01	1.0	29	
C185620	AJZ005	ND-SL-07	Original	0-0.025	2021/11/01	1.0	15	0
C185620	AJZ006	ND-SL-07D	Duplicate	0-0.025	2021/11/01	1.0	15	
C185266	AJX010	NE-EP-01	Original	0-0.025	2021/10/29	1.0	54	2
C185266	AJX011	NE-EP-01D	Duplicate	0-0.025	2021/10/29	1.0	55	
C184210	AJP165	NE-HP-02	Original	0-0.025	2021/10/27	0.50	48	18
C184210	AJP166	NE-HP-02D	Duplicate	0-0.025	2021/10/27	1.0	40	
C181014	AIW570	RO-FP-14	Original	0-0.025	2021/10/18	1.0	130	0
C181014	AIW571	RO-FP-14D	Duplicate	0-0.025	2021/10/18	1.0	130	
C181014	AIW609	RO-MP-13	Original	0-0.025	2021/10/18	1.0	50	17
C181014	AIW610	RO-MP-13D	Duplicate	0-0.025	2021/10/18	1.0	59	
C181883	AJB523	RV-CG-10	Original	0-0.025	2021/10/21	0.50	21	0
C181883	AJB524	RV-CG-10D	Duplicate	0-0.025	2021/10/21	0.50	21	
C181883	AJB530	RV-CP-05	Original	0-0.025	2021/10/21	0.50	46	36
C181883	AJB531	RV-CP-05D	Duplicate	0-0.025	2021/10/21	0.50	32	
C181975	AJC228	RV-DT-01	Original	0-0.025	2021/10/20	1.0	20	0
C181975	AJC229	RV-DT-01D	Duplicate	0-0.025	2021/10/20	1.0	20	
C181975	AJC246	RV-RC-15	Original	0-0.025	2021/10/20	0.50	13	14
C181975	AJC247	RV-RC-15D	Duplicate	0-0.025	2021/10/20	1.0	15	
C181975	AJC255	RV-RS-04	Original	0-0.025	2021/10/20	0.50	29	34
C181975	AJC256	RV-RS-04D	Duplicate	0-0.025	2021/10/20	0.50	41	

TABLE C-1

RELATIVE PERCENT DIFFERENCE CALCULATIONS FOR FIELD DUPLICATE SAMPLES

Laboratory Certificate of Analysis No.	Laboratory Sample ID	Sample ID	Duplicate/ Re-run	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Laboratory Reportable Detection Limit (RDL)	Lead (mg/kg)	Relative Percent Difference (RPD) (%)
RPD Alert Limit:								100
C189375	ALA015	RB-JS-14	Original	0-0.025	2021/11/12	1.0	20	11
C189375	ALA016	RB-JS-14D	Duplicate	0-0.025	2021/11/12	0.50	18	
C189409	ALA417	RB-LS-15	Original	0-0.025	2021/11/15	1.0	42	2
C189409	ALA418	RB-LS-15D	Duplicate	0-0.025	2021/11/15	1.0	43	
C189375	ALA033	RB-RS-07	Original	0-0.025	2021/11/12	1.0	41	7
C189375	ALA034	RB-RS-07D	Duplicate	0-0.025	2021/11/12	0.50	44	
C193749	ALW523	SG-CS-05	Original	0-0.025	2021/11/19	0.50	71	7
C193749	ALW524	SG-CS-05D	Duplicate	0-0.025	2021/11/19	0.50	76	
C193750	ALW556	SG-SP-07	Original	0-0.025	2021/11/18	0.50	110	53
C193750	ALW557	SG-SP-07D	Duplicate	0-0.025	2021/11/18	0.50	190	
C193750	ALW538	SG-VC-04	Original	0-0.025	2021/11/18	0.50	18	32
C193750	ALW539	SG-VC-04D	Duplicate	0-0.025	2021/11/18	0.50	13	
C189363	AKZ900	SP-RH-05	Original	0-0.025	2021/11/10	1.0	7.3	75
C189363	AKZ901	SP-RH-05D	Duplicate	0-0.025	2021/11/10	1.0	16	
C185629	AJZ096	SD-FD-01	Original	0-0.025	2021/11/02	1.0	20	35
C185629	AJZ097	SD-FD-01D	Duplicate	0-0.025	2021/11/02	1.0	14	
C185266	AJW985	BI-CS-02	Original	0-0.025	2021/10/29	1.0	12	30
C185266	AJW986	BI-CS-02D	Duplicate	0-0.025	2021/10/29	1.0	8.9	
C185266	AJW981	BI-MS-11	Original	0-0.025	2021/10/29	1.0	190	10
C185266	AJW982	BI-MS-11D	Duplicate	0-0.025	2021/10/29	1.0	210	
C187009	AKJ392	SJ-MS-06	Original	0-0.025	2021/11/04	1.0	47	16
C187009	AKJ393	SJ-MS-06D	Duplicate	0-0.025	2021/11/04	1.0	40	
C187009	AKJ381	SJ-RB-06	Original	0-0.025	2021/11/04	1.0	15	7
C187009	AKJ382	SJ-RB-06D	Duplicate	0-0.025	2021/11/04	1.0	14	
C187009	AKJ350	SJ-SL-08	Original	0-0.025	2021/11/03	1.0	20	5
C187009	AKJ351	SJ-SL-08D	Duplicate	0-0.025	2021/11/03	1.0	21	
C186830	AKI130	JP-JP-17	Original	0-0.025	2021/11/03	1.0	30	13
C186830	AKI131	JP-JP-17D	Duplicate	0-0.025	2021/11/03	1.0	34	
C188315	AKT068	TP-EP-04	Original	0-0.025	2021/11/09	0.50	11	17
C188315	AKT069	TP-EP-04D	Duplicate	0-0.025	2021/11/09	0.50	13	
C188379	AKT648	TP-FW-05	Original	0-0.025	2021/11/08	1.0	13	8
C188379	AKT649	TP-FW-05D	Duplicate	0-0.025	2021/11/08	1.0	12	
C188315	AKT079	TP-FP-05	Original	0-0.025	2021/11/09	0.50	19	0
C188315	AKT080	TP-FP-05D	Duplicate	0-0.025	2021/11/09	0.50	19	
C188379	AKT673	TP-PR-07	Original	0-0.025	2021/11/08	1.0	11	31
C188379	AKT674	TP-PR-07D	Duplicate	0-0.025	2021/11/08	1.0	15	
C188315	AKT100	TP-TP-16	Original	0-0.025	2021/11/09	0.50	22	20
C188315	AKT101	TP-TP-16D	Duplicate	0-0.025	2021/11/09	0.50	18	
C188379	AKT626	TP-TS-02	Original	0-0.025	2021/11/08	0.50	20	5
C188379	AKT627	TP-TS-02D	Duplicate	0-0.025	2021/11/08	1.0	21	
C188379	AKT609	TP-WP-07	Original	0-0.025	2021/11/08	1.0	89	20
C188379	AKT610	TP-WP-07D	Duplicate	0-0.025	2021/11/08	1.0	73	
C193737	ALW335	WT-CR-03	Original	0-0.025	2021/11/16	0.50	35	39
C193737	ALW336	WT-CR-03D	Duplicate	0-0.025	2021/11/16	0.50	52	
C189415	ALA694	WT-WM-03	Original	0-0.025	2021/11/16	1.0	140	7
C189415	ALA695	WT-WM-03D	Duplicate	0-0.025	2021/11/16	1.0	130	
C189415	ALA706	WT-WP-04	Original	0-0.025	2021/11/16	1.0	52	14
C189415	ALA707	WT-WP-04D	Duplicate	0-0.025	2021/11/16	1.0	45	
C186830	AKI170	WW-AL-06	Original	0-0.025	2021/11/03	1.0	78	25
C186830	AKI171	WW-AL-06D	Duplicate	0-0.025	2021/11/03	1.0	100	
C186830	AKI160	WW-SC-07	Original	0-0.025	2021/11/03	0.50	25	38
C186830	AKI161	WW-SC-07D	Duplicate	0-0.025	2021/11/03	0.50	17	
C184218	AJP347	WP-AG-10	Original	0-0.025	2021/10/27	0.50	22	0
C184218	AJP348	WP-AG-10D	Duplicate	0-0.025	2021/10/27	0.50	22	
C184218	AJP332	WP-AP-05	Original	0-0.025	2021/10/27	0.50	38	8
C184218	AJP333	WP-AP-05D	Duplicate	0-0.025	2021/10/27	0.50	35	
C184213	AJP258	WP-DP-07	Original	0-0.025	2021/10/28	0.50	21	0
C184213	AJP259	WP-DP-07D	Duplicate	0-0.025	2021/10/28	0.50	21	
C184213	AJP214	WP-FP-02	Original	0-0.025	2021/10/28	1.0	21	0

TABLE C-1

RELATIVE PERCENT DIFFERENCE CALCULATIONS FOR FIELD DUPLICATE SAMPLES

Laboratory Certificate of Analysis No.	Laboratory Sample ID	Sample ID	Duplicate/ Re-run	Sample Depth (mbgs)	Date Sampled (yyyy/mm/dd)	Laboratory Reportable Detection Limit (RDL)	Lead (mg/kg)	Relative Percent Difference (RPD) (%)
RPD Alert Limit:								100
C184213	AJP215	WP-FP-02D	Duplicate	0-0.025	2021/10/28	1.0	21	
C184210	AJP203	WP-FC-04	Original	0-0.025	2021/10/28	1.0	15	0
C184210	AJP204	WP-FC-04D	Duplicate	0-0.025	2021/10/28	0.50	15	
C185266	AJX047	WP-VS-09	Original	0-0.025	2021/10/29	1.0	28	4
C185266	AJX048	WP-VS-09D	Duplicate	0-0.025	2021/10/29	1.0	27	
C185266	AJX037	WP-LP-11	Original	0-0.025	2021/10/29	1.0	25	27
C185266	AJX038	WP-LP-11D	Duplicate	0-0.025	2021/10/29	1.0	19	
C184218	AJP292	WP-VM-01	Original	0-0.025	2021/10/27	0.50	14	19
C184218	AJP293	WP-VM-01D	Duplicate	0-0.025	2021/10/27	0.50	17	
C184218	AJP314	WP-WP-01	Original	0-0.025	2021/10/27	0.50	26	11
C184218	AJP315	WP-WP-01D	Duplicate	0-0.025	2021/10/27	1.0	29	
C184213	AJP227	WP-WC-02	Original	0-0.025	2021/10/28	1.0	7.3	30
C184213	AJP228	WP-WC-02D	Duplicate	0-0.025	2021/10/28	1.0	5.4	
C193742	ALW402	WL-MS-09	Original	0-0.025	2021/11/19	0.50	62	46
C193742	ALW403	WL-MS-09D	Duplicate	0-0.025	2021/11/19	0.50	39	
C193747	ALW471	WL-NT-02	Original	0-0.025	2021/11/23	0.50	55	4
C193747	ALW472	WL-NT-02D	Duplicate	0-0.025	2021/11/23	0.50	57	
C193742	ALW407	WL-VR-02	Original	0-0.025	2021/11/22	0.50	62	5
C193742	ALW408	WL-VR-02D	Duplicate	0-0.025	2021/11/22	0.50	59	
C193742	ALW381	WL-WS-03	Original	0-0.025	2021/11/19	0.50	37	35
C193742	ALW382	WL-WS-03D	Duplicate	0-0.025	2021/11/19	0.50	26	

APPENDIX D

LABORATORY CERTIFICATES OF ANALYSIS

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/12

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C178265

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: N/A

Is Chain of Custody completed and signed (Yes/No)?: Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: No

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42523

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/10/28
Report #: R3091602
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C178265

Received: 2021/10/14, 14:26

Sample Matrix: Soil
Samples Received: 30

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead (1)	2	2021/10/19	2021/10/19	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	19	2021/10/20	2021/10/20	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	3	2021/10/21	2021/10/21	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	4	2021/10/22	2021/10/22	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	2	2021/10/22	2021/10/23	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42523

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/10/28
Report #: R3091602
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C178265

Received: 2021/10/14, 14:26

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

28 Oct 2021 12:45:15

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C178265

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIE723	AIE724	AIE725		AIE726		AIE727		
Sampling Date		2021/10/12 13:05	2021/10/12 13:15	2021/10/12 13:20		2021/10/12 13:35		2021/10/12 13:45		
COC Number		42523	42523	42523		42523		42523		
	UNITS	EE-MP-01	EE-MP-02	EE-MP-03	QC Batch	EE-CR-01	QC Batch	EE-CR-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	30	34	46	A393413	29	A397942	28	0.50	A393413
-----------------	-------	----	----	----	---------	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AIE728	AIE729	AIE730		AIE731	AIE732	AIE733		
Sampling Date		2021/10/12 13:52	2021/10/12 14:24	2021/10/12 14:24		2021/10/12 14:31	2021/10/12 14:37	2021/10/12 14:41		
COC Number		42523	42523	42523		42523	42523	42523		
	UNITS	EE-CR-03	EE-HH-01	EE-HH-01D	QC Batch	EE-HH-02	EE-HH-03	EE-HH-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	29	68	69	A393413	28	24	32	0.50	A397942
-----------------	-------	----	----	----	---------	----	----	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AIE734		AIE735		AIE736		AIE737		
Sampling Date		2021/10/12 14:45		2021/10/12 14:50		2021/10/12 14:57		2021/10/12 15:00		
COC Number		42523		42523		42523		42523		
	UNITS	EE-HH-05	QC Batch	EE-HH-06	QC Batch	EE-HH-07	QC Batch	EE-HH-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	20	A397942	9.1	A396022	13	A393413	11	0.50	A392230
-----------------	-------	----	---------	-----	---------	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AIE738		AIE739		AIE740		AIE741		
Sampling Date		2021/10/12 15:04		2021/10/12 15:10		2021/10/12 15:14		2021/10/12 15:17		
COC Number		42523		42523		42523		42523		
	UNITS	EE-HH-09	QC Batch	EE-HH-10	QC Batch	EE-HH-11	QC Batch	EE-HH-12	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	19	A393413	27	A396022	17	A397942	30	0.50	A393413
-----------------	-------	----	---------	----	---------	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AIE742		AIE743		AIE744	AIE745	AIE746		
Sampling Date		2021/10/12 15:22		2021/10/12 15:45		2021/10/12 15:50	2021/10/12 15:56	2021/10/12 15:59		
COC Number		42523		42523		42523	42523	42523		
	UNITS	EE-HH-13	QC Batch	EE-SS-01	QC Batch	EE-SS-02	EE-SS-03	EE-SS-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	35	A392230	23	A396022	32	17	17	0.50	A393413
-----------------	-------	----	---------	----	---------	----	----	----	------	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C178265

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIE747	AIE748	AIE749	AIE750	AIE751	AIE752		
Sampling Date		2021/10/12 16:03	2021/10/12 16:06	2021/10/12 16:10	2021/10/12 16:12	2021/10/12 16:16	2021/10/12 16:19		
COC Number		42523	42523	42523	42523	42523	42523		
	UNITS	EE-SS-05	EE-SS-06	EE-SS-07	EE-SS-08	EE-SS-09	EE-SS-10	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	27	54	48	34	20	44	0.50	A393413
RDL = Reportable Detection Limit									



BUREAU
VERITAS

Bureau Veritas Job #: C178265

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.9°C
Package 2	20.0°C

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C178265

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A392230	MFP	Matrix Spike	Total Lead (Pb)	2021/10/19		92	%	75 - 125
A392230	MFP	QC Standard	Total Lead (Pb)	2021/10/19		89	%	79 - 121
A392230	MFP	Spiked Blank	Total Lead (Pb)	2021/10/19		94	%	80 - 120
A392230	MFP	Method Blank	Total Lead (Pb)	2021/10/19	<0.50		mg/kg	
A392230	MFP	RPD	Total Lead (Pb)	2021/10/19	3.1		%	35
A393413	MFP	Matrix Spike	Total Lead (Pb)	2021/10/20		99	%	75 - 125
A393413	MFP	QC Standard	Total Lead (Pb)	2021/10/20		113	%	79 - 121
A393413	MFP	Spiked Blank	Total Lead (Pb)	2021/10/20		94	%	80 - 120
A393413	MFP	Method Blank	Total Lead (Pb)	2021/10/20	<0.50		mg/kg	
A393413	MFP	RPD	Total Lead (Pb)	2021/10/20	0.43		%	35
A396022	LQ1	Matrix Spike [AIE743-01]	Total Lead (Pb)	2021/10/21		93	%	75 - 125
A396022	LQ1	QC Standard	Total Lead (Pb)	2021/10/21		97	%	79 - 121
A396022	LQ1	Spiked Blank	Total Lead (Pb)	2021/10/21		91	%	80 - 120
A396022	LQ1	Method Blank	Total Lead (Pb)	2021/10/21	<0.50		mg/kg	
A396022	LQ1	RPD [AIE743-01]	Total Lead (Pb)	2021/10/21	1.0		%	35
A397942	LQ1	Matrix Spike	Total Lead (Pb)	2021/10/22		106	%	75 - 125
A397942	LQ1	QC Standard	Total Lead (Pb)	2021/10/22		115	%	79 - 121
A397942	LQ1	Spiked Blank	Total Lead (Pb)	2021/10/22		90	%	80 - 120
A397942	LQ1	Method Blank	Total Lead (Pb)	2021/10/22	<0.50		mg/kg	
A397942	LQ1	RPD	Total Lead (Pb)	2021/10/22	17		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C178265

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Maria Magdalena Florescu, Ph.D., P.Chem., QP, Inorganics Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



774
Custody Tracking Form



W42523

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: EE-MP-01
Last Sample: EE-SS-10
Sample Count: 30

Relinquished By				Received By			
Jesse Bursee		Date	2021/10/14	Janelle Kochan		Date	2021/10/14
		Time (24 HR)	11:30			Time (24 HR)	14:26
		Date		Reem Phillipos		Date	2021/10/15
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

14-Oct-21 14:26

Parminder Virk



C178265

ATO

INS-0469

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.7	20.1	19.9
Y	Y	N	20	20	20
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42523



Project Information: C178265
Job Received: 2021/10/14 14:26
Results Required By: 2021/10/21 15:00
Expected Arrival: 2021/10/14 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

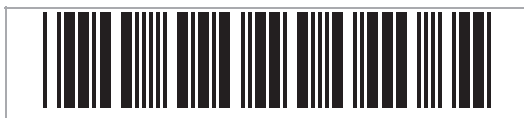
Analytical Summary

A: 2021/10/21 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
EE-MP-01	1	2021/10/12 13:05	SOIL	1	A
EE-MP-02	2	2021/10/12 13:15	SOIL	1	A
EE-MP-03	3	2021/10/12 13:20	SOIL	1	A
EE-CR-01	4	2021/10/12 13:35	SOIL	1	A
EE-CR-02	5	2021/10/12 13:45	SOIL	1	A
EE-CR-03	6	2021/10/12 13:52	SOIL	1	A
EE-HH-01	7	2021/10/12 14:24	SOIL	1	A
EE-HH-01D	8	2021/10/12 14:24	SOIL	1	A
EE-HH-02	9	2021/10/12 14:31	SOIL	1	A
EE-HH-03	10	2021/10/12 14:37	SOIL	1	A
EE-HH-04	11	2021/10/12 14:41	SOIL	1	A
EE-HH-05	12	2021/10/12 14:45	SOIL	1	A
EE-HH-06	13	2021/10/12 14:50	SOIL	1	A
EE-HH-07	14	2021/10/12 14:57	SOIL	1	A
EE-HH-08	15	2021/10/12 15:00	SOIL	1	A
EE-HH-09	16	2021/10/12 15:04	SOIL	1	A
EE-HH-10	17	2021/10/12 15:10	SOIL	1	A
EE-HH-11	18	2021/10/12 15:14	SOIL	1	A



eCOC: W42523



Project Information: C178265
Job Received: 2021/10/14 14:26
Results Required By: 2021/10/21 15:00
Expected Arrival: 2021/10/14 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/21 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
EE-HH-12	19	2021/10/12 15:17	SOIL	1	A
EE-HH-13	20	2021/10/12 15:22	SOIL	1	A
EE-SS-01	21	2021/10/12 15:45	SOIL	1	A
EE-SS-02	22	2021/10/12 15:50	SOIL	1	A
EE-SS-03	23	2021/10/12 15:56	SOIL	1	A
EE-SS-04	24	2021/10/12 15:59	SOIL	1	A
EE-SS-05	25	2021/10/12 16:03	SOIL	1	A
EE-SS-06	26	2021/10/12 16:06	SOIL	1	A
EE-SS-07	27	2021/10/12 16:10	SOIL	1	A
EE-SS-08	28	2021/10/12 16:12	SOIL	1	A
EE-SS-09	29	2021/10/12 16:16	SOIL	1	A
EE-SS-10	30	2021/10/12 16:19	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 30

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/13

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C178765

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42526

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/10/28
Report #: R3091601
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C178765

Received: 2021/10/14, 14:26

Sample Matrix: Soil
Samples Received: 54

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	14	2021/10/22	2021/10/22	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	40	2021/10/22	2021/10/23	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42526

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/10/28
Report #: R3091601
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C178765

Received: 2021/10/14, 14:26

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

28 Oct 2021 12:44:55

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C178765

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: JB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIH478	AIH479	AIH480	AIH481	AIH482	AIH483	AIH484		
Sampling Date		2021/10/13 09:40	2021/10/13 09:43	2021/10/13 09:47	2021/10/13 09:51	2021/10/13 09:54	2021/10/13 10:57	2021/10/13 11:00		
COC Number		42526	42526	42526	42526	42526	42526	42526		
	UNITS	EE-KR-01	EE-KR-02	EE-KR-03	EE-KR-04	EE-KR-05	EE-KR-06	EE-KR-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	14	19	19	25	28	24	10	0.50	A397942
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIH485	AIH486		AIH487	AIH488	AIH489	AIH490		
Sampling Date		2021/10/13 11:07	2021/10/13 11:15		2021/10/13 11:19	2021/10/13 11:24	2021/10/13 11:26	2021/10/13 11:36		
COC Number		42526	42526		42526	42526	42526	42526		
	UNITS	EE-KR-08	EE-KR-09	QC Batch	EE-KR-10	EE-KR-11	EE-KR-12	EE-KR-13	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	8.4	25	A397942	13	16	23	47	0.50	A397946
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIH491		AIH492	AIH493	AIH494		AIH495		
Sampling Date		2021/10/13 10:31		2021/10/13 10:27	2021/10/13 10:21	2021/10/13 10:17		2021/10/13 10:17		
COC Number		42526		42526	42526	42526		42526		
	UNITS	EE-KR-14	QC Batch	EE-KR-15	EE-KR-16	EE-KR-17	QC Batch	EE-KR-17D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	31	A397946	210	14	39	A398225	40	0.50	A397946
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIH496	AIH497	AIH498	AIH499	AIH500	AIH501	AIH502		
Sampling Date		2021/10/13 10:11	2021/10/13 10:06	2021/10/13 11:45	2021/10/13 11:52	2021/10/13 12:11	2021/10/13 12:09	2021/10/13 12:05		
COC Number		42526	42526	42526	42526	42526	42526	42526		
	UNITS	EE-KR-18	EE-KR-19	EE-EE-01	EE-EE-02	EE-EE-03	EE-EE-04	EE-EE-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	70	48	48	23	29	13	13	0.50	A397946
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIH503	AIH504	AIH505		AIH506		AIH507		
Sampling Date		2021/10/13 12:01	2021/10/13 10:55	2021/10/13 10:52		2021/10/13 10:52		2021/10/13 10:44		
COC Number		42526	42526	42526		42526		42526		
	UNITS	EE-EE-06	EE-EE-07	EE-EE-08	QC Batch	EE-EE-08D	QC Batch	EE-EE-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	10	19	21	A398225	23	A397946	11	0.50	A397942
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C178765

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: JB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIH508		AIH509	AIH510	AIH511		AIH512		
Sampling Date		2021/10/13 10:26		2021/10/13 11:57	2021/10/13 13:49	2021/10/13 13:41		2021/10/13 13:34		
COC Number		42526		42526	42526	42526		42526		
	UNITS	EE-EE-10	QC Batch	EE-EE-11	EE-SG-01	EE-SG-02	QC Batch	EE-SG-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	12	A397946	14	190	37	A398225	56	0.50	A397946
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIH513	AIH514	AIH515	AIH516		AIH517	AIH518		
Sampling Date		2021/10/13 13:03	2021/10/13 13:26	2021/10/13 13:21	2021/10/13 13:15		2021/10/13 13:11	2021/10/13 13:09		
COC Number		42526	42526	42526	42526		42526	42526		
	UNITS	EE-SG-04	EE-SG-05	EE-SG-06	EE-SG-07	QC Batch	EE-SG-08	EE-SG-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	78	66	54	59	A398225	82	65	0.50	A397942
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIH519		AIH520		AIH521		AIH522		
Sampling Date		2021/10/13 13:07		2021/10/13 13:03		2021/10/13 15:25		2021/10/13 15:20		
COC Number		42526		42526		42526		42526		
	UNITS	EE-SG-10	QC Batch	EE-SG-11	QC Batch	EE-RR-01	QC Batch	EE-RR-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	32	A398225	32	A397946	66	A398225	120	0.50	A397946
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIH523		AIH524		AIH525		AIH526		
Sampling Date		2021/10/13 15:16		2021/10/13 15:10		2021/10/13 15:13		2021/10/13 14:50		
COC Number		42526		42526		42526		42526		
	UNITS	EE-RR-03	QC Batch	EE-RR-04	QC Batch	EE-RR-05	QC Batch	EE-RR-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	340	A398225	83	A397946	19	A398225	85	0.50	A397946
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIH527	AIH528		AIH529	AIH530	AIH531		
Sampling Date		2021/10/13 14:53	2021/10/13 14:56		2021/10/13 15:02	2021/10/13 15:02	2021/10/13 15:07		
COC Number		42526	42526		42526	42526	42526		
	UNITS	EE-RR-07	EE-RR-08	QC Batch	EE-RR-09	EE-RR-09D	EE-RR-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	140	110	A397942	110	120	150	0.50	A398225
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C178765

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.8°C
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Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C178765

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: JB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A397942	LQ1	Matrix Spike [AIH478-01]	Total Lead (Pb)	2021/10/22		106	%	75 - 125
A397942	LQ1	QC Standard	Total Lead (Pb)	2021/10/22		115	%	79 - 121
A397942	LQ1	Spiked Blank	Total Lead (Pb)	2021/10/22		90	%	80 - 120
A397942	LQ1	Method Blank	Total Lead (Pb)	2021/10/22	<0.50		mg/kg	
A397942	LQ1	RPD [AIH478-01]	Total Lead (Pb)	2021/10/22	17		%	35
A397946	LQ1	Matrix Spike [AIH495-01]	Total Lead (Pb)	2021/10/23		103	%	75 - 125
A397946	LQ1	QC Standard	Total Lead (Pb)	2021/10/23		120	%	79 - 121
A397946	LQ1	Spiked Blank	Total Lead (Pb)	2021/10/23		97	%	80 - 120
A397946	LQ1	Method Blank	Total Lead (Pb)	2021/10/23	<0.50		mg/kg	
A397946	LQ1	RPD [AIH495-01]	Total Lead (Pb)	2021/10/23	35		%	35
A398225	KH2	Matrix Spike [AIH494-01]	Total Lead (Pb)	2021/10/23		96	%	75 - 125
A398225	KH2	QC Standard	Total Lead (Pb)	2021/10/23		109	%	79 - 121
A398225	KH2	Spiked Blank	Total Lead (Pb)	2021/10/23		94	%	80 - 120
A398225	KH2	Method Blank	Total Lead (Pb)	2021/10/23	<0.50		mg/kg	
A398225	KH2	RPD [AIH494-01]	Total Lead (Pb)	2021/10/23	0.52		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C178765

Report Date: 2021/10/28

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'M. Florescu', written over a horizontal line.

Maria Magdalena Florescu, Ph.D., P.Chem., QP, Inorganics Manager

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eCOC: W42526



Project Information: C178765
Job Received: 2021/10/14 14:26
Results Required By: 2021/10/21 15:00
Expected Arrival: 2021/10/14 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

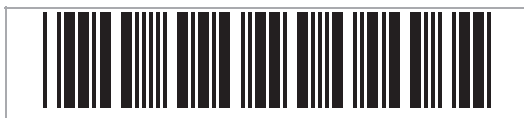
Analytical Summary

A: 2021/10/21 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
EE-KR-01	1	2021/10/13 09:40	SOIL	1	A
EE-KR-02	2	2021/10/13 09:43	SOIL	1	A
EE-KR-03	3	2021/10/13 09:47	SOIL	1	A
EE-KR-04	4	2021/10/13 09:51	SOIL	1	A
EE-KR-05	5	2021/10/13 09:54	SOIL	1	A
EE-KR-06	6	2021/10/13 10:57	SOIL	1	A
EE-KR-07	7	2021/10/13 11:00	SOIL	1	A
EE-KR-08	8	2021/10/13 11:07	SOIL	1	A
EE-KR-09	9	2021/10/13 11:15	SOIL	1	A
EE-KR-10	10	2021/10/13 11:19	SOIL	1	A
EE-KR-11	11	2021/10/13 11:24	SOIL	1	A
EE-KR-12	12	2021/10/13 11:26	SOIL	1	A
EE-KR-13	13	2021/10/13 11:36	SOIL	1	A
EE-KR-14	14	2021/10/13 10:31	SOIL	1	A
EE-KR-15	15	2021/10/13 10:27	SOIL	1	A
EE-KR-16	16	2021/10/13 10:21	SOIL	1	A
EE-KR-17	17	2021/10/13 10:17	SOIL	1	A
EE-KR-17D	18	2021/10/13 10:17	SOIL	1	A



eCOC: W42526



Project Information: C178765
Job Received: 2021/10/14 14:26
Results Required By: 2021/10/21 15:00
Expected Arrival: 2021/10/14 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/21 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
EE-KR-18	19	2021/10/13 10:11	SOIL	1	A
EE-KR-19	20	2021/10/13 10:06	SOIL	1	A
EE-EE-01	21	2021/10/13 11:45	SOIL	1	A
EE-EE-02	22	2021/10/13 11:52	SOIL	1	A
EE-EE-03	23	2021/10/13 12:11	SOIL	1	A
EE-EE-04	24	2021/10/13 12:09	SOIL	1	A
EE-EE-05	25	2021/10/13 12:05	SOIL	1	A
EE-EE-06	26	2021/10/13 12:01	SOIL	1	A
EE-EE-07	27	2021/10/13 10:55	SOIL	1	A
EE-EE-08	28	2021/10/13 10:52	SOIL	1	A
EE-EE-08D	29	2021/10/13 10:52	SOIL	1	A
EE-EE-09	30	2021/10/13 10:44	SOIL	1	A
EE-EE-10	31	2021/10/13 10:26	SOIL	1	A
EE-EE-11	32	2021/10/13 11:57	SOIL	1	A
EE-SG-01	33	2021/10/13 13:49	SOIL	1	A
EE-SG-02	34	2021/10/13 13:41	SOIL	1	A
EE-SG-03	35	2021/10/13 13:34	SOIL	1	A
EE-SG-04	36	2021/10/13 13:03	SOIL	1	A
EE-SG-05	37	2021/10/13 13:26	SOIL	1	A
EE-SG-06	38	2021/10/13 13:21	SOIL	1	A
EE-SG-07	39	2021/10/13 13:15	SOIL	1	A
EE-SG-08	40	2021/10/13 13:11	SOIL	1	A
EE-SG-09	41	2021/10/13 13:09	SOIL	1	A



eCOC: W42526



Project Information: C178765
Job Received: 2021/10/14 14:26
Results Required By: 2021/10/21 15:00
Expected Arrival: 2021/10/14 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/21 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
EE-SG-10	42	2021/10/13 13:07	SOIL	1	A
EE-SG-11	43	2021/10/13 13:03	SOIL	1	A
EE-RR-01	44	2021/10/13 15:25	SOIL	1	A
EE-RR-02	45	2021/10/13 15:20	SOIL	1	A
EE-RR-03	46	2021/10/13 15:16	SOIL	1	A
EE-RR-04	47	2021/10/13 15:10	SOIL	1	A
EE-RR-05	48	2021/10/13 15:13	SOIL	1	A
EE-RR-06	49	2021/10/13 14:50	SOIL	1	A
EE-RR-07	50	2021/10/13 14:53	SOIL	1	A
EE-RR-08	51	2021/10/13 14:56	SOIL	1	A
EE-RR-09	52	2021/10/13 15:02	SOIL	1	A
EE-RR-09D	53	2021/10/13 15:02	SOIL	1	A
EE-RR-10	54	2021/10/13 15:07	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 54

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/14

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C180124

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	The matrix duplicate RPD for Total Lead (57%) is above the acceptance criteria. All other laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD		X		
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Data Reviewed by (Signature):

Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42703

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/03
Report #: R3094194
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C180124

Received: 2021/10/19, 14:39

Sample Matrix: Soil
Samples Received: 40

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead (1)	5	2021/10/27	2021/10/28	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	13	2021/10/29	2021/10/29	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	13	2021/10/30	2021/10/30	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	9	2021/10/30	2021/10/31	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42703

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/03
Report #: R3094194
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C180124

Received: 2021/10/19, 14:39

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

03 Nov 2021 10:40:24

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**BUREAU
VERITAS**

Bureau Veritas Job #: C180124
Report Date: 2021/11/03

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIQ095		AIQ096		AIQ097		AIQ098	AIQ099		
Sampling Date		2021/10/14 10:10		2021/10/14 10:15		2021/10/14 09:25		2021/10/14 09:34	2021/10/14 09:39		
COC Number		42703		42703		42703		42703	42703		
	UNITS	GE-GE-01	QC Batch	GE-GE-02	QC Batch	GE-GE-03	QC Batch	GE-GE-04	GE-GE-05	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	40	A404233	32	A407857	21	A404233	15	12	0.50	A407857
RDL = Reportable Detection Limit											

Bureau Veritas ID		AIQ100	AIQ101		AIQ102	AIQ103		AIQ104		
Sampling Date		2021/10/14 09:44	2021/10/14 09:50		2021/10/14 09:50	2021/10/14 09:53		2021/10/14 11:42		
COC Number		42703	42703		42703	42703		42703		
	UNITS	GE-GE-06	GE-GE-07	QC Batch	GE-GE-07D	GE-GE-08	QC Batch	GE-EP-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	36	44	A404233	20	55	A407857	30	0.50	A407854
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIQ105	AIQ106	AIQ107	AIQ108	AIQ109	AIQ110	AIQ111		
Sampling Date		2021/10/14 11:37	2021/10/14 11:31	2021/10/14 11:25	2021/10/14 11:17	2021/10/14 11:07	2021/10/14 10:49	2021/10/14 10:52		
COC Number		42703	42703	42703	42703	42703	42703	42703		
	UNITS	GE-EP-02	GE-EP-03	GE-EP-04	GE-EP-05	GE-EP-06	GE-EP-07	GE-EP-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	48	34	64	31	32	79	12	0.50	A407854
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIQ112	AIQ113		AIQ114	AIQ115	AIQ116	AIQ117		
Sampling Date		2021/10/14 10:59	2021/10/14 11:02		2021/10/14 12:12	2021/10/14 12:18	2021/10/14 12:28	2021/10/14 12:31		
COC Number		42703	42703		42703	42703	42703	42703		
	UNITS	GE-EP-09	GE-EP-10	QC Batch	GE-HP-01	GE-HP-02	GE-HP-03	GE-HP-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	17	46	A407854	61	100	110	140	0.50	A406838
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIQ118	AIQ119		AIQ120		AIQ121	AIQ122		
Sampling Date		2021/10/14 12:37	2021/10/14 12:42		2021/10/14 12:53		2021/10/14 12:53	2021/10/14 13:02		
COC Number		42703	42703		42703		42703	42703		
	UNITS	GE-HP-05	GE-HP-06	QC Batch	GE-HP-07	QC Batch	GE-HP-07D	GE-HP-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	54	25	A406838	24	A404233	27	14	0.50	A406838
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C180124

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIQ123	AIQ124	AIQ125		AIQ126	AIQ127	AIQ128		
Sampling Date		2021/10/14 13:13	2021/10/14 13:19	2021/10/14 13:25		2021/10/14 13:44	2021/10/14 13:47	2021/10/14 13:51		
COC Number		42703	42703	42703		42703	42703	42703		
	UNITS	GE-HP-09	GE-HP-10	GE-HP-11	QC Batch	GE-TT-01	GE-TT-02	GE-TT-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	26	34	55	A407854	91	28	81	0.50	A406838
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIQ129	AIQ130		AIQ131	AIQ132	AIQ133	AIQ134		
Sampling Date		2021/10/14 13:57	2021/10/14 13:59		2021/10/14 14:05	2021/10/14 14:08	2021/10/14 14:11	2021/10/14 14:15		
COC Number		42703	42703		42703	42703	42703	42703		
	UNITS	GE-TT-04	GE-TT-05	QC Batch	GE-TT-06	GE-TT-07	GE-TT-08	GE-TT-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	8.1	15	A406838	93	56	87	36	0.50	A407857
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C180124

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.2°C
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Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A404233	MFP	Matrix Spike	Total Lead (Pb)	2021/10/28		103	%	75 - 125
A404233	MFP	QC Standard	Total Lead (Pb)	2021/10/28		115	%	79 - 121
A404233	MFP	Spiked Blank	Total Lead (Pb)	2021/10/28		95	%	80 - 120
A404233	MFP	Method Blank	Total Lead (Pb)	2021/10/28	<0.50		mg/kg	
A404233	MFP	RPD	Total Lead (Pb)	2021/10/28	28		%	35
A406838	KH2	Matrix Spike [AIQ114-01]	Total Lead (Pb)	2021/10/29		NC	%	75 - 125
A406838	KH2	QC Standard	Total Lead (Pb)	2021/10/29		120	%	79 - 121
A406838	KH2	Spiked Blank	Total Lead (Pb)	2021/10/29		107	%	80 - 120
A406838	KH2	Method Blank	Total Lead (Pb)	2021/10/29	<0.50		mg/kg	
A406838	KH2	RPD [AIQ114-01]	Total Lead (Pb)	2021/10/29	4.9		%	35
A407854	KH2	Matrix Spike [AIQ109-01]	Total Lead (Pb)	2021/10/30		95	%	75 - 125
A407854	KH2	QC Standard	Total Lead (Pb)	2021/10/30		120	%	79 - 121
A407854	KH2	Spiked Blank	Total Lead (Pb)	2021/10/30		108	%	80 - 120
A407854	KH2	Method Blank	Total Lead (Pb)	2021/10/30	<0.50		mg/kg	
A407854	KH2	RPD [AIQ109-01]	Total Lead (Pb)	2021/10/30	2.0		%	35
A407857	KH2	Matrix Spike	Total Lead (Pb)	2021/10/31		90	%	75 - 125
A407857	KH2	QC Standard	Total Lead (Pb)	2021/10/31		112	%	79 - 121
A407857	KH2	Spiked Blank	Total Lead (Pb)	2021/10/31		102	%	80 - 120
A407857	KH2	Method Blank	Total Lead (Pb)	2021/10/31	<0.50		mg/kg	
A407857	KH2	RPD	Total Lead (Pb)	2021/11/01	57 (1)		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C180124

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1068
Custody Tracking Form



W42703

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: GE-GE-01
Last Sample: GE-TT-09
Sample Count: 40

Relinquished By				Received By			
Jesse Bursee		Date	2021/10/19	Amarjit Bora	AB	Date	2021/10/19
		Time (24 HR)	11:00			Time (24 HR)	1439
		Date		Reem Phillipos	Reem	Date	2021/10/20
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C180124

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
		N	17.9	18.1	18.5
Y	Y	N	16	15	15
Y	Y	N	15	15	15
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42703



Project Information: C180124
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 16:00
Expected Arrival: 2021/10/19 16:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/10/26 16:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
GE-GE-01	1	2021/10/14 10:10	SOIL	1	A
GE-GE-02	2	2021/10/14 10:15	SOIL	1	A
GE-GE-03	3	2021/10/14 09:25	SOIL	1	A
GE-GE-04	4	2021/10/14 09:34	SOIL	1	A
GE-GE-05	5	2021/10/14 09:39	SOIL	1	A
GE-GE-06	6	2021/10/14 09:44	SOIL	1	A
GE-GE-07	7	2021/10/14 09:50	SOIL	1	A
GE-GE-07D	8	2021/10/14 09:50	SOIL	1	A
GE-GE-08	9	2021/10/14 09:53	SOIL	1	A
GE-EP-01	10	2021/10/14 11:42	SOIL	1	A
GE-EP-02	11	2021/10/14 11:37	SOIL	1	A
GE-EP-03	12	2021/10/14 11:31	SOIL	1	A
GE-EP-04	13	2021/10/14 11:25	SOIL	1	A
GE-EP-05	14	2021/10/14 11:17	SOIL	1	A
GE-EP-06	15	2021/10/14 11:07	SOIL	1	A
GE-EP-07	16	2021/10/14 10:49	SOIL	1	A
GE-EP-08	17	2021/10/14 10:52	SOIL	1	A
GE-EP-09	18	2021/10/14 10:59	SOIL	1	A



eCOC: W42703



Project Information: C180124
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 16:00
Expected Arrival: 2021/10/19 16:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

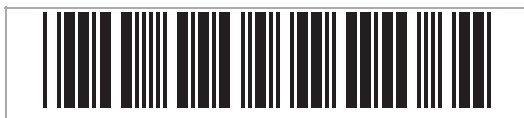
A: 2021/10/26 16:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
GE-EP-10	19	2021/10/14 11:02	SOIL	1	A
GE-HP-01	20	2021/10/14 12:12	SOIL	1	A
GE-HP-02	21	2021/10/14 12:18	SOIL	1	A
GE-HP-03	22	2021/10/14 12:28	SOIL	1	A
GE-HP-04	23	2021/10/14 12:31	SOIL	1	A
GE-HP-05	24	2021/10/14 12:37	SOIL	1	A
GE-HP-06	25	2021/10/14 12:42	SOIL	1	A
GE-HP-07	26	2021/10/14 12:53	SOIL	1	A
GE-HP-07D	27	2021/10/14 12:53	SOIL	1	A
GE-HP-08	28	2021/10/14 13:02	SOIL	1	A
GE-HP-09	29	2021/10/14 13:13	SOIL	1	A
GE-HP-10	30	2021/10/14 13:19	SOIL	1	A
GE-HP-11	31	2021/10/14 13:25	SOIL	1	A
GE-TT-01	32	2021/10/14 13:44	SOIL	1	A
GE-TT-02	33	2021/10/14 13:47	SOIL	1	A
GE-TT-03	34	2021/10/14 13:51	SOIL	1	A
GE-TT-04	35	2021/10/14 13:57	SOIL	1	A
GE-TT-05	36	2021/10/14 13:59	SOIL	1	A
GE-TT-06	37	2021/10/14 14:05	SOIL	1	A
GE-TT-07	38	2021/10/14 14:08	SOIL	1	A
GE-TT-08	39	2021/10/14 14:11	SOIL	1	A
GE-TT-09	40	2021/10/14 14:15	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.



eCOC: W42703



Project Information: C180124
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 16:00
Expected Arrival: 2021/10/19 16:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Submission Information

of Samples: 40

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/15

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C180131

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	The matrix spike recovery for Total Lead (57%) is above the acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			All other laboratory QC met acceptance criteria.
Matrix Duplicate RPD		X		
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42750

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/03
Report #: R3094195
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C180131

Received: 2021/10/19, 14:39

Sample Matrix: Soil
Samples Received: 46

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead (1)	8	2021/10/27	2021/10/28	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	7	2021/10/29	2021/10/29	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	13	2021/10/29	2021/10/30	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	7	2021/10/30	2021/10/30	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	10	2021/10/30	2021/10/31	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/10/30	2021/11/01	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 42750

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/03
Report #: R3094195
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C180131

Received: 2021/10/19, 14:39

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

03 Nov 2021 10:40:43

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C180131

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIQ182		AIQ183		AIQ184		AIQ185	AIQ186		
Sampling Date		2021/10/15 14:21		2021/10/15 14:09		2021/10/15 14:15		2021/10/15 13:41	2021/10/15 13:44		
COC Number		42750		42750		42750		42750	42750		
	UNITS	CH-LS-01	QC Batch	CH-LS-02	QC Batch	CH-LS-03	QC Batch	CH-LS-04	CH-LS-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	88	A407857	13	A407672	15 (1)	A407857	27	55	0.50	A407672
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RDL = Reportable Detection Limit

(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.

Bureau Veritas ID		AIQ187		AIQ188		AIQ189		AIQ190		
Sampling Date		2021/10/15 13:47		2021/10/15 13:51		2021/10/15 13:51		2021/10/15 13:55		
COC Number		42750		42750		42750		42750		
	UNITS	CH-LS-06	QC Batch	CH-LS-07	QC Batch	CH-LS-07D	QC Batch	CH-LS-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	20	A407857	24	A407672	20	A407857	13	0.50	A406838
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ191		AIQ192		AIQ193	AIQ194		AIQ195		
Sampling Date		2021/10/15 13:59		2021/10/15 14:03		2021/10/15 14:32	2021/10/15 14:37		2021/10/15 14:41		
COC Number		42750		42750		42750	42750		42750		
	UNITS	CH-LS-09	QC Batch	CH-LS-10	QC Batch	CH-EW-01	CH-EW-02	QC Batch	CH-EW-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	9.7	A404233	23	A406838	95	41	A404233	45	0.50	A407857
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ196	AIQ197		AIQ198		AIQ199		AIQ200		
Sampling Date		2021/10/15 14:45	2021/10/15 15:41		2021/10/15 14:52		2021/10/15 14:59		2021/10/15 15:10		
COC Number		42750	42750		42750		42750		42750		
	UNITS	CH-EW-04	CH-EW-05	QC Batch	CH-EW-06	QC Batch	CH-EW-07	QC Batch	CH-EW-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	16	82	A407857	94	A404233	24	A407857	81	0.50	A404233
-----------------	-------	----	----	---------	----	---------	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ201	AIQ202		AIQ203	AIQ204	AIQ205	AIQ206		
Sampling Date		2021/10/15 15:13	2021/10/15 15:16		2021/10/15 15:20	2021/10/15 15:20	2021/10/15 15:23	2021/10/15 15:27		
COC Number		42750	42750		42750	42750	42750	42750		
	UNITS	CH-EW-09	CH-EW-10	QC Batch	CH-EW-11	CH-EW-11D	CH-EW-12	CH-EW-13	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	34	190	A404233	41	51	11	15	0.50	A406838
-----------------	-------	----	-----	---------	----	----	----	----	------	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C180131

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIQ207		AIQ208	AIQ209		AIQ210		AIQ211		
Sampling Date		2021/10/15 15:32		2021/10/15 16:05	2021/10/15 16:07		2021/10/15 16:09		2021/10/15 16:11		
COC Number		42750		42750	42750		42750		42750		
	UNITS	CH-EW-14	QC Batch	CH-UT-01	CH-UT-02	QC Batch	CH-UT-03	QC Batch	CH-UT-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	6.1	A404233	46	44	A407857	51	A407672	30	0.50	A407857
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ212		AIQ213	AIQ214	AIQ215		AIQ216		
Sampling Date		2021/10/15 16:14		2021/10/15 16:17	2021/10/15 16:19	2021/10/15 16:21		2021/10/15 16:25		
COC Number		42750		42750	42750	42750		42750		
	UNITS	CH-UT-05	QC Batch	CH-UT-06	CH-UT-07	CH-UT-08	QC Batch	CH-UT-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	46	A407672	25	27	26	A407854	27	0.50	A407672
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ217	AIQ218		AIQ219	AIQ220		AIQ221		
Sampling Date		2021/10/15 14:21	2021/10/15 14:21		2021/10/15 14:21	2021/10/15 14:21		2021/10/15 14:21		
COC Number		42750	42750		42750	42750		42750		
	UNITS	CH-CH-01	CH-CH-01D	QC Batch	CH-CH-02	CH-CH-03	QC Batch	CH-CH-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	35	33	A407672	89	12	A407854	12	0.50	A407672
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ222		AIQ223		AIQ224		AIQ225		
Sampling Date		2021/10/15 14:21		2021/10/15 14:21		2021/10/15 14:21		2021/10/15 14:21		
COC Number		42750		42750		42750		42750		
	UNITS	CH-CH-05	QC Batch	CH-CH-06	QC Batch	CH-CH-07	QC Batch	CH-CH-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	39	A407672	17	A406838	12	A407672	70	0.50	A407854
-----------------	-------	----	---------	----	---------	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ226		AIQ227		
Sampling Date		2021/10/15 14:21		2021/10/15 14:21		
COC Number		42750		42750		
	UNITS	CH-CH-09	QC Batch	CH-CH-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	270	A407672	140	0.50	A407854
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C180131

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.2°C
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Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A404233	MFP	Matrix Spike	Total Lead (Pb)	2021/10/28		103	%	75 - 125
A404233	MFP	QC Standard	Total Lead (Pb)	2021/10/28		115	%	79 - 121
A404233	MFP	Spiked Blank	Total Lead (Pb)	2021/10/28		95	%	80 - 120
A404233	MFP	Method Blank	Total Lead (Pb)	2021/10/28	<0.50		mg/kg	
A404233	MFP	RPD	Total Lead (Pb)	2021/10/28	28		%	35
A406838	KH2	Matrix Spike	Total Lead (Pb)	2021/10/29		NC	%	75 - 125
A406838	KH2	QC Standard	Total Lead (Pb)	2021/10/29		120	%	79 - 121
A406838	KH2	Spiked Blank	Total Lead (Pb)	2021/10/29		107	%	80 - 120
A406838	KH2	Method Blank	Total Lead (Pb)	2021/10/29	<0.50		mg/kg	
A406838	KH2	RPD	Total Lead (Pb)	2021/10/29	4.9		%	35
A407672	KH2	Matrix Spike [AIQ218-01]	Total Lead (Pb)	2021/10/30		112	%	75 - 125
A407672	KH2	QC Standard	Total Lead (Pb)	2021/10/30		118	%	79 - 121
A407672	KH2	Spiked Blank	Total Lead (Pb)	2021/10/30		110	%	80 - 120
A407672	KH2	Method Blank	Total Lead (Pb)	2021/10/30	<0.50		mg/kg	
A407672	KH2	RPD [AIQ218-01]	Total Lead (Pb)	2021/10/30	0.41		%	35
A407854	KH2	Matrix Spike	Total Lead (Pb)	2021/10/30		95	%	75 - 125
A407854	KH2	QC Standard	Total Lead (Pb)	2021/10/30		120	%	79 - 121
A407854	KH2	Spiked Blank	Total Lead (Pb)	2021/10/30		108	%	80 - 120
A407854	KH2	Method Blank	Total Lead (Pb)	2021/10/30	<0.50		mg/kg	
A407854	KH2	RPD	Total Lead (Pb)	2021/10/30	2.0		%	35
A407857	KH2	Matrix Spike [AIQ184-01]	Total Lead (Pb)	2021/10/31		90	%	75 - 125
A407857	KH2	QC Standard	Total Lead (Pb)	2021/10/31		112	%	79 - 121
A407857	KH2	Spiked Blank	Total Lead (Pb)	2021/10/31		102	%	80 - 120
A407857	KH2	Method Blank	Total Lead (Pb)	2021/10/31	<0.50		mg/kg	
A407857	KH2	RPD [AIQ184-01]	Total Lead (Pb)	2021/11/01	57 (1)		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C180131

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1070
Custody Tracking Form



W42750

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: CH-LS-01
Last Sample: CH-UT-09
Sample Count: 46

Relinquished By				Received By			
Jesse Borse		Date	2021/10/19	Amarjit Bhan	AB	Date	2021/10/19
		Time (24 HR)	11:00			Time (24 HR)	1439
		Date		Reem Phillipos	Reem	Date	2021/10/20
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

19-Oct-21 14:39

Parminder Virk
C180131

NMU

INS-0207

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
		N	18.2	18.2	18.3
Y	Y	N	17	16	16
Y	Y	N	14	15	15
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42750



Project Information: C180131
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 15:00
Expected Arrival: 2021/10/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

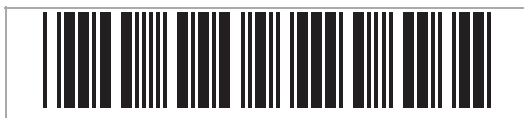
Analytical Summary

A: 2021/10/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CH-LS-01	1	2021/10/15 14:21	SOIL	1	A
CH-LS-02	2	2021/10/15 14:09	SOIL	1	A
CH-LS-03	3	2021/10/15 14:15	SOIL	1	A
CH-LS-04	4	2021/10/15 13:41	SOIL	1	A
CH-LS-05	5	2021/10/15 13:44	SOIL	1	A
CH-LS-06	6	2021/10/15 13:47	SOIL	1	A
CH-LS-07	7	2021/10/15 13:51	SOIL	1	A
CH-LS-07D	8	2021/10/15 13:51	SOIL	1	A
CH-LS-08	9	2021/10/15 13:55	SOIL	1	A
CH-LS-09	10	2021/10/15 13:59	SOIL	1	A
CH-LS-10	11	2021/10/15 14:03	SOIL	1	A
CH-CH-01	12	2021/10/15 15:49	SOIL	1	A
CH-CH-01D	13	2021/10/15 15:49	SOIL	1	A
CH-CH-02	14	2021/10/15 15:41	SOIL	1	A
CH-CH-03	15	2021/10/15 15:37	SOIL	1	A
CH-CH-04	16	2021/10/15 15:32	SOIL	1	A
CH-CH-05	17	2021/10/15 15:26	SOIL	1	A
CH-CH-06	18	2021/10/15 15:21	SOIL	1	A



eCOC: W42750



Project Information: C180131
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 15:00
Expected Arrival: 2021/10/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CH-CH-07	19	2021/10/15 15:17	SOIL	1	A
CH-CH-08	20	2021/10/15 15:14	SOIL	1	A
CH-CH-09	21	2021/10/15 15:16	SOIL	1	A
CH-CH-10	22	2021/10/15 15:10	SOIL	1	A
CH-EW-01	23	2021/10/15 14:32	SOIL	1	A
CH-EW-02	24	2021/10/15 14:37	SOIL	1	A
CH-EW-03	25	2021/10/15 14:41	SOIL	1	A
CH-EW-04	26	2021/10/15 14:45	SOIL	1	A
CH-EW-05	27	2021/10/15 15:41	SOIL	1	A
CH-EW-06	28	2021/10/15 14:52	SOIL	1	A
CH-EW-07	29	2021/10/15 14:59	SOIL	1	A
CH-EW-08	30	2021/10/15 15:10	SOIL	1	A
CH-EW-09	31	2021/10/15 15:13	SOIL	1	A
CH-EW-10	32	2021/10/15 15:16	SOIL	1	A
CH-EW-11	33	2021/10/15 15:20	SOIL	1	A
CH-EW-11D	34	2021/10/15 15:20	SOIL	1	A
CH-EW-12	35	2021/10/15 15:23	SOIL	1	A
CH-EW-13	36	2021/10/15 15:27	SOIL	1	A
CH-EW-14	37	2021/10/15 15:32	SOIL	1	A
CH-UT-01	38	2021/10/15 16:05	SOIL	1	A
CH-UT-02	39	2021/10/15 16:07	SOIL	1	A
CH-UT-03	40	2021/10/15 16:09	SOIL	1	A
CH-UT-04	41	2021/10/15 16:11	SOIL	1	A



eCOC: W42750



Project Information: C180131
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 15:00
Expected Arrival: 2021/10/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CH-UT-05	42	2021/10/15 16:14	SOIL	1	A
CH-UT-06	43	2021/10/15 16:17	SOIL	1	A
CH-UT-07	44	2021/10/15 16:19	SOIL	1	A
CH-UT-08	45	2021/10/15 16:21	SOIL	1	A
CH-UT-09	46	2021/10/15 16:25	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 46

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/15

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Edmonton

Consultant Project Number: 10-12553

BV Labs Job Number: C180132

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	The field duplicate RPD for lead (128%) is beyond the acceptable alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD		X		All other field QC samples met the alert limits.

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42700

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/01
Report #: R3093185
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C180132

Received: 2021/10/19, 14:39

Sample Matrix: Soil
Samples Received: 41

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead (1)	21	2021/10/27	2021/10/28	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	19	2021/10/28	2021/10/29	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/10/30	2021/10/30	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42700

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/01
Report #: R3093185
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C180132

Received: 2021/10/19, 14:39

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

01 Nov 2021 13:08:13

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C180132

Report Date: 2021/11/01

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIQ228		AIQ229	AIQ230	AIQ231		AIQ232		
Sampling Date		2021/10/15 10:20		2021/10/15 10:16	2021/10/15 09:32	2021/10/15 09:37		2021/10/15 09:44		
COC Number		42700		42700	42700	42700		42700		
	UNITS	CH-RE-01	QC Batch	CH-RE-02	CH-RE-03	CH-RE-04	QC Batch	CH-RE-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	5.1	A406002	47	30	28	A404233	11	0.50	A403508
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ233		AIQ234	AIQ235	AIQ236	AIQ237	AIQ238		
Sampling Date		2021/10/15 09:53		2021/10/15 09:49	2021/10/15 10:02	2021/10/15 10:02	2021/10/15 09:56	2021/10/15 10:09		
COC Number		42700		42700	42700	42700	42700	42700		
	UNITS	CH-RE-06	QC Batch	CH-RE-07	CH-RE-08	CH-RE-08D	CH-RE-09	CH-RE-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	68	A403508	32	17	78	19	54	0.50	A406002
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ239		AIQ240	AIQ241	AIQ242		AIQ243		
Sampling Date		2021/10/15 10:11		2021/10/15 09:12	2021/10/15 09:17	2021/10/15 09:21		2021/10/15 10:26		
COC Number		42700		42700	42700	42700		42700		
	UNITS	CH-RE-11	QC Batch	CH-AS-01	CH-AS-02	CH-AS-03	QC Batch	CH-AS-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	85	A403508	64	23	5.4	A406002	32	0.50	A403508
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ244		AIQ245		AIQ246	AIQ247		AIQ248		
Sampling Date		2021/10/15 10:42		2021/10/15 10:50		2021/10/15 10:53	2021/10/15 11:00		2021/10/15 11:05		
COC Number		42700		42700		42700	42700		42700		
	UNITS	CH-AS-05	QC Batch	CH-AS-06	QC Batch	CH-AS-07	CH-AS-08	QC Batch	CH-AS-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	9.1	A403508	24	A406002	100	72	A403508	110	0.50	A406002
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ249		AIQ250	AIQ251		AIQ252	AIQ253		
Sampling Date		2021/10/15 11:26		2021/10/15 11:29	2021/10/15 11:32		2021/10/15 11:35	2021/10/15 11:38		
COC Number		42700		42700	42700		42700	42700		
	UNITS	CH-RD-01	QC Batch	CH-RD-02	CH-RD-03	QC Batch	CH-RD-04	CH-RD-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	14	A406002	48	120	A403508	47	130	0.50	A406002
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C180132
Report Date: 2021/11/01

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIQ254	AIQ255	AIQ256		AIQ257	AIQ258	AIQ259		
Sampling Date		2021/10/15 11:40	2021/10/15 11:43	2021/10/15 11:48		2021/10/15 11:52	2021/10/15 11:55	2021/10/15 12:51		
COC Number		42700	42700	42700		42700	42700	42700		
	UNITS	CH-RD-06	CH-RD-07	CH-RD-08	QC Batch	CH-RD-09	CH-RD-10	CH-EE-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	55	3.4	47	A406002	62	130	49	0.50	A403508
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ260		AIQ261		AIQ262		AIQ263		
Sampling Date		2021/10/15 12:47		2021/10/15 12:42		2021/10/15 12:32		2021/10/15 12:36		
COC Number		42700		42700		42700		42700		
	UNITS	CH-EE-02	QC Batch	CH-EE-03	QC Batch	CH-EE-04	QC Batch	CH-EE-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	39	A404233	36	A403508	46	A406002	10	0.50	A404233
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RDL = Reportable Detection Limit

Bureau Veritas ID		AIQ264	AIQ265		AIQ266		AIQ267	AIQ268		
Sampling Date		2021/10/15 13:10	2021/10/15 12:59		2021/10/15 12:20		2021/10/15 12:27	2021/10/15 12:28		
COC Number		42700	42700		42700		42700	42700		
	UNITS	CH-EE-06	CH-EE-07	QC Batch	CH-EE-08	QC Batch	CH-EE-09	CH-EE-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	4.0	12	A406002	15	A403508	16	77	0.50	A404233
-----------------	-------	-----	----	---------	----	---------	----	----	------	---------

RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.9°C
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Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A403508	MFP	Matrix Spike	Total Lead (Pb)	2021/10/28		100	%	75 - 125
A403508	MFP	QC Standard	Total Lead (Pb)	2021/10/28		110	%	79 - 121
A403508	MFP	Spiked Blank	Total Lead (Pb)	2021/10/28		93	%	80 - 120
A403508	MFP	Method Blank	Total Lead (Pb)	2021/10/28	<0.50		mg/kg	
A403508	MFP	RPD	Total Lead (Pb)	2021/10/28	0.20		%	35
A404233	MFP	Matrix Spike [AIQ231-01]	Total Lead (Pb)	2021/10/28		103	%	75 - 125
A404233	MFP	QC Standard	Total Lead (Pb)	2021/10/28		115	%	79 - 121
A404233	MFP	Spiked Blank	Total Lead (Pb)	2021/10/28		95	%	80 - 120
A404233	MFP	Method Blank	Total Lead (Pb)	2021/10/28	<0.50		mg/kg	
A404233	MFP	RPD [AIQ231-01]	Total Lead (Pb)	2021/10/28	28		%	35
A406002	KH2	Matrix Spike [AIQ240-01]	Total Lead (Pb)	2021/10/30		NC	%	75 - 125
A406002	KH2	QC Standard	Total Lead (Pb)	2021/10/29		107	%	79 - 121
A406002	KH2	Spiked Blank	Total Lead (Pb)	2021/10/29		107	%	80 - 120
A406002	KH2	Method Blank	Total Lead (Pb)	2021/10/29	<0.50		mg/kg	
A406002	KH2	RPD [AIQ240-01]	Total Lead (Pb)	2021/10/30	14		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C180132

Report Date: 2021/11/01

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Maria Magdalena Florescu, Ph.D., P.Chem., QP, Inorganics Manager

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1069
Custody Tracking Form



W42700

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: CH-RE-01
Last Sample: CH-EE-10
Sample Count: 41

Relinquished By				Received By			
Jesse Bursee		Date	2021/10/19	Amanjit Bawa	AB	Date	2021/10/19
		Time (24 HR)	11:00			Time (24 HR)	1439
		Date		Reem Phillipos	RM	Date	2021/10/20
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

19-Oct-21 14:39
Parminder Virk
C180132
NMU INS-0042

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
		N	17.9	17.9	17.9
yes	yes	N	15	14	14
Y	Y	N	16	16	15
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42700



Project Information: C180132
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 15:00
Expected Arrival: 2021/10/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/10/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CH-RE-01	1	2021/10/15 10:20	SOIL	1	A
CH-RE-02	2	2021/10/15 10:16	SOIL	1	A
CH-RE-03	3	2021/10/15 09:32	SOIL	1	A
CH-RE-04	4	2021/10/15 09:37	SOIL	1	A
CH-RE-05	5	2021/10/15 09:44	SOIL	1	A
CH-RE-06	6	2021/10/15 09:53	SOIL	1	A
CH-RE-07	7	2021/10/15 09:49	SOIL	1	A
CH-RE-08	8	2021/10/15 10:02	SOIL	1	A
CH-RE-08D	9	2021/10/15 10:02	SOIL	1	A
CH-RE-09	10	2021/10/15 09:56	SOIL	1	A
CH-RE-10	11	2021/10/15 10:09	SOIL	1	A
CH-RE-11	12	2021/10/15 10:11	SOIL	1	A
CH-AS-01	13	2021/10/15 09:12	SOIL	1	A
CH-AS-02	14	2021/10/15 09:17	SOIL	1	A
CH-AS-03	15	2021/10/15 09:21	SOIL	1	A
CH-AS-04	16	2021/10/15 10:26	SOIL	1	A
CH-AS-05	17	2021/10/15 10:42	SOIL	1	A
CH-AS-06	18	2021/10/15 10:50	SOIL	1	A



eCOC: W42700



Project Information: C180132
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 15:00
Expected Arrival: 2021/10/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CH-AS-07	19	2021/10/15 10:53	SOIL	1	A
CH-AS-08	20	2021/10/15 11:00	SOIL	1	A
CH-AS-09	21	2021/10/15 11:05	SOIL	1	A
CH-RD-01	22	2021/10/15 11:26	SOIL	1	A
CH-RD-02	23	2021/10/15 11:29	SOIL	1	A
CH-RD-03	24	2021/10/15 11:32	SOIL	1	A
CH-RD-04	25	2021/10/15 11:35	SOIL	1	A
CH-RD-05	26	2021/10/15 11:38	SOIL	1	A
CH-RD-06	27	2021/10/15 11:40	SOIL	1	A
CH-RD-07	28	2021/10/15 11:43	SOIL	1	A
CH-RD-08	29	2021/10/15 11:48	SOIL	1	A
CH-RD-09	30	2021/10/15 11:52	SOIL	1	A
CH-RD-10	31	2021/10/15 11:55	SOIL	1	A
CH-EE-01	32	2021/10/15 12:51	SOIL	1	A
CH-EE-02	33	2021/10/15 12:47	SOIL	1	A
CH-EE-03	34	2021/10/15 12:42	SOIL	1	A
CH-EE-04	35	2021/10/15 12:32	SOIL	1	A
CH-EE-05	36	2021/10/15 12:36	SOIL	1	A
CH-EE-06	37	2021/10/15 13:10	SOIL	1	A
CH-EE-07	38	2021/10/15 12:59	SOIL	1	A
CH-EE-08	39	2021/10/15 12:20	SOIL	1	A
CH-EE-09	40	2021/10/15 12:27	SOIL	1	A
CH-EE-10	41	2021/10/15 12:28	SOIL	1	A



eCOC: W42700



Project Information: C180132
Job Received: 2021/10/19 14:39
Results Required By: 2021/10/26 15:00
Expected Arrival: 2021/10/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 41

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C181014

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42829

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/03
Report #: R3094344
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181014

Received: 2021/10/21, 11:20

Sample Matrix: Soil
Samples Received: 57

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	17	2021/10/26	2021/10/27	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	19	2021/10/26	2021/10/31	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/10/26	2021/11/01	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/10/31	2021/11/02	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42829

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/03
Report #: R3094344
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181014

Received: 2021/10/21, 11:20

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

03 Nov 2021 14:42:14

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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**ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)**

Bureau Veritas ID		AIV557	AIV558	AIV559	AIV560	AIV561	AIV562	AIV563		
Sampling Date		2021/10/18 10:06	2021/10/18 10:09	2021/10/18 10:12	2021/10/18 10:16	2021/10/18 10:19	2021/10/18 10:23	2021/10/18 10:27		
COC Number		42829	42829	42829	42829	42829	42829	42829		
	UNITS	RO-FP-01	RO-FP-02	RO-FP-03	RO-FP-04	RO-FP-05	RO-FP-06	RO-FP-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	59	160	13	19	22	17	25	1.0	A408707
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIV564	AIV565	AIV566	AIV567	AIV568	AIV569	AIV570		
Sampling Date		2021/10/18 10:32	2021/10/18 10:39	2021/10/18 11:43	2021/10/18 11:47	2021/10/18 11:50	2021/10/18 11:52	2021/10/18 11:59		
COC Number		42829	42829	42829	42829	42829	42829	42829		
	UNITS	RO-FP-08	RO-FP-09	RO-FP-10	RO-FP-11	RO-FP-12	RO-FP-13	RO-FP-14	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	12	65	48	12	69	47	130	1.0	A408707
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIV571	AIV572		AIV573		AIV574		AIV575		
Sampling Date		2021/10/18 11:59	2021/10/18 12:05		2021/10/18 11:01		2021/10/18 11:05		2021/10/18 11:09		
COC Number		42829	42829		42829		42829		42829		
	UNITS	RO-FP-14D	RO-FP-15	QC Batch	RO-FS-01	QC Batch	RO-FS-02	QC Batch	RO-FS-03	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	130	99	A408707	11	A402112	9.4	A402582	14	1.0	A402112
RDL = Reportable Detection Limit											

Bureau Veritas ID		AIV576	AIV577		AIV578		AIV579		AIV580		
Sampling Date		2021/10/18 11:11	2021/10/18 11:15		2021/10/18 11:17		2021/10/18 11:19		2021/10/18 11:22		
COC Number		42829	42829		42829		42829		42829		
	UNITS	RO-FS-04	RO-FS-05	QC Batch	RO-FS-06	QC Batch	RO-FS-07	QC Batch	RO-FS-08	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	17	15	A408707	14	A402112	16	A402582	13	1.0	A408707
RDL = Reportable Detection Limit											

Bureau Veritas ID		AIV581		AIV582		AIV583		AIV584		
Sampling Date		2021/10/18 11:25		2021/10/18 11:27		2021/10/18 12:27		2021/10/18 12:30		
COC Number		42829		42829		42829		42829		
	UNITS	RO-FS-09	QC Batch	RO-FS-10	QC Batch	RO-SS-01	QC Batch	RO-SS-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	19	A408707	17	A402112	38	A402582	83	1.0	A402112
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C181014
Report Date: 2021/11/03

PARSONS INC.
Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIV585	AIV586	AIV587	AIV588	AIV589	AIV590	AIV591		
Sampling Date		2021/10/18 12:32	2021/10/18 12:34	2021/10/18 12:39	2021/10/18 12:41	2021/10/18 12:45	2021/10/18 13:10	2021/10/18 13:16		
COC Number		42829	42829	42829	42829	42829	42829	42829		
	UNITS	RO-SS-03	RO-SS-04	RO-SS-05	RO-SS-06	RO-SS-07	RO-GJ-01	RO-GJ-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	43	26	47	30	31	36	35	1.0	A402582
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIV592		AIV593		AIV594	AIV595	AIV596		
Sampling Date		2021/10/18 13:19		2021/10/18 13:21		2021/10/18 13:25	2021/10/18 13:29	2021/10/18 13:13		
COC Number		42829		42829		42829	42829	42829		
	UNITS	RO-GJ-03	QC Batch	RO-GJ-04	QC Batch	RO-GJ-05	RO-GJ-06	RO-GJ-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	27	A402582	21	A402112	17	19	12	1.0	A402582
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIV597	AIV598		AIV599	AIV600	AIV601		
Sampling Date		2021/10/18 13:40	2021/10/18 13:49		2021/10/18 13:53	2021/10/18 13:59	2021/10/18 14:06		
COC Number		42829	42829		42829	42829	42829		
	UNITS	RO-MP-01	RO-MP-02	QC Batch	RO-MP-03	RO-MP-04	RO-MP-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	150	100	A402582	15	50	46	1.0	A402112	
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIV602		AIV603	AIV604	AIV605	AIV606	AIV607		
Sampling Date		2021/10/18 14:07		2021/10/18 14:13	2021/10/18 14:17	2021/10/18 14:24	2021/10/18 14:33	2021/10/18 14:37		
COC Number		42829		42829	42829	42829	42829	42829		
	UNITS	RO-MP-06	QC Batch	RO-MP-07	RO-MP-08	RO-MP-09	RO-MP-10	RO-MP-11	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	56	A402582	130	24	28	160	27	1.0	A402112
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIV608	AIV609	AIV610	AIV611	AIV612	AIV613		
Sampling Date		2021/10/18 14:41	2021/10/18 14:45	2021/10/18 14:45	2021/10/18 14:50	2021/10/18 14:29	2021/10/18 13:45		
COC Number		42829	42829	42829	42829	42829	42829		
	UNITS	RO-MP-12	RO-MP-13	RO-MP-13D	RO-MP-14	RO-MP-15	RO-MP-16	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	21	50	59	66	50	260	1.0	A402112	
RDL = Reportable Detection Limit										



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.4°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AIV557 [RO-FP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV558 [RO-FP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV559 [RO-FP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV560 [RO-FP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV561 [RO-FP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV562 [RO-FP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV563 [RO-FP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV564 [RO-FP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV565 [RO-FP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV566 [RO-FP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV567 [RO-FP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV568 [RO-FP-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV569 [RO-FP-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV570 [RO-FP-14] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV571 [RO-FP-14D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV572 [RO-FP-15] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV573 [RO-FS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV574 [RO-FS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV575 [RO-FS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV576 [RO-FS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV577 [RO-FS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV578 [RO-FS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV579 [RO-FS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV580 [RO-FS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV581 [RO-FS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV582 [RO-FS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV583 [RO-SS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV584 [RO-SS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV585 [RO-SS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV586 [RO-SS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV587 [RO-SS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV588 [RO-SS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV589 [RO-SS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV590 [RO-GJ-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV591 [RO-GJ-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV592 [RO-GJ-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV593 [RO-GJ-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV594 [RO-GJ-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV595 [RO-GJ-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV596 [RO-GJ-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV597 [RO-MP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV598 [RO-MP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV599 [RO-MP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV600 [RO-MP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV601 [RO-MP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV602 [RO-MP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV603 [RO-MP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV604 [RO-MP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV605 [RO-MP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV606 [RO-MP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV607 [RO-MP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV608 [RO-MP-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV609 [RO-MP-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV610 [RO-MP-13D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV611 [RO-MP-14] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV612 [RO-MP-15] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIV613 [RO-MP-16] Lead: Detection limits raised based on sample weight used for analysis.



**BUREAU
VERITAS**

Bureau Veritas Job #: C181014
Report Date: 2021/11/03

PARSONS INC.
Client Project #: 10-12553

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A402112	KH2	Matrix Spike [AIV605-01]	Total Lead (Pb)	2021/10/31		94	%	75 - 125
A402112	KH2	QC Standard	Total Lead (Pb)	2021/10/31		118	%	79 - 121
A402112	KH2	Spiked Blank	Total Lead (Pb)	2021/10/31		99	%	80 - 120
A402112	KH2	Method Blank	Total Lead (Pb)	2021/10/31	<0.50		mg/kg	
A402112	KH2	RPD [AIV605-01]	Total Lead (Pb)	2021/10/31	0.40		%	35
A402582	MFP	Matrix Spike [AIV596-01]	Total Lead (Pb)	2021/10/27		91	%	75 - 125
A402582	MFP	QC Standard	Total Lead (Pb)	2021/10/27		111	%	79 - 121
A402582	MFP	Spiked Blank	Total Lead (Pb)	2021/10/27		95	%	80 - 120
A402582	MFP	Method Blank	Total Lead (Pb)	2021/10/27	<0.50		mg/kg	
A402582	MFP	RPD [AIV596-01]	Total Lead (Pb)	2021/10/27	4.2		%	35
A408707	LQ1	Matrix Spike [AIV568-01]	Total Lead (Pb)	2021/11/02		NC	%	75 - 125
A408707	LQ1	QC Standard	Total Lead (Pb)	2021/11/02		112	%	79 - 121
A408707	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/02		99	%	80 - 120
A408707	LQ1	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A408707	LQ1	RPD [AIV568-01]	Total Lead (Pb)	2021/11/02	12		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C181014

Report Date: 2021/11/03

PARSONS INC.

Client Project #: 10-12553

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1247
Custody Tracking Form



W42829

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: RO-FP-01
Last Sample: RO-MP-16
Sample Count: 57

Relinquished By				Received By			
Jesse Buree		Date	2021/10/20	Brooklyn Hierbert	BA	Date	2021/10/21
		Time (24 HR)	13:30			Time (24 HR)	1120
		Date		Reem Phillipos	Reem	Date	2021/10/22
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Immediate Test <input type="checkbox"/>	Food Residue <input type="checkbox"/>
Adam Wiebe	1	Micro <input type="checkbox"/>		Food Chemistry <input type="checkbox"/>

*** LABORATORY USE ONLY ***

Received At Lab Comments:

Labeled By

Verified By

C181014

MCA

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	16.7	17.1	18.3
Y	Y	N	14	13	13
Y	Y	N	12	12	12
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42829



Project Information: C181014
Job Received: 2021/10/21 11:20
Results Required By: 2021/10/28 14:00
Expected Arrival: 2021/10/21 14:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

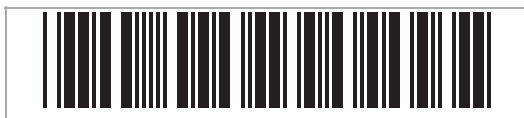
Analytical Summary

A: 2021/10/28 14:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RO-FP-01	1	2021/10/18 10:06	SOIL	1	A
RO-FP-02	2	2021/10/18 10:09	SOIL	1	A
RO-FP-03	3	2021/10/18 10:12	SOIL	1	A
RO-FP-04	4	2021/10/18 10:16	SOIL	1	A
RO-FP-05	5	2021/10/18 10:19	SOIL	1	A
RO-FP-06	6	2021/10/18 10:23	SOIL	1	A
RO-FP-07	7	2021/10/18 10:27	SOIL	1	A
RO-FP-08	8	2021/10/18 10:32	SOIL	1	A
RO-FP-09	9	2021/10/18 10:39	SOIL	1	A
RO-FP-10	10	2021/10/18 11:43	SOIL	1	A
RO-FP-11	11	2021/10/18 11:47	SOIL	1	A
RO-FP-12	12	2021/10/18 11:50	SOIL	1	A
RO-FP-13	13	2021/10/18 11:52	SOIL	1	A
RO-FP-14	14	2021/10/18 11:59	SOIL	1	A
RO-FP-14D	15	2021/10/18 11:59	SOIL	1	A
RO-FP-15	16	2021/10/18 12:05	SOIL	1	A
RO-FS-01	17	2021/10/18 11:01	SOIL	1	A
RO-FS-02	18	2021/10/18 11:05	SOIL	1	A



eCOC: W42829



Project Information: C181014
Job Received: 2021/10/21 11:20
Results Required By: 2021/10/28 14:00
Expected Arrival: 2021/10/21 14:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/28 14:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RO-FS-03	19	2021/10/18 11:09	SOIL	1	A
RO-FS-04	20	2021/10/18 11:11	SOIL	1	A
RO-FS-05	21	2021/10/18 11:15	SOIL	1	A
RO-FS-06	22	2021/10/18 11:17	SOIL	1	A
RO-FS-07	23	2021/10/18 11:19	SOIL	1	A
RO-FS-08	24	2021/10/18 11:22	SOIL	1	A
RO-FS-09	25	2021/10/18 11:25	SOIL	1	A
RO-FS-10	26	2021/10/18 11:27	SOIL	1	A
RO-SS-01	27	2021/10/18 12:27	SOIL	1	A
RO-SS-02	28	2021/10/18 12:30	SOIL	1	A
RO-SS-03	29	2021/10/18 12:32	SOIL	1	A
RO-SS-04	30	2021/10/18 12:34	SOIL	1	A
RO-SS-05	31	2021/10/18 12:39	SOIL	1	A
RO-SS-06	32	2021/10/18 12:41	SOIL	1	A
RO-SS-07	33	2021/10/18 12:45	SOIL	1	A
RO-GJ-01	34	2021/10/18 13:10	SOIL	1	A
RO-GJ-02	35	2021/10/18 13:16	SOIL	1	A
RO-GJ-03	36	2021/10/18 13:19	SOIL	1	A
RO-GJ-04	37	2021/10/18 13:21	SOIL	1	A
RO-GJ-05	38	2021/10/18 13:25	SOIL	1	A
RO-GJ-06	39	2021/10/18 13:29	SOIL	1	A
RO-GJ-07	40	2021/10/18 13:13	SOIL	1	A
RO-MP-01	41	2021/10/18 13:40	SOIL	1	A



eCOC: W42829



Project Information: C181014
Job Received: 2021/10/21 11:20
Results Required By: 2021/10/28 14:00
Expected Arrival: 2021/10/21 14:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/28 14:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RO-MP-02	42	2021/10/18 13:49	SOIL	1	A
RO-MP-03	43	2021/10/18 13:53	SOIL	1	A
RO-MP-04	44	2021/10/18 13:59	SOIL	1	A
RO-MP-05	45	2021/10/18 14:06	SOIL	1	A
RO-MP-06	46	2021/10/18 14:07	SOIL	1	A
RO-MP-07	47	2021/10/18 14:13	SOIL	1	A
RO-MP-08	48	2021/10/18 14:17	SOIL	1	A
RO-MP-09	49	2021/10/18 14:24	SOIL	1	A
RO-MP-10	50	2021/10/18 14:33	SOIL	1	A
RO-MP-11	51	2021/10/18 14:37	SOIL	1	A
RO-MP-12	52	2021/10/18 14:41	SOIL	1	A
RO-MP-13	53	2021/10/18 14:45	SOIL	1	A
RO-MP-13D	54	2021/10/18 14:45	SOIL	1	A
RO-MP-14	55	2021/10/18 14:50	SOIL	1	A
RO-MP-15	56	2021/10/18 14:29	SOIL	1	A
RO-MP-16	57	2021/10/18 13:45	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 57

eCOC Change Log

Modified By	Date Modified	Changes	Comments
Jesse Bursee	20 Oct 21 14:38:26	Shipping Information	

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/19

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C181113

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42933

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/09
Report #: R3097008
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C181113

Received: 2021/10/22, 16:20

Sample Matrix: Soil
Samples Received: 51

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead	4	2021/10/29	2021/10/30	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	11	2021/11/01	2021/11/02	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	13	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	22	2021/11/03	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	1	2021/11/08	2021/11/08	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 42933

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/09
Report #: R3097008
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C181113

Received: 2021/10/22, 16:20

Encryption Key

Parminder Virk
Key Account Specialist
10 Nov 2021 08:54:44

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C181113

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIW274		AIW275	AIW276			AIW277		
Sampling Date		2021/10/19 09:31		2021/10/19 09:33	2021/10/19 09:33			2021/10/19 09:36		
COC Number		42933		42933	42933			42933		
	UNITS	LR-NS-01	QC Batch	LR-NS-02	LR-NS-02D	RDL	QC Batch	LR-NS-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	28	A412811	120	120	1.0	A407672	36	0.50	A412811
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIW278	AIW279			AIW280			AIW281	AIW282		
Sampling Date		2021/10/19 09:41	2021/10/19 09:45			2021/10/19 09:49			2021/10/19 09:53	2021/10/19 09:57		
COC Number		42933	42933			42933			42933	42933		
	UNITS	LR-NS-04	LR-NS-05	RDL	QC Batch	LR-NS-06	RDL	QC Batch	LR-NS-07	LR-NS-08	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	47	59	0.50	A410876	20	1.0	A411301	42	28	0.50	A410876
RDL = Reportable Detection Limit												

Bureau Veritas ID		AIW283				AIW284			AIW285	AIW286		
Sampling Date		2021/10/19 10:06				2021/10/19 10:02			2021/10/19 10:11	2021/10/19 10:19		
COC Number		42933				42933			42933	42933		
	UNITS	LR-NS-09	RDL	QC Batch	LR-NS-10	RDL	QC Batch	LR-NS-11	LR-NS-12	RDL	QC Batch	

Elements												
Total Lead (Pb)	mg/kg	180	1.0	A411824	130	0.50	A409092	67	100	1.0	A411301	
RDL = Reportable Detection Limit												

Bureau Veritas ID		AIW287		AIW288		AIW289		AIW290	AIW291		
Sampling Date		2021/10/19 10:16		2021/10/19 10:42		2021/10/19 10:46		2021/10/19 10:49	2021/10/19 10:52		
COC Number		42933		42933		42933		42933	42933		
	UNITS	LR-NS-13	QC Batch	LR-WJ-01	RDL	LR-WJ-02	QC Batch	LR-WJ-03	LR-WJ-04	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	120	A409092	23	1.0	43	A411824	38	43	0.50	A411805
RDL = Reportable Detection Limit											

Bureau Veritas ID		AIW292		AIW293		AIW294			AIW295		
Sampling Date		2021/10/19 10:53		2021/10/19 10:57		2021/10/19 11:01			2021/10/19 11:05		
COC Number		42933		42933		42933			42933		
	UNITS	LR-WJ-05	QC Batch	LR-WJ-06	QC Batch	LR-WJ-07	RDL	QC Batch	LR-WJ-08	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	22	A411805	7.9	A409092	7.2	0.50	A411805	74	1.0	A409092
RDL = Reportable Detection Limit											

BUREAU
VERITAS

Bureau Veritas Job #: C181113

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIW296	AIW297		AIW298	AIW299	AIW300		
Sampling Date		2021/10/19 11:08	2021/10/19 11:11		2021/10/19 11:15	2021/10/19 11:17	2021/10/19 11:21		
COC Number		42933	42933		42933	42933	42933		
	UNITS	LR-WJ-09	LR-WJ-10	QC Batch	LR-WJ-11	LR-WJ-12	LR-WJ-13	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	99	110	A412811	120	29	33	1.0	A411824
RDL = Reportable Detection Limit									

Bureau Veritas ID		AIW301		AIW302		AIW303	AIW304		
Sampling Date		2021/10/19 11:21		2021/10/19 11:40		2021/10/19 11:47	2021/10/19 11:47		
COC Number		42933		42933		42933	42933		
	UNITS	LR-WJ-13D	QC Batch	LR-BA-01	QC Batch	LR-BA-02	LR-BA-02D	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	36	A412811	130	A411273	47	47	1.0	A407672
RDL = Reportable Detection Limit									

Bureau Veritas ID		AIW305		AIW306		AIW307			AIW308		
Sampling Date		2021/10/19 11:57		2021/10/19 12:05		2021/10/19 12:09			2021/10/19 12:11		
COC Number		42933		42933		42933			42933		
	UNITS	LR-BA-03	QC Batch	LR-BA-04	QC Batch	LR-BA-05	RDL	QC Batch	LR-BA-06	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	46	A410876	16	A411805	25	0.50	A410876	22	1.0	A411824
RDL = Reportable Detection Limit											

Bureau Veritas ID		AIW309	AIW310			AIW311	AIW312			AIW313		
Sampling Date		2021/10/19 12:01	2021/10/19 11:52			2021/10/19 11:43	2021/10/19 12:59			2021/10/19 13:09		
COC Number		42933	42933			42933	42933			42933		
	UNITS	LR-BA-07	LR-BA-08	RDL	QC Batch	LR-BA-09	LR-LC-01	RDL	QC Batch	LR-LC-02	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	24	43	1.0	A409092	120	13	0.50	A411301	7.7	1.0	A411805
RDL = Reportable Detection Limit												

Bureau Veritas ID		AIW314		AIW315		AIW316			AIW317		
Sampling Date		2021/10/19 13:09		2021/10/19 13:11		2021/10/19 13:15			2021/10/19 13:17		
COC Number		42933		42933		42933			42933		
	UNITS	LR-LC-02D	QC Batch	LR-LC-03	QC Batch	LR-LC-04	RDL	QC Batch	LR-LC-05	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	5.1	A411824	6.8	A409092	11	1.0	A411824	6.6	0.50	A411805
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C181113

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AIW318			AIW319	AIW320		AIW321		
Sampling Date		2021/10/19 13:21			2021/10/19 13:26	2021/10/19 13:29		2021/10/19 13:32		
COC Number		42933			42933	42933		42933		
	UNITS	LR-LC-06	RDL	QC Batch	LR-LC-07	LR-LC-08	QC Batch	LR-LC-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	57	1.0	A409092	45	42	A412811	16	0.50	A410876
RDL = Reportable Detection Limit										

Bureau Veritas ID		AIW322	AIW323	AIW324		
Sampling Date		2021/10/19 13:41	2021/10/19 13:37	2021/10/19 13:02		
COC Number		42933	42933	42933		
	UNITS	LR-LC-10	LR-LC-11	LR-LC-12	RDL	QC Batch

Elements						
Total Lead (Pb)	mg/kg	49	26	8.5	1.0	A409092
RDL = Reportable Detection Limit						



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.5°C
-----------	--------

Report re-issued with updated Lead results for LR-NS-03 (AIW277) due to re-analysis as per client request on 2021.11.08.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AIW274 [LR-NS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW275 [LR-NS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW276 [LR-NS-02D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW280 [LR-NS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW283 [LR-NS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW285 [LR-NS-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW286 [LR-NS-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW287 [LR-NS-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW288 [LR-WJ-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW295 [LR-WJ-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW296 [LR-WJ-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW297 [LR-WJ-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW298 [LR-WJ-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW299 [LR-WJ-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW300 [LR-WJ-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW301 [LR-WJ-13D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW302 [LR-BA-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW303 [LR-BA-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW304 [LR-BA-02D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW308 [LR-BA-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW309 [LR-BA-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW310 [LR-BA-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW313 [LR-LC-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW314 [LR-LC-02D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW315 [LR-LC-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW316 [LR-LC-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW318 [LR-LC-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW322 [LR-LC-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW323 [LR-LC-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AIW324 [LR-LC-12] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C181113

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A407672	KH2	Matrix Spike	Total Lead (Pb)	2021/10/30		112	%	75 - 125
A407672	KH2	QC Standard	Total Lead (Pb)	2021/10/30		118	%	79 - 121
A407672	KH2	Spiked Blank	Total Lead (Pb)	2021/10/30		110	%	80 - 120
A407672	KH2	Method Blank	Total Lead (Pb)	2021/10/30	<0.50		mg/kg	
A407672	KH2	RPD	Total Lead (Pb)	2021/10/30	0.41		%	35
A409092	LQ1	Matrix Spike [AIW310-01]	Total Lead (Pb)	2021/11/02		99	%	75 - 125
A409092	LQ1	QC Standard	Total Lead (Pb)	2021/11/02		113	%	79 - 121
A409092	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/02		103	%	80 - 120
A409092	LQ1	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A409092	LQ1	RPD [AIW310-01]	Total Lead (Pb)	2021/11/02	30		%	35
A410876	KH2	Matrix Spike	Total Lead (Pb)	2021/11/03		118	%	75 - 125
A410876	KH2	QC Standard	Total Lead (Pb)	2021/11/03		113	%	79 - 121
A410876	KH2	Spiked Blank	Total Lead (Pb)	2021/11/03		100	%	80 - 120
A410876	KH2	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A410876	KH2	RPD	Total Lead (Pb)	2021/11/03	5.5		%	35
A411273	MFP	Matrix Spike [AIW302-01]	Total Lead (Pb)	2021/11/03		NC	%	75 - 125
A411273	MFP	QC Standard	Total Lead (Pb)	2021/11/03		112	%	79 - 121
A411273	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		100	%	80 - 120
A411273	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411273	MFP	RPD [AIW302-01]	Total Lead (Pb)	2021/11/03	3.0		%	35
A411301	MFP	Matrix Spike [AIW311-01]	Total Lead (Pb)	2021/11/03		NC	%	75 - 125
A411301	MFP	QC Standard	Total Lead (Pb)	2021/11/03		112	%	79 - 121
A411301	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		105	%	80 - 120
A411301	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411301	MFP	RPD [AIW311-01]	Total Lead (Pb)	2021/11/03	0.59		%	35
A411805	MFP	Matrix Spike [AIW292-01]	Total Lead (Pb)	2021/11/04		110	%	75 - 125
A411805	MFP	QC Standard	Total Lead (Pb)	2021/11/05		102	%	79 - 121
A411805	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		106	%	80 - 120
A411805	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A411805	MFP	RPD [AIW292-01]	Total Lead (Pb)	2021/11/04	24		%	35
A411824	MFP	Matrix Spike	Total Lead (Pb)	2021/11/04		91	%	75 - 125
A411824	MFP	QC Standard	Total Lead (Pb)	2021/11/04		112	%	79 - 121
A411824	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A411824	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A411824	MFP	RPD	Total Lead (Pb)	2021/11/04	12		%	35
A412811	LQ1	Matrix Spike [AIW319-01]	Total Lead (Pb)	2021/11/04		118	%	75 - 125
A412811	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		118	%	79 - 121
A412811	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A412811	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412811	LQ1	RPD [AIW319-01]	Total Lead (Pb)	2021/11/04	23		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C181113
Report Date: 2021/11/09

PARSONS INC.
Client Project #: 10-12553

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sandy Yuan, M.Sc., QP, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W42933

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: LR-NS-01
Last Sample: LR-LC-12
Sample Count: 51

Relinquished By				Received By			
Jesse Burrer		Date	2021/10/22	Brooklyn Hienent	BH	Date	2021/10/22
		Time (24 HR)	11:45			Time (24 HR)	1620
		Date		Adam Fismeyh	SZ	Date	2021/10/27
		Time (24 HR)				Time (24 HR)	0955
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐Immediate Test ☐Food Residue ☐Micro ☐Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

C181113

~~accidentally signed off~~~~needs inspection after AFT~~

On 2021/10/26

Labeled By

SKY

Verified By

MIA

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.3	18.5	17.7
Y	Y	Y	ACTR		
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42933



Project Information: C181113
Job Received: 2021/10/23 11:16
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
jesse.bursee@parsons.com
calgary.labreport@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

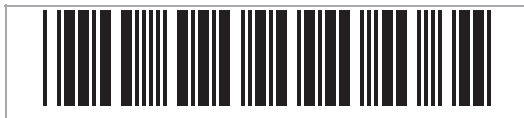
Analytical Summary

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LR-NS-01	1	2021/10/19 09:31	SOIL	1	A
LR-NS-02	2	2021/10/19 09:33	SOIL	1	A
LR-NS-02D	3	2021/10/19 09:33	SOIL	1	A
LR-NS-03	4	2021/10/19 09:36	SOIL	1	A
LR-NS-04	5	2021/10/19 09:41	SOIL	1	A
LR-NS-05	6	2021/10/19 09:45	SOIL	1	A
LR-NS-06	7	2021/10/19 09:49	SOIL	1	A
LR-NS-07	8	2021/10/19 09:53	SOIL	1	A
LR-NS-08	9	2021/10/19 09:57	SOIL	1	A
LR-NS-09	10	2021/10/19 10:06	SOIL	1	A
LR-NS-10	11	2021/10/19 10:02	SOIL	1	A
LR-NS-11	12	2021/10/19 10:11	SOIL	1	A
LR-NS-12	13	2021/10/19 10:19	SOIL	1	A
LR-NS-13	14	2021/10/19 10:16	SOIL	1	A
LR-WJ-01	15	2021/10/19 10:42	SOIL	1	A
LR-WJ-02	16	2021/10/19 10:46	SOIL	1	A
LR-WJ-03	17	2021/10/19 10:49	SOIL	1	A
LR-WJ-04	18	2021/10/19 10:52	SOIL	1	A



eCOC: W42933



Project Information: C181113
Job Received: 2021/10/23 11:16
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LR-WJ-05	19	2021/10/19 10:53	SOIL	1	A
LR-WJ-06	20	2021/10/19 10:57	SOIL	1	A
LR-WJ-07	21	2021/10/19 11:01	SOIL	1	A
LR-WJ-08	22	2021/10/19 11:05	SOIL	1	A
LR-WJ-09	23	2021/10/19 11:08	SOIL	1	A
LR-WJ-10	24	2021/10/19 11:11	SOIL	1	A
LR-WJ-11	25	2021/10/19 11:15	SOIL	1	A
LR-WJ-12	26	2021/10/19 11:17	SOIL	1	A
LR-WJ-13	27	2021/10/19 11:21	SOIL	1	A
LR-WJ-13D	28	2021/10/19 11:21	SOIL	1	A
LR-BA-01	29	2021/10/19 11:40	SOIL	1	A
LR-BA-02	30	2021/10/19 11:47	SOIL	1	A
LR-BA-02D	31	2021/10/19 11:47	SOIL	1	A
LR-BA-03	32	2021/10/19 11:57	SOIL	1	A
LR-BA-04	33	2021/10/19 12:05	SOIL	1	A
LR-BA-05	34	2021/10/19 12:09	SOIL	1	A
LR-BA-06	35	2021/10/19 12:11	SOIL	1	A
LR-BA-07	36	2021/10/19 12:01	SOIL	1	A
LR-BA-08	37	2021/10/19 11:52	SOIL	1	A
LR-BA-09	38	2021/10/19 11:43	SOIL	1	A
LR-LC-01	39	2021/10/19 12:59	SOIL	1	A
LR-LC-02	40	2021/10/19 13:09	SOIL	1	A
LR-LC-02D	41	2021/10/19 13:09	SOIL	1	A



eCOC: W42933



Project Information: C181113
Job Received: 2021/10/23 11:16
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LR-LC-03	42	2021/10/19 13:11	SOIL	1	A
LR-LC-04	43	2021/10/19 13:15	SOIL	1	A
LR-LC-05	44	2021/10/19 13:17	SOIL	1	A
LR-LC-06	45	2021/10/19 13:21	SOIL	1	A
LR-LC-07	46	2021/10/19 13:26	SOIL	1	A
LR-LC-08	47	2021/10/19 13:29	SOIL	1	A
LR-LC-09	48	2021/10/19 13:32	SOIL	1	A
LR-LC-10	49	2021/10/19 13:41	SOIL	1	A
LR-LC-11	50	2021/10/19 13:37	SOIL	1	A
LR-LC-12	51	2021/10/19 13:02	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 51

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/22

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C181837

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43019

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095907
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181837

Received: 2021/10/25, 13:56

Sample Matrix: Soil
Samples Received: 33

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	32	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/11/02	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 43019

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095907
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181837

Received: 2021/10/25, 13:56

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

06 Nov 2021 16:01:08

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C181837

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJB234	AJB235	AJB236	AJB237	AJB238	AJB239	AJB240		
Sampling Date		2021/10/22 12:03	2021/10/22 11:58	2021/10/22 12:21	2021/10/22 12:31	2021/10/22 12:31	2021/10/22 12:40	2021/10/22 12:43		
COC Number		43019	43019	43019	43019	43019	43019	43019		
	UNITS	DF-MD-01	DF-MD-02	DF-MD-03	DF-KP-01	DF-KP-01D	DF-KP-02	DF-KP-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	200	43	43	89	110	190	36	0.50	A411278
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJB241		AJB242	AJB243	AJB244	AJB245	AJB246		
Sampling Date		2021/10/22 12:20		2021/10/22 12:23	2021/10/22 12:27	2021/10/22 12:31	2021/10/22 12:35	2021/10/22 12:39		
COC Number		43019		43019	43019	43019	43019	43019		
	UNITS	DF-PG-01	QC Batch	DF-PG-02	DF-PG-03	DF-PG-04	DF-PG-05	DF-PG-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	15	A411278	18	26	19	18	17	0.50	A410858
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJB247	AJB248		AJB249	AJB250		AJB251		
Sampling Date		2021/10/22 12:43	2021/10/22 12:48		2021/10/22 12:51	2021/10/22 12:54		2021/10/22 12:59		
COC Number		43019	43019		43019	43019		43019		
	UNITS	DF-PG-07	DF-PG-08	QC Batch	DF-PG-09	DF-PG-10	QC Batch	DF-PG-11	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	17	34	A410858	18	18	A411278	15	0.50	A410858
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJB252		AJB253		AJB254	AJB255		AJB256		
Sampling Date		2021/10/22 13:05		2021/10/22 13:10		2021/10/22 13:39	2021/10/22 13:52		2021/10/22 13:47		
COC Number		43019		43019		43019	43019		43019		
	UNITS	DF-PG-12	QC Batch	DF-PG-13	QC Batch	TS-PT-01	TS-PT-02	QC Batch	TS-PT-03	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	14	A410858	17	A411278	99	38	A410858	68	0.50	A411278
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJB257	AJB258	AJB259	AJB260	AJB261		AJB262		
Sampling Date		2021/10/22 14:20	2021/10/22 14:17	2021/10/22 14:13	2021/10/22 14:35	2021/10/22 14:38		2021/10/22 14:41		
COC Number		43019	43019	43019	43019	43019		43019		
	UNITS	SB-HB-01	SB-HB-02	SB-HB-03	SB-MS-01	SB-MS-02	QC Batch	SB-MS-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	82	42	57	39	68	A411278	40	0.50	A410858
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C181837

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJB263		AJB264	AJB265	AJB266		
Sampling Date		2021/10/22 14:45		2021/10/22 14:51	2021/10/22 14:57	2021/10/22 15:00		
COC Number		43019		43019	43019	43019		
	UNITS	SB-MS-04	QC Batch	SB-MS-05	SB-MS-06	SB-MS-07	RDL	QC Batch
Elements								
Total Lead (Pb)	mg/kg	4.3	A410858	44	180	15	0.50	A411278
RDL = Reportable Detection Limit								



BUREAU
VERITAS

Bureau Veritas Job #: C181837

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.4°C
-----------	--------

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A410858	MFP	Matrix Spike [AJB248-01]	Total Lead (Pb)	2021/11/03		116	%	75 - 125
A410858	MFP	QC Standard	Total Lead (Pb)	2021/11/03		114	%	79 - 121
A410858	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		103	%	80 - 120
A410858	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A410858	MFP	RPD [AJB248-01]	Total Lead (Pb)	2021/11/03	2.5		%	35
A411278	MFP	Matrix Spike [AJB250-01]	Total Lead (Pb)	2021/11/03		93	%	75 - 125
A411278	MFP	QC Standard	Total Lead (Pb)	2021/11/03		112	%	79 - 121
A411278	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		97	%	80 - 120
A411278	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411278	MFP	RPD [AJB250-01]	Total Lead (Pb)	2021/11/03	2.2		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C181837

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1424
Custody Tracking Form



W43019

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: DF-MD-01
Last Sample: SB-MS-07
Sample Count: 33

Relinquished By				Received By			
Adam Wiebe	<i>Adam Wiebe</i>	Date	2021/10/25	Amarjia Bruce	<i>Amarjia Bruce</i>	Date	2021/10/25
		Time (24 HR)	12:30			Time (24 HR)	1356
		Date		Reem Phillipos	<i>Reem</i>	Date	2021/10/26
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

C181837

Verified By

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.1	19.3	19.7
Y	Y	N	15	16	16
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43019



Project Information: C181837
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
DF-MD-01	1	2021/10/22 12:03	SOIL	1	A
DF-MD-02	2	2021/10/22 11:58	SOIL	1	A
DF-MD-03	3	2021/10/22 12:21	SOIL	1	A
DF-KP-01	4	2021/10/22 12:31	SOIL	1	A
DF-KP-01D	5	2021/10/22 12:31	SOIL	1	A
DF-KP-02	6	2021/10/22 12:40	SOIL	1	A
DF-KP-03	7	2021/10/22 12:43	SOIL	1	A
DF-PG-01	8	2021/10/22 12:20	SOIL	1	A
DF-PG-02	9	2021/10/22 12:23	SOIL	1	A
DF-PG-03	10	2021/10/22 12:27	SOIL	1	A
DF-PG-04	11	2021/10/22 12:31	SOIL	1	A
DF-PG-05	12	2021/10/22 12:35	SOIL	1	A
DF-PG-06	13	2021/10/22 12:39	SOIL	1	A
DF-PG-07	14	2021/10/22 12:43	SOIL	1	A
DF-PG-08	15	2021/10/22 12:48	SOIL	1	A
DF-PG-09	16	2021/10/22 12:51	SOIL	1	A
DF-PG-10	17	2021/10/22 12:54	SOIL	1	A
DF-PG-11	18	2021/10/22 12:59	SOIL	1	A



eCOC: W43019



Project Information: C181837
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
DF-PG-12	19	2021/10/22 13:05	SOIL	1	A
DF-PG-13	20	2021/10/22 13:10	SOIL	1	A
TS-PT-01	21	2021/10/22 13:39	SOIL	1	A
TS-PT-02	22	2021/10/22 13:52	SOIL	1	A
TS-PT-03	23	2021/10/22 13:47	SOIL	1	A
SB-HB-01	24	2021/10/22 14:20	SOIL	1	A
SB-HB-02	25	2021/10/22 14:17	SOIL	1	A
SB-HB-03	26	2021/10/22 14:13	SOIL	1	A
SB-MS-01	27	2021/10/22 14:35	SOIL	1	A
SB-MS-02	28	2021/10/22 14:38	SOIL	1	A
SB-MS-03	29	2021/10/22 14:41	SOIL	1	A
SB-MS-04	30	2021/10/22 14:45	SOIL	1	A
SB-MS-05	31	2021/10/22 14:51	SOIL	1	A
SB-MS-06	32	2021/10/22 14:57	SOIL	1	A
SB-MS-07	33	2021/10/22 15:00	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 33

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/21

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C181883

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43012

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095908
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181883

Received: 2021/10/25, 13:56

Sample Matrix: Soil
Samples Received: 28

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	28	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 43012

Attention: CHRISTA DEBLAERE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095908
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181883

Received: 2021/10/25, 13:56

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

06 Nov 2021 16:01:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C181883

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJB514		AJB515	AJB516		AJB517		AJB518		
Sampling Date		2021/10/21 11:13		2021/10/21 11:16	2021/10/21 11:21		2021/10/21 11:34		2021/10/21 11:29		
COC Number		43012		43012	43012		43012		43012		
	UNITS	RV-CG-01	QC Batch	RV-CG-02	RV-CG-03	QC Batch	RV-CG-04	QC Batch	RV-CG-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	460	A410876	20	28	A410897	21	A410876	20	0.50	A410897
-----------------	-------	-----	---------	----	----	---------	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJB519	AJB520		AJB521	AJB522	AJB523	AJB524		
Sampling Date		2021/10/21 11:39	2021/10/21 11:43		2021/10/21 12:05	2021/10/21 11:50	2021/10/21 11:59	2021/10/21 11:59		
COC Number		43012	43012		43012	43012	43012	43012		
	UNITS	RV-CG-06	RV-CG-07	QC Batch	RV-CG-08	RV-CG-09	RV-CG-10	RV-CG-10D	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	29	20	A410876	19	21	21	21	0.50	A410897
-----------------	-------	----	----	---------	----	----	----	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJB525	AJB526	AJB527	AJB528	AJB529		AJB530		
Sampling Date		2021/10/21 12:15	2021/10/21 14:25	2021/10/21 14:20	2021/10/21 14:15	2021/10/21 14:00		2021/10/21 13:49		
COC Number		43012	43012	43012	43012	43012		43012		
	UNITS	RV-CG-11	RV-CP-01	RV-CP-02	RV-CP-03	RV-CP-04	QC Batch	RV-CP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	9.0	9.9	23	29	15	A410897	46	0.50	A410876
-----------------	-------	-----	-----	----	----	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJB531	AJB532		AJB533		AJB534	AJB535		
Sampling Date		2021/10/21 13:49	2021/10/21 13:40		2021/10/21 13:38		2021/10/21 13:07	2021/10/21 13:30		
COC Number		43012	43012		43012		43012	43012		
	UNITS	RV-CP-05D	RV-CP-06	QC Batch	RV-CP-07	QC Batch	RV-CP-08	RV-CP-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	32	19	A410897	43	A410876	43	170	0.50	A410897
-----------------	-------	----	----	---------	----	---------	----	-----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJB536		AJB537	AJB538	AJB539		AJB540		
Sampling Date		2021/10/21 13:25		2021/10/21 13:20	2021/10/21 13:15	2021/10/21 13:05		2021/10/21 13:00		
COC Number		43012		43012	43012	43012		43012		
	UNITS	RV-CP-10	QC Batch	RV-CP-11	RV-CP-12	RV-CP-13	QC Batch	RV-CP-14	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	190	A410876	25	27	32	A410897	170	0.50	A410876
-----------------	-------	-----	---------	----	----	----	---------	-----	------	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C181883

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJB541		
Sampling Date		2021/10/21 12:50		
COC Number		43012		
	UNITS	RV-CP-15	RDL	QC Batch
Elements				
Total Lead (Pb)	mg/kg	38	0.50	A410897
RDL = Reportable Detection Limit				



BUREAU
VERITAS

Bureau Veritas Job #: C181883

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.0°C
-----------	--------

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C181883

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A410876	KH2	Matrix Spike [AJB519-01]	Total Lead (Pb)	2021/11/03		118	%	75 - 125
A410876	KH2	QC Standard	Total Lead (Pb)	2021/11/03		113	%	79 - 121
A410876	KH2	Spiked Blank	Total Lead (Pb)	2021/11/03		100	%	80 - 120
A410876	KH2	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A410876	KH2	RPD [AJB519-01]	Total Lead (Pb)	2021/11/03	5.5		%	35
A410897	KH2	Matrix Spike [AJB534-01]	Total Lead (Pb)	2021/11/03		124	%	75 - 125
A410897	KH2	QC Standard	Total Lead (Pb)	2021/11/03		111	%	79 - 121
A410897	KH2	Spiked Blank	Total Lead (Pb)	2021/11/03		99	%	80 - 120
A410897	KH2	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A410897	KH2	RPD [AJB534-01]	Total Lead (Pb)	2021/11/03	6.7		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C181883

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Ghayasuddin Khan", written over a horizontal line.

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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1422
Custody Tracking Form



W43012

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: RV-CG-01
Last Sample: RV-CP-15
Sample Count: 28

Relinquished By				Received By			
Adam Wiebe	Adam Wiebe	Date	2021/10/25	Amanjot Bawa	Amanjot Bawa	Date	2021/10/25
		Time (24 HR)	12:30			Time (24 HR)	13:56
		Date		Reem Phillipos	Reem Phillipos	Date	2021/10/26
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C181883

2021/10/26
RPS
MEAL

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.1	19.1	18.7
Y	Y	N	18	17	17
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43012



Project Information: C181883
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

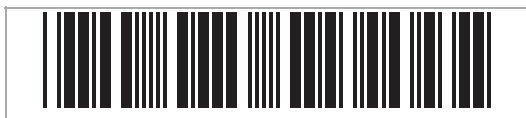
Analytical Summary

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RV-CG-01	1	2021/10/21 11:13	SOIL	1	A
RV-CG-02	2	2021/10/21 11:16	SOIL	1	A
RV-CG-03	3	2021/10/21 11:21	SOIL	1	A
RV-CG-04	4	2021/10/21 11:34	SOIL	1	A
RV-CG-05	5	2021/10/21 11:29	SOIL	1	A
RV-CG-06	6	2021/10/21 11:39	SOIL	1	A
RV-CG-07	7	2021/10/21 11:43	SOIL	1	A
RV-CG-08	8	2021/10/21 12:05	SOIL	1	A
RV-CG-09	9	2021/10/21 11:50	SOIL	1	A
RV-CG-10	10	2021/10/21 11:59	SOIL	1	A
RV-CG-10D	11	2021/10/21 11:59	SOIL	1	A
RV-CG-11	12	2021/10/21 12:15	SOIL	1	A
RV-CP-01	13	2021/10/21 14:25	SOIL	1	A
RV-CP-02	14	2021/10/21 14:20	SOIL	1	A
RV-CP-03	15	2021/10/21 14:15	SOIL	1	A
RV-CP-04	16	2021/10/21 14:00	SOIL	1	A
RV-CP-05	17	2021/10/21 13:49	SOIL	1	A
RV-CP-05D	18	2021/10/21 13:49	SOIL	1	A



eCOC: W43012



Project Information: C181883
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RV-CP-06	19	2021/10/21 13:40	SOIL	1	A
RV-CP-07	20	2021/10/21 13:38	SOIL	1	A
RV-CP-08	21	2021/10/21 13:07	SOIL	1	A
RV-CP-09	22	2021/10/21 13:30	SOIL	1	A
RV-CP-10	23	2021/10/21 13:25	SOIL	1	A
RV-CP-11	24	2021/10/21 13:20	SOIL	1	A
RV-CP-12	25	2021/10/21 13:15	SOIL	1	A
RV-CP-13	26	2021/10/21 13:05	SOIL	1	A
RV-CP-14	27	2021/10/21 13:00	SOIL	1	A
RV-CP-15	28	2021/10/21 12:50	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 28

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/19 to 2021/10/20

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C181974

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2021/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42935

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095909
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181974

Received: 2021/10/22, 16:20

Sample Matrix: Soil
Samples Received: 44

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	24	2021/11/01	2021/11/02	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	8	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	12	2021/11/03	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42935

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095909
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181974

Received: 2021/10/22, 16:20

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

06 Nov 2021 16:01:43

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C181974

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJC176	AJC177		AJC178	AJC179	AJC180		
Sampling Date		2021/10/19 14:19	2021/10/19 14:02		2021/10/19 14:27	2021/10/19 14:31	2021/10/19 14:34		
COC Number		42935	42935		42935	42935	42935		
	UNITS	LR-MP-01	LR-MP-02	QC Batch	LR-MP-03	LR-MP-04	LR-MP-05	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	21	62	A408991	26	48	42	1.0	A411301
RDL = Reportable Detection Limit									

Bureau Veritas ID		AJC181	AJC182		AJC183		AJC184	AJC185		
Sampling Date		2021/10/19 14:38	2021/10/19 14:40		2021/10/19 14:43		2021/10/19 14:48	2021/10/19 14:52		
COC Number		42935	42935		42935		42935	42935		
	UNITS	LR-MP-06	LR-MP-07	QC Batch	LR-MP-08	QC Batch	LR-MP-09	LR-MP-10	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	17	16	A408991	14	A411301	43	25	1.0	A408991
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJC186			AJC187		AJC188	AJC189		AJC190		
Sampling Date		2021/10/19 14:55			2021/10/19 14:11		2021/10/19 14:15	2021/10/19 14:23		2021/10/19 14:08		
COC Number		42935			42935		42935	42935		42935		
	UNITS	LR-MP-11	RDL	QC Batch	LR-MP-12	RDL	LR-MP-13	LR-MP-14	QC Batch	LR-MP-15	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	38	1.0	A408991	22	0.50	24	20	A411301	23	1.0	A409092
RDL = Reportable Detection Limit												

Bureau Veritas ID		AJC191	AJC192		AJC193			AJC194		
Sampling Date		2021/10/19 15:21	2021/10/19 15:24		2021/10/19 15:17			2021/10/19 15:17		
COC Number		42935	42935		42935			42935		
	UNITS	LR-AR-01	LR-AR-02	QC Batch	LR-AR-03	RDL	QC Batch	LR-AR-03D	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	65	27	A409092	240	1.0	A411301	190	0.50	A411805
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJC195	AJC196			AJC197			AJC198		
Sampling Date		2021/10/19 15:27	2021/10/19 15:13			2021/10/20 10:51			2021/10/20 10:55		
COC Number		42935	42935			42935			42935		
	UNITS	LR-AR-04	LR-AR-05	RDL	QC Batch	LR-LS-01	RDL	QC Batch	LR-LS-02	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	6.3	53	1.0	A411824	12	0.50	A409092	18	1.0	A411805
RDL = Reportable Detection Limit											

BUREAU
VERITAS

Bureau Veritas Job #: C181974

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJC199			AJC200			AJC201		AJC202		
Sampling Date		2021/10/20 10:57			2021/10/20 11:00			2021/10/20 11:05		2021/10/20 11:09		
COC Number		42935			42935			42935		42935		
	UNITS	LR-LS-03	RDL	QC Batch	LR-LS-04	RDL	QC Batch	LR-LS-05	RDL	LR-LS-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	29	0.50	A411805	23	1.0	A411824	7.3	0.50	15	1.0	A411805
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC203		AJC204		AJC205			AJC206		AJC207		
Sampling Date		2021/10/20 11:11		2021/10/20 11:14		2021/10/20 11:17			2021/10/20 11:20		2021/10/20 11:20		
COC Number		42935		42935		42935			42935		42935		
	UNITS	LR-LS-07	RDL	LR-LS-08	RDL	LR-LS-09	RDL	QC Batch	LR-LS-10	RDL	LR-LS-10D	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	21	1.0	32	0.50	12	1.0	A411805	42	0.50	41	1.0	A408991
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC208	AJC209	AJC210	AJC211	AJC212		AJC213		
Sampling Date		2021/10/20 11:24	2021/10/20 10:37	2021/10/20 10:35	2021/10/20 10:30	2021/10/20 10:28		2021/10/20 10:24		
COC Number		42935	42935	42935	42935	42935		42935		
	UNITS	LR-LS-11	LR-FR-01	LR-FR-02	LR-FR-03	LR-FR-04	QC Batch	LR-FR-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	9.1	21	33	7.5	11	A408991	25	1.0	A409092
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC214		AJC215	AJC216	AJC217	AJC218		
Sampling Date		2021/10/20 09:49		2021/10/20 10:00	2021/10/20 10:05	2021/10/20 10:15	2021/10/20 10:17		
COC Number		42935		42935	42935	42935	42935		
	UNITS	LR-FR-06	QC Batch	LR-FR-07	LR-FR-08	LR-FR-09	LR-FR-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	10	A412811	9.2	28	58	54	1.0	A409092
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC219		
Sampling Date		2021/10/20 10:21		
COC Number		42935		
	UNITS	LR-FR-11	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	9.3	1.0	A409092
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RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.0°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJC176 [LR-MP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC177 [LR-MP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC178 [LR-MP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC179 [LR-MP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC180 [LR-MP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC181 [LR-MP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC182 [LR-MP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC183 [LR-MP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC184 [LR-MP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC185 [LR-MP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC186 [LR-MP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC188 [LR-MP-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC189 [LR-MP-14] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC190 [LR-MP-15] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC191 [LR-AR-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC192 [LR-AR-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC193 [LR-AR-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC195 [LR-AR-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC196 [LR-AR-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC198 [LR-LS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC200 [LR-LS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC202 [LR-LS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC203 [LR-LS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC205 [LR-LS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC207 [LR-LS-10D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC208 [LR-LS-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC209 [LR-FR-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC210 [LR-FR-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC211 [LR-FR-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC212 [LR-FR-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC213 [LR-FR-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC214 [LR-FR-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC215 [LR-FR-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC216 [LR-FR-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC217 [LR-FR-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC218 [LR-FR-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJC219 [LR-FR-11] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C181974

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A408991	LQ1	Matrix Spike [AJC211-01]	Total Lead (Pb)	2021/11/02		93	%	75 - 125
A408991	LQ1	QC Standard	Total Lead (Pb)	2021/11/02		113	%	79 - 121
A408991	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/02		104	%	80 - 120
A408991	LQ1	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A408991	LQ1	RPD [AJC211-01]	Total Lead (Pb)	2021/11/02	8.6		%	35
A409092	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/02		99	%	75 - 125
A409092	LQ1	QC Standard	Total Lead (Pb)	2021/11/02		113	%	79 - 121
A409092	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/02		103	%	80 - 120
A409092	LQ1	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A409092	LQ1	RPD	Total Lead (Pb)	2021/11/02	30		%	35
A411301	MFP	Matrix Spike	Total Lead (Pb)	2021/11/03		NC	%	75 - 125
A411301	MFP	QC Standard	Total Lead (Pb)	2021/11/03		112	%	79 - 121
A411301	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		105	%	80 - 120
A411301	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411301	MFP	RPD	Total Lead (Pb)	2021/11/03	0.59		%	35
A411805	MFP	Matrix Spike	Total Lead (Pb)	2021/11/04		110	%	75 - 125
A411805	MFP	QC Standard	Total Lead (Pb)	2021/11/05		102	%	79 - 121
A411805	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		106	%	80 - 120
A411805	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A411805	MFP	RPD	Total Lead (Pb)	2021/11/04	24		%	35
A411824	MFP	Matrix Spike	Total Lead (Pb)	2021/11/04		91	%	75 - 125
A411824	MFP	QC Standard	Total Lead (Pb)	2021/11/04		112	%	79 - 121
A411824	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A411824	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A411824	MFP	RPD	Total Lead (Pb)	2021/11/04	12		%	35
A412811	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/04		118	%	75 - 125
A412811	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		118	%	79 - 121
A412811	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A412811	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412811	LQ1	RPD	Total Lead (Pb)	2021/11/04	23		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C181974

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'Ghayasuddin Khan', written over a horizontal line.

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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Custody Tracking Form



W42935

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: LR-MP-01
Last Sample: LR-FR-11
Sample Count: 44

Relinquished By				Received By			
Jesse Buree		Date	2021/10/22	Brooklyn Hiebert	BA	Date	2021/10/22
		Time (24 HR)	11:45			Time (24 HR)	1620
		Date		Adam Fishleigh	AF	Date	2021/10/23
		Time (24 HR)				Time (24 HR)	0955
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐Immediate Test ☐Food Residue ☐Micro ☐Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

ML

Lab Comments:

Labeled By

SK

Verified By

MA

C181974

AC TA

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	18.7	19.1	19.1
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W42935



Project Information: C181974
Job Received: 2021/10/22 16:20
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LR-MP-01	1	2021/10/19 14:19	SOIL	1	A
LR-MP-02	2	2021/10/19 14:02	SOIL	1	A
LR-MP-03	3	2021/10/19 14:27	SOIL	1	A
LR-MP-04	4	2021/10/19 14:31	SOIL	1	A
LR-MP-05	5	2021/10/19 14:34	SOIL	1	A
LR-MP-06	6	2021/10/19 14:38	SOIL	1	A
LR-MP-07	7	2021/10/19 14:40	SOIL	1	A
LR-MP-08	8	2021/10/19 14:43	SOIL	1	A
LR-MP-09	9	2021/10/19 14:48	SOIL	1	A
LR-MP-10	10	2021/10/19 14:52	SOIL	1	A
LR-MP-11	11	2021/10/19 14:55	SOIL	1	A
LR-MP-12	12	2021/10/19 14:11	SOIL	1	A
LR-MP-13	13	2021/10/19 14:15	SOIL	1	A
LR-MP-14	14	2021/10/19 14:23	SOIL	1	A
LR-MP-15	15	2021/10/19 14:08	SOIL	1	A
LR-AR-01	16	2021/10/19 15:21	SOIL	1	A
LR-AR-02	17	2021/10/19 15:24	SOIL	1	A
LR-AR-03	18	2021/10/19 15:17	SOIL	1	A



eCOC: W42935



Project Information: C181974
Job Received: 2021/10/22 16:20
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LR-AR-03D	19	2021/10/19 15:17	SOIL	1	A
LR-AR-04	20	2021/10/19 15:27	SOIL	1	A
LR-AR-05	21	2021/10/19 15:13	SOIL	1	A
LR-LS-01	22	2021/10/20 10:51	SOIL	1	A
LR-LS-02	23	2021/10/20 10:55	SOIL	1	A
LR-LS-03	24	2021/10/20 10:57	SOIL	1	A
LR-LS-04	25	2021/10/20 11:00	SOIL	1	A
LR-LS-05	26	2021/10/20 11:05	SOIL	1	A
LR-LS-06	27	2021/10/20 11:09	SOIL	1	A
LR-LS-07	28	2021/10/20 11:11	SOIL	1	A
LR-LS-08	29	2021/10/20 11:14	SOIL	1	A
LR-LS-09	30	2021/10/20 11:17	SOIL	1	A
LR-LS-10	31	2021/10/20 11:20	SOIL	1	A
LR-LS-10D	32	2021/10/20 11:20	SOIL	1	A
LR-LS-11	33	2021/10/20 11:24	SOIL	1	A
LR-FR-01	34	2021/10/20 10:37	SOIL	1	A
LR-FR-02	35	2021/10/20 10:35	SOIL	1	A
LR-FR-03	36	2021/10/20 10:30	SOIL	1	A
LR-FR-04	37	2021/10/20 10:28	SOIL	1	A
LR-FR-05	38	2021/10/20 10:24	SOIL	1	A
LR-FR-06	39	2021/10/20 09:49	SOIL	1	A
LR-FR-07	40	2021/10/20 10:00	SOIL	1	A
LR-FR-08	41	2021/10/20 10:05	SOIL	1	A



eCOC: W42935



Project Information: C181974
Job Received: 2021/10/22 16:20
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LR-FR-09	42	2021/10/20 10:15	SOIL	1	A
LR-FR-10	43	2021/10/20 10:17	SOIL	1	A
LR-FR-11	44	2021/10/20 10:21	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 44

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/20 to 2021/10/21

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C181975

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 42936

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095910
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181975

Received: 2021/10/22, 16:00

Sample Matrix: Soil
Samples Received: 53

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	3	2021/10/29	2021/10/30	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	5	2021/11/01	2021/11/02	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	30	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	15	2021/11/03	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 42936

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095910
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C181975

Received: 2021/10/22, 16:00

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

06 Nov 2021 16:02:04

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C181975

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJC220		AJC221		AJC222			AJC223	AJC224		
Sampling Date		2021/10/20 11:47		2021/10/20 11:51		2021/10/20 11:55			2021/10/20 12:00	2021/10/20 12:03		
COC Number		42936		42936		42936			42936	42936		
	UNITS	RV-FP-01	QC Batch	RV-FP-02	RDL	RV-FP-03	RDL	QC Batch	RV-FP-04	RV-FP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	32	A408991	45	1.0	42	0.50	A412811	40	32	1.0	A411273
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC225	AJC226		AJC227	AJC228		AJC229		
Sampling Date		2021/10/20 12:03	2021/10/20 12:15		2021/10/20 11:42	2021/10/20 12:58		2021/10/20 12:58		
COC Number		42936	42936		42936	42936		42936		
	UNITS	RV-FP-06	RV-FP-07	QC Batch	RV-FP-08	RV-DT-01	QC Batch	RV-DT-01D	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	46	48	A411273	43	20	A411824	20	1.0	A411273
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC230			AJC231			AJC232		AJC233		
Sampling Date		2021/10/20 13:10			2021/10/20 13:20			2021/10/20 14:29		2021/10/20 14:19		
COC Number		42936			42936			42936		42936		
	UNITS	RV-DT-02	RDL	QC Batch	RV-DT-03	RDL	QC Batch	RV-RC-01	RDL	RV-RC-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	120	1.0	A411273	11	0.50	A411824	18	1.0	13	0.50	A411301
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC234	AJC235		AJC236		AJC237	AJC238		
Sampling Date		2021/10/20 14:16	2021/10/20 14:12		2021/10/20 14:38		2021/10/20 13:43	2021/10/20 13:49		
COC Number		42936	42936		42936		42936	42936		
	UNITS	RV-RC-03	RV-RC-04	QC Batch	RV-RC-05	QC Batch	RV-RC-06	RV-RC-07	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	46	32	A411273	15	A411301	17	13	1.0	A411273
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC239			AJC240	AJC241			AJC242		
Sampling Date		2021/10/20 13:52			2021/10/20 13:55	2021/10/20 13:57			2021/10/20 14:02		
COC Number		42936			42936	42936			42936		
	UNITS	RV-RC-08	RDL	QC Batch	RV-RC-09	RV-RC-10	RDL	QC Batch	RV-RC-11	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	14	1.0	A411273	8.0	8.0	0.50	A411805	6.8	1.0	A409092
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C181975

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJC243			AJC244		AJC245		AJC246		
Sampling Date		2021/10/20 14:06			2021/10/20 15:01		2021/10/20 14:09		2021/10/20 14:42		
COC Number		42936			42936		42936		42936		
	UNITS	RV-RC-12	RDL	QC Batch	RV-RC-13	QC Batch	RV-RC-14	QC Batch	RV-RC-15	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	11	1.0	A411824	12	A411301	17	A411805	13	0.50	A410876
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJC247	AJC248	AJC249			AJC250			AJC251		
Sampling Date		2021/10/20 14:42	2021/10/20 14:33	2021/10/20 14:22			2021/10/20 14:26			2021/10/20 14:31		
COC Number		42936	42936	42936			42936			42936		
	UNITS	RV-RC-15D	RV-RC-16	RV-RC-17	RDL	QC Batch	RV-RC-18	RDL	QC Batch	RV-RC-19	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	15	9.3	17	1.0	A411273	28	0.50	A411805	13	1.0	A411273
RDL = Reportable Detection Limit												

Bureau Veritas ID		AJC252		AJC253		AJC254			AJC255		
Sampling Date		2021/10/20 15:05		2021/10/20 15:11		2021/10/20 15:14			2021/10/20 15:19		
COC Number		42936		42936		42936			42936		
	UNITS	RV-RS-01	QC Batch	RV-RS-02	QC Batch	RV-RS-03	RDL	QC Batch	RV-RS-04	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	160	A408991	13	A409092	17	1.0	A411273	29	0.50	A411824
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJC256	AJC257		AJC258			AJC259		
Sampling Date		2021/10/20 15:19	2021/10/20 15:23		2021/10/20 15:29			2021/10/20 15:31		
COC Number		42936	42936		42936			42936		
	UNITS	RV-RS-04D	RV-RS-05	QC Batch	RV-RS-06	RDL	QC Batch	RV-RS-07	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	41	40	A411824	69	0.50	A410876	22	1.0	A411273
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJC260		AJC261		AJC262			AJC263		
Sampling Date		2021/10/20 15:34		2021/10/20 15:34		2021/10/20 15:41			2021/10/21 09:45		
COC Number		42936		42936		42936			42936		
	UNITS	RV-RS-08	QC Batch	RV-RS-09	QC Batch	RV-RS-10	RDL	QC Batch	RV-AA-01	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	21	A410876	54	A411824	50	0.50	A410876	54	1.0	A411273
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C181975
Report Date: 2021/11/06

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJC264			AJC265		AJC266			AJC267		
Sampling Date		2021/10/21 09:50			2021/10/21 10:00		2021/10/21 10:07			2021/10/21 10:12		
COC Number		42936			42936		42936			42936		
	UNITS	RV-AA-02	RDL	QC Batch	RV-AA-03	QC Batch	RV-AA-04	RDL	QC Batch	RV-AA-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	230	0.50	A411805	43	A411301	10	1.0	A407672	8.2	0.50	A411301
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC268		AJC269			AJC270		AJC271		
Sampling Date		2021/10/21 10:18		2021/10/21 10:23			2021/10/21 10:29		2021/10/21 10:36		
COC Number		42936		42936			42936		42936		
	UNITS	RV-AA-06	QC Batch	RV-AA-07	RDL	QC Batch	RV-AA-08	RDL	RV-AA-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	41	A411301	80	1.0	A409092	32	0.50	37	1.0	A407672
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJC272		
Sampling Date		2021/10/21 10:41		
COC Number		42936		
	UNITS	RV-AA-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	36	1.0	A411273
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RDL = Reportable Detection Limit

**GENERAL COMMENTS**

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.4°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJC220 [RV-FP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC221 [RV-FP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC223 [RV-FP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC224 [RV-FP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC225 [RV-FP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC226 [RV-FP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC227 [RV-FP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC228 [RV-DT-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC229 [RV-DT-01D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC230 [RV-DT-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC232 [RV-RC-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC234 [RV-RC-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC235 [RV-RC-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC236 [RV-RC-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC237 [RV-RC-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC238 [RV-RC-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC239 [RV-RC-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC242 [RV-RC-11] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC243 [RV-RC-12] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC247 [RV-RC-15D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC248 [RV-RC-16] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC249 [RV-RC-17] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC251 [RV-RC-19] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC252 [RV-RS-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC253 [RV-RS-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC254 [RV-RS-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC259 [RV-RS-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC263 [RV-AA-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC265 [RV-AA-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC266 [RV-AA-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC268 [RV-AA-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC269 [RV-AA-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC271 [RV-AA-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJC272 [RV-AA-10] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C181975

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A407672	KH2	Matrix Spike	Total Lead (Pb)	2021/10/30		112	%	75 - 125
A407672	KH2	QC Standard	Total Lead (Pb)	2021/10/30		118	%	79 - 121
A407672	KH2	Spiked Blank	Total Lead (Pb)	2021/10/30		110	%	80 - 120
A407672	KH2	Method Blank	Total Lead (Pb)	2021/10/30	<0.50		mg/kg	
A407672	KH2	RPD	Total Lead (Pb)	2021/10/30	0.41		%	35
A408991	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/02		93	%	75 - 125
A408991	LQ1	QC Standard	Total Lead (Pb)	2021/11/02		113	%	79 - 121
A408991	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/02		104	%	80 - 120
A408991	LQ1	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A408991	LQ1	RPD	Total Lead (Pb)	2021/11/02	8.6		%	35
A409092	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/02		99	%	75 - 125
A409092	LQ1	QC Standard	Total Lead (Pb)	2021/11/02		113	%	79 - 121
A409092	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/02		103	%	80 - 120
A409092	LQ1	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A409092	LQ1	RPD	Total Lead (Pb)	2021/11/02	30		%	35
A410876	KH2	Matrix Spike	Total Lead (Pb)	2021/11/03		118	%	75 - 125
A410876	KH2	QC Standard	Total Lead (Pb)	2021/11/03		113	%	79 - 121
A410876	KH2	Spiked Blank	Total Lead (Pb)	2021/11/03		100	%	80 - 120
A410876	KH2	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A410876	KH2	RPD	Total Lead (Pb)	2021/11/03	5.5		%	35
A411273	MFP	Matrix Spike	Total Lead (Pb)	2021/11/03		NC	%	75 - 125
A411273	MFP	QC Standard	Total Lead (Pb)	2021/11/03		112	%	79 - 121
A411273	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		100	%	80 - 120
A411273	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411273	MFP	RPD	Total Lead (Pb)	2021/11/03	3.0		%	35
A411301	MFP	Matrix Spike	Total Lead (Pb)	2021/11/03		NC	%	75 - 125
A411301	MFP	QC Standard	Total Lead (Pb)	2021/11/03		112	%	79 - 121
A411301	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		105	%	80 - 120
A411301	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411301	MFP	RPD	Total Lead (Pb)	2021/11/03	0.59		%	35
A411805	MFP	Matrix Spike	Total Lead (Pb)	2021/11/04		110	%	75 - 125
A411805	MFP	QC Standard	Total Lead (Pb)	2021/11/05		102	%	79 - 121
A411805	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		106	%	80 - 120
A411805	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A411805	MFP	RPD	Total Lead (Pb)	2021/11/04	24		%	35
A411824	MFP	Matrix Spike [AJC231-01]	Total Lead (Pb)	2021/11/04		91	%	75 - 125
A411824	MFP	QC Standard	Total Lead (Pb)	2021/11/04		112	%	79 - 121
A411824	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A411824	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A411824	MFP	RPD [AJC231-01]	Total Lead (Pb)	2021/11/04	12		%	35
A412811	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/04		118	%	75 - 125
A412811	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		118	%	79 - 121
A412811	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A412811	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412811	LQ1	RPD	Total Lead (Pb)	2021/11/04	23		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C181975

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W42936

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: RV-FP-01
Last Sample: RV-AA-10
Sample Count: 53

Relinquished By				Received By			
Jessa Bursee	<i>[Signature]</i>	Date	2021/10/22	Brooklyn Hiebert	BH	Date	2021/10/22
		Time (24 HR)	11:45			Time (24 HR)	1600
		Date		Adam Fishleigh	AF	Date	2021/10/23
		Time (24 HR)				Time (24 HR)	0955
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Food Residue <input type="checkbox"/>
Adam Wiebe	1	Immediate Test <input type="checkbox"/>	Food Chemistry <input type="checkbox"/>
		Micro <input type="checkbox"/>	

*** LABORATORY USE ONLY ***

Received At *max* Lab Comments:
Labeled By *Skay*
Verified By *MA*

C181978

ACTA

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	18.5	18.3	18.5
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3



eCOC: W42936



Project Information: C181975
Job Received: 2021/10/22 16:20
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
jesse.bursee@parsons.com
calgary.labreport@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RV-FP-01	1	2021/10/20 11:47	SOIL	1	A
RV-FP-02	2	2021/10/20 11:51	SOIL	1	A
RV-FP-03	3	2021/10/20 11:55	SOIL	1	A
RV-FP-04	4	2021/10/20 12:00	SOIL	1	A
RV-FP-05	5	2021/10/20 12:03	SOIL	1	A
RV-FP-06	6	2021/10/20 12:03	SOIL	1	A
RV-FP-07	7	2021/10/20 12:15	SOIL	1	A
RV-FP-08	8	2021/10/20 11:42	SOIL	1	A
RV-DT-01	9	2021/10/20 12:58	SOIL	1	A
RV-DT-01D	10	2021/10/20 12:58	SOIL	1	A
RV-DT-02	11	2021/10/20 13:10	SOIL	1	A
RV-DT-03	12	2021/10/20 13:20	SOIL	1	A
RV-RC-01	13	2021/10/20 14:29	SOIL	1	A
RV-RC-02	14	2021/10/20 14:19	SOIL	1	A
RV-RC-03	15	2021/10/20 14:16	SOIL	1	A
RV-RC-04	16	2021/10/20 14:12	SOIL	1	A
RV-RC-05	17	2021/10/20 14:38	SOIL	1	A
RV-RC-06	18	2021/10/20 13:43	SOIL	1	A



eCOC: W42936



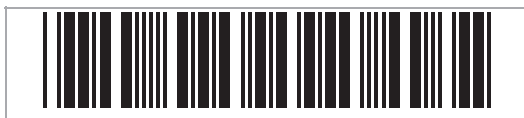
Project Information: C181975
Job Received: 2021/10/22 16:20
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RV-RC-07	19	2021/10/20 13:49	SOIL	1	A
RV-RC-08	20	2021/10/20 13:52	SOIL	1	A
RV-RC-09	21	2021/10/20 13:55	SOIL	1	A
RV-RC-10	22	2021/10/20 13:57	SOIL	1	A
RV-RC-11	23	2021/10/20 14:02	SOIL	1	A
RV-RC-12	24	2021/10/20 14:06	SOIL	1	A
RV-RC-13	25	2021/10/20 15:01	SOIL	1	A
RV-RC-14	26	2021/10/20 14:09	SOIL	1	A
RV-RC-15	27	2021/10/20 14:42	SOIL	1	A
RV-RC-15D	28	2021/10/20 14:42	SOIL	1	A
RV-RC-16	29	2021/10/20 14:33	SOIL	1	A
RV-RC-17	30	2021/10/20 14:22	SOIL	1	A
RV-RC-18	31	2021/10/20 14:26	SOIL	1	A
RV-RC-19	32	2021/10/20 14:31	SOIL	1	A
RV-RS-01	33	2021/10/20 15:05	SOIL	1	A
RV-RS-02	34	2021/10/20 15:11	SOIL	1	A
RV-RS-03	35	2021/10/20 15:14	SOIL	1	A
RV-RS-04	36	2021/10/20 15:19	SOIL	1	A
RV-RS-04D	37	2021/10/20 15:19	SOIL	1	A
RV-RS-05	38	2021/10/20 15:23	SOIL	1	A
RV-RS-06	39	2021/10/20 15:29	SOIL	1	A
RV-RS-07	40	2021/10/20 15:31	SOIL	1	A
RV-RS-08	41	2021/10/20 15:34	SOIL	1	A



eCOC: W42936



Project Information: C181975
Job Received: 2021/10/22 16:20
Results Required By: 2021/10/29 15:00
Expected Arrival: 2021/10/22 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/10/29 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RV-RS-09	42	2021/10/20 15:34	SOIL	1	A
RV-RS-10	43	2021/10/20 15:41	SOIL	1	A
RV-AA-01	44	2021/10/21 09:45	SOIL	1	A
RV-AA-02	45	2021/10/21 09:50	SOIL	1	A
RV-AA-03	46	2021/10/21 10:00	SOIL	1	A
RV-AA-04	47	2021/10/21 10:07	SOIL	1	A
RV-AA-05	48	2021/10/21 10:12	SOIL	1	A
RV-AA-06	49	2021/10/21 10:18	SOIL	1	A
RV-AA-07	50	2021/10/21 10:23	SOIL	1	A
RV-AA-08	51	2021/10/21 10:29	SOIL	1	A
RV-AA-09	52	2021/10/21 10:36	SOIL	1	A
RV-AA-10	53	2021/10/21 10:41	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 53

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/21 to 2021/10/22

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C182343

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43017

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095911
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C182343

Received: 2021/10/25, 13:56

Sample Matrix: Soil
Samples Received: 48

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	20	2021/11/02	2021/11/02	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	7	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/11/03	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/11/03	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 43017

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/06
Report #: R3095911
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C182343

Received: 2021/10/25, 13:56

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

06 Nov 2021 16:02:23

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C182343

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJE108	AJE109	AJE110		AJE111		AJE112		
Sampling Date		2021/10/21 15:06	2021/10/21 15:06	2021/10/21 15:09		2021/10/21 15:14		2021/10/21 15:32		
COC Number		43017	43017	43017		43017		43017		
	UNITS	SB-LV-01	SB-LV-01D	SB-LV-02	QC Batch	SB-LV-03	QC Batch	SB-LV-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	140	150	220	A410674	180	A412229	170	0.50	A412306
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJE113	AJE114	AJE115	AJE116	AJE117		AJE118		
Sampling Date		2021/10/21 15:38	2021/10/21 15:45	2021/10/21 15:42	2021/10/21 15:52	2021/10/21 15:49		2021/10/21 15:47		
COC Number		43017	43017	43017	43017	43017		43017		
	UNITS	SB-LV-05	SB-LV-06	SB-LV-07	SB-LV-08	SB-LV-09	QC Batch	SB-LV-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	150	54	91	32	120	A410674	150	0.50	A412306
-----------------	-------	-----	----	----	----	-----	---------	-----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJE119		AJE120	AJE121	AJE122	AJE123	AJE124		
Sampling Date		2021/10/21 15:40		2021/10/21 15:34	2021/10/21 15:29	2021/10/21 15:00	2021/10/21 15:59	2021/10/21 15:55		
COC Number		43017		43017	43017	43017	43017	43017		
	UNITS	SB-LV-11	QC Batch	SB-LV-12	SB-LV-13	SB-LV-14	SB-PP-01	SB-PP-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	92	A410674	290	280	970	80	99	0.50	A412306
-----------------	-------	----	---------	-----	-----	-----	----	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJE125	AJE126	AJE127	AJE128	AJE129	AJE130	AJE131		
Sampling Date		2021/10/21 16:00	2021/10/21 16:03	2021/10/21 16:10	2021/10/21 16:13	2021/10/21 16:17	2021/10/21 16:21	2021/10/21 16:23		
COC Number		43017	43017	43017	43017	43017	43017	43017		
	UNITS	SB-PP-03	SB-PP-04	SB-PP-05	SB-PP-06	SB-PP-07	SB-PP-08	SB-PP-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	81	79	99	120	29	82	110	0.50	A412306
-----------------	-------	----	----	----	-----	----	----	-----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJE132		AJE133		AJE134	AJE135	AJE136		
Sampling Date		2021/10/21 16:25		2021/10/21 16:27		2021/10/21 16:30	2021/10/21 16:33	2021/10/22 09:55		
COC Number		43017		43017		43017	43017	43017		
	UNITS	SB-PP-10	QC Batch	SB-PP-11	QC Batch	SB-PP-12	SB-PP-13	SB-EP-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	65	A410674	17	A412306	17	32	14	0.50	A410858
-----------------	-------	----	---------	----	---------	----	----	----	------	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C182343
Report Date: 2021/11/06

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJE137	AJE138	AJE139	AJE140		AJE141	AJE142		
Sampling Date		2021/10/22 09:52	2021/10/22 09:47	2021/10/22 09:43	2021/10/22 09:40		2021/10/22 10:19	2021/10/22 10:10		
COC Number		43017	43017	43017	43017		43017	43017		
	UNITS	SB-EP-02	SB-EP-03	SB-EP-04	SB-EP-05	QC Batch	SB-OC-01	SB-OC-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	11	45	95	62	A410858	34	48	0.50	A412306
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJE143		AJE144	AJE145		AJE146	AJE147		
Sampling Date		2021/10/22 11:05		2021/10/22 11:00	2021/10/22 10:27		2021/10/22 10:36	2021/10/22 10:39		
COC Number		43017		43017	43017		43017	43017		
	UNITS	SB-OC-03	QC Batch	SB-OC-04	SB-OC-05	QC Batch	SB-OC-06	SB-OC-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	69	A410674	100	58	A412306	190	150	0.50	A410674
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJE148		AJE149		AJE150	AJE151	AJE152		
Sampling Date		2021/10/22 10:51		2021/10/22 10:47		2021/10/22 10:55	2021/10/22 10:57	2021/10/22 10:42		
COC Number		43017		43017		43017	43017	43017		
	UNITS	SB-OC-08	QC Batch	SB-OC-09	QC Batch	SB-OC-10	SB-OC-11	SB-OC-12	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	35	A410674	150	A412306	40	50	74	0.50	A410674
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJE153	AJE154	AJE155		
Sampling Date		2021/10/22 10:31	2021/10/22 10:23	2021/10/22 10:15		
COC Number		43017	43017	43017		
	UNITS	SB-OC-13	SB-OC-14	SB-OC-15	RDL	QC Batch

Elements						
Total Lead (Pb)	mg/kg	19	44	39	0.50	A410674
RDL = Reportable Detection Limit						



BUREAU
VERITAS

Bureau Veritas Job #: C182343

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.5°C
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Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A410674	MFP	Matrix Spike [AJE132-01]	Total Lead (Pb)	2021/11/02		NC	%	75 - 125
A410674	MFP	QC Standard	Total Lead (Pb)	2021/11/02		115	%	79 - 121
A410674	MFP	Spiked Blank	Total Lead (Pb)	2021/11/02		99	%	80 - 120
A410674	MFP	Method Blank	Total Lead (Pb)	2021/11/02	<0.50		mg/kg	
A410674	MFP	RPD [AJE132-01]	Total Lead (Pb)	2021/11/02	11		%	35
A410858	MFP	Matrix Spike	Total Lead (Pb)	2021/11/03		116	%	75 - 125
A410858	MFP	QC Standard	Total Lead (Pb)	2021/11/03		114	%	79 - 121
A410858	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		103	%	80 - 120
A410858	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A410858	MFP	RPD	Total Lead (Pb)	2021/11/03	2.5		%	35
A412229	MFP	Matrix Spike [AJE111-01]	Total Lead (Pb)	2021/11/05		NC	%	75 - 125
A412229	MFP	QC Standard	Total Lead (Pb)	2021/11/05		117	%	79 - 121
A412229	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		99	%	80 - 120
A412229	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A412229	MFP	RPD [AJE111-01]	Total Lead (Pb)	2021/11/05	0.89		%	35
A412306	MFP	Matrix Spike [AJE120-01]	Total Lead (Pb)	2021/11/04		NC	%	75 - 125
A412306	MFP	QC Standard	Total Lead (Pb)	2021/11/04		99	%	79 - 121
A412306	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		108	%	80 - 120
A412306	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412306	MFP	RPD [AJE120-01]	Total Lead (Pb)	2021/11/04	9.5		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C182343

Report Date: 2021/11/06

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1423
Custody Tracking Form



W43017

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: SB-LV-01
Last Sample: SB-OC-15
Sample Count: 48

Relinquished By				Received By			
Adam Wiebe		Date	2021/10/25	Amarjit Brar		Date	2021/10/25
		Time (24 HR)	12:30			Time (24 HR)	1356
		Date		Reem Phillipos		Date	2021/10/26
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

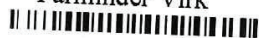
Lab Comments:

Labeled By

Verified By

25-Oct-21 13:56

Parminder Virk



C182343

NMU

INS-0226

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	18.5	18.5	18.5
Y	Y	N	20	20	20
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43017



Project Information: C182343
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
jesse.bursee@parsons.com
calgary.labreport@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SB-LV-01	1	2021/10/21 15:06	SOIL	1	A
SB-LV-01D	2	2021/10/21 15:06	SOIL	1	A
SB-LV-02	3	2021/10/21 15:09	SOIL	1	A
SB-LV-03	4	2021/10/21 15:14	SOIL	1	A
SB-LV-04	5	2021/10/21 15:32	SOIL	1	A
SB-LV-05	6	2021/10/21 15:38	SOIL	1	A
SB-LV-06	7	2021/10/21 15:45	SOIL	1	A
SB-LV-07	8	2021/10/21 15:42	SOIL	1	A
SB-LV-08	9	2021/10/21 15:52	SOIL	1	A
SB-LV-09	10	2021/10/21 15:49	SOIL	1	A
SB-LV-10	11	2021/10/21 15:47	SOIL	1	A
SB-LV-11	12	2021/10/21 15:40	SOIL	1	A
SB-LV-12	13	2021/10/21 15:34	SOIL	1	A
SB-LV-13	14	2021/10/21 15:29	SOIL	1	A
SB-LV-14	15	2021/10/21 15:00	SOIL	1	A
SB-PP-01	16	2021/10/21 15:59	SOIL	1	A
SB-PP-02	17	2021/10/21 15:55	SOIL	1	A
SB-PP-03	18	2021/10/21 16:00	SOIL	1	A



eCOC: W43017



Project Information: C182343
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SB-PP-04	19	2021/10/21 16:03	SOIL	1	A
SB-PP-05	20	2021/10/21 16:10	SOIL	1	A
SB-PP-06	21	2021/10/21 16:13	SOIL	1	A
SB-PP-07	22	2021/10/21 16:17	SOIL	1	A
SB-PP-08	23	2021/10/21 16:21	SOIL	1	A
SB-PP-09	24	2021/10/21 16:23	SOIL	1	A
SB-PP-10	25	2021/10/21 16:25	SOIL	1	A
SB-PP-11	26	2021/10/21 16:27	SOIL	1	A
SB-PP-12	27	2021/10/21 16:30	SOIL	1	A
SB-PP-13	28	2021/10/21 16:33	SOIL	1	A
SB-EP-01	29	2021/10/22 09:55	SOIL	1	A
SB-EP-02	30	2021/10/22 09:52	SOIL	1	A
SB-EP-03	31	2021/10/22 09:47	SOIL	1	A
SB-EP-04	32	2021/10/22 09:43	SOIL	1	A
SB-EP-05	33	2021/10/22 09:40	SOIL	1	A
SB-OC-01	34	2021/10/22 10:19	SOIL	1	A
SB-OC-02	35	2021/10/22 10:10	SOIL	1	A
SB-OC-03	36	2021/10/22 11:05	SOIL	1	A
SB-OC-04	37	2021/10/22 11:00	SOIL	1	A
SB-OC-05	38	2021/10/22 10:27	SOIL	1	A
SB-OC-06	39	2021/10/22 10:36	SOIL	1	A
SB-OC-07	40	2021/10/22 10:39	SOIL	1	A
SB-OC-08	41	2021/10/22 10:51	SOIL	1	A



eCOC: W43017



Project Information: C182343
Job Received: 2021/10/25 13:56
Results Required By: 2021/11/01 15:00
Expected Arrival: 2021/10/25 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/01 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SB-OC-09	42	2021/10/22 10:47	SOIL	1	A
SB-OC-10	43	2021/10/22 10:55	SOIL	1	A
SB-OC-11	44	2021/10/22 10:57	SOIL	1	A
SB-OC-12	45	2021/10/22 10:42	SOIL	1	A
SB-OC-13	46	2021/10/22 10:31	SOIL	1	A
SB-OC-14	47	2021/10/22 10:23	SOIL	1	A
SB-OC-15	48	2021/10/22 10:15	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 48

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/25

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C182766

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43128

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/16
Report #: R3099880
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C182766

Received: 2021/10/27, 15:10

Sample Matrix: Soil
Samples Received: 64

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	1	2021/11/02	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	15	2021/11/03	2021/11/03	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	28	2021/11/03	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/11/04	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 43128

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/16
Report #: R3099880
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C182766

Received: 2021/10/27, 15:10

Encryption Key

Brody Andersen
Key Account Specialist
16 Nov 2021 15:56:58

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C182766

Report Date: 2021/11/16

PARSONS INC.

Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJG592		AJG593	AJG594			AJG594		
Sampling Date		2021/10/25 10:06		2021/10/25 10:12	2021/10/25 10:16			2021/10/25 10:16		
COC Number		43128		43128	43128			43128		
	UNITS	HD-LP-01	RDL	HD-LP-02	HD-LP-03	RDL	QC Batch	HD-LP-03 REPEAT	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	27	1.0	41	570	0.50	A411827	1100	2.5	A425297
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJG595		AJG596		AJG597	AJG598	AJG599		
Sampling Date		2021/10/25 10:24		2021/10/25 10:30		2021/10/25 11:42	2021/10/25 10:40	2021/10/25 10:46		
COC Number		43128		43128		43128	43128	43128		
	UNITS	HD-LP-04	QC Batch	HD-LP-05	QC Batch	HD-LP-06	HD-LP-07	HD-LP-08	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	92	A411827	39	A412226	15	59	14	0.50	A414689
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJG600	AJG601	AJG602		AJG603	AJG604	AJG605		
Sampling Date		2021/10/25 10:52	2021/10/25 10:58	2021/10/25 11:04		2021/10/25 11:10	2021/10/25 11:16	2021/10/25 11:22		
COC Number		43128	43128	43128		43128	43128	43128		
	UNITS	HD-LP-09	HD-LP-10	HD-LP-11	QC Batch	HD-LP-12	HD-LP-13	HD-LP-14	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	47	38	29	A411827	46	35	36	0.50	A412226
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJG606	AJG607			AJG608			AJG609		
Sampling Date		2021/10/25 11:28	2021/10/25 11:34			2021/10/25 13:14			2021/10/25 13:19		
COC Number		43128	43128			43128			43128		
	UNITS	HD-LP-15	HD-LP-16	RDL	QC Batch	MI-MP-01	RDL	QC Batch	MI-MP-02	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	70	43	0.50	A412226	79	1.0	A411827	37	0.50	A412226
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJG610		AJG611		AJG612	AJG613		AJG614		
Sampling Date		2021/10/25 13:23		2021/10/25 13:28		2021/10/25 13:32	2021/10/25 13:37		2021/10/25 12:25		
COC Number		43128		43128		43128	43128		43128		
	UNITS	MI-MP-03	QC Batch	MI-MP-04	QC Batch	MI-MP-05	MI-MP-06	QC Batch	MI-MP-07	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	52	A411827	65	A412226	24	40	A414689	54	0.50	A411827
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C182766
Report Date: 2021/11/16

PARSONS INC.
Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJG615		AJG616	AJG617		AJG618	AJG619	AJG620		
Sampling Date		2021/10/25 12:29		2021/10/25 12:34	2021/10/25 12:38		2021/10/25 12:43	2021/10/25 12:47	2021/10/25 12:57		
COC Number		43128		43128	43128		43128	43128	43128		
	UNITS	MI-MP-08	RDL	MI-MP-09	MI-MP-10	QC Batch	MI-MP-11	MI-MP-12	MI-MP-13	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	38	1.0	430	270	A411827	57	40	140	0.50	A412943
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJG621		AJG622		AJG622			AJG623	AJG624		
Sampling Date		2021/10/25 12:57		2021/10/25 13:01		2021/10/25 13:01			2021/10/25 13:06	2021/10/25 13:10		
COC Number		43128		43128		43128			43128	43128		
	UNITS	MI-MP-13D	RDL	MI-MP-14	QC Batch	MI-MP-14 REPEAT	RDL	QC Batch	MI-MP-15	MI-MP-16	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	120	0.50	46000	A412943	50000	25	A425297	36	56	0.50	A412943
RDL = Reportable Detection Limit												

Bureau Veritas ID		AJG625	AJG626	AJG627	AJG628	AJG629	AJG630	AJG631		
Sampling Date		2021/10/25 14:28	2021/10/25 14:28	2021/10/25 14:17	2021/10/25 14:12	2021/10/25 14:06	2021/10/25 14:04	2021/10/25 14:33		
COC Number		43128	43128	43128	43128	43128	43128	43128		
	UNITS	MI-KP-01	MI-KP-01D	MI-KP-02	MI-KP-03	MI-KP-04	MI-KP-05	MI-KP-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	18	21	42	27	48	26	26	0.50	A412943
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJG632	AJG633	AJG634			AJG635			AJG636		
Sampling Date		2021/10/25 14:39	2021/10/25 14:45	2021/10/25 15:30			2021/10/25 15:35			2021/10/25 15:40		
COC Number		43128	43128	43128			43128			43128		
	UNITS	MI-KP-07	MI-KP-08	LX-SP-01	RDL	QC Batch	LX-SP-02	RDL	QC Batch	LX-SP-03	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	33	23	47	0.50	A412943	23	1.0	A411827	190	0.50	A412943
RDL = Reportable Detection Limit												

Bureau Veritas ID		AJG637	AJG638			AJG639		AJG640		
Sampling Date		2021/10/25 16:15	2021/10/25 16:07			2021/10/25 16:13		2021/10/25 16:10		
COC Number		43128	43128			43128		43128		
	UNITS	LX-LC-01	LX-LC-02	RDL	QC Batch	LX-LC-03	RDL	LX-LC-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	15	15	0.50	A412943	12	1.0	36	0.50	A411827
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C182766
Report Date: 2021/11/16

PARSONS INC.
Client Project #: 10-12553

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJG641			AJG641		AJG642	AJG643	AJG644		
Sampling Date		2021/10/25 16:04			2021/10/25 16:04		2021/10/25 16:01	2021/10/25 15:55	2021/10/25 15:58		
COC Number		43128			43128		43128	43128	43128		
	UNITS	LX-LC-05	RDL	QC Batch	LX-LC-05 REPEAT	QC Batch	LX-LC-06	LX-LC-07	LX-LC-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	2000	2.5	A414689	120	A425297	13	27	55	0.50	A414689
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG645	AJG646	AJG647	AJG648	AJG649	AJG650	AJG651		
Sampling Date		2021/10/25 16:55	2021/10/25 16:48	2021/10/25 16:48	2021/10/25 16:45	2021/10/25 16:40	2021/10/25 16:20	2021/10/25 16:24		
COC Number		43128	43128	43128	43128	43128	43128	43128		
	UNITS	LX-LS-01	LX-LS-02	LX-LS-02D	LX-LS-03	LX-LS-04	LX-LS-05	LX-LS-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	15	15	16	14	10	9.9	15	0.50	A414689
-----------------	-------	----	----	----	----	----	-----	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJG652	AJG653	AJG654	AJG655		
Sampling Date		2021/10/25 16:36	2021/10/25 16:32	2021/10/25 16:28	2021/10/25 17:00		
COC Number		43128	43128	43128	43128		
	UNITS	LX-LS-07	LX-LS-08	LX-LS-09	LX-LS-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	15	15	16	52	0.50	A414689
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RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.1°C
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Version 2: Report reissued to include reworked data for Total Lead samples HD-LP-03 [AJG594] and LX-LC-05 [AJG641]. Both original and reworked data is reported due to suspected non-homogeneity.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJG592 [HD-LP-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample AJG608 [MI-MP-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample AJG615 [MI-MP-08] Lead: Detection limits raised based on sample weight used for analysis.

Sample AJG635 [LX-SP-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample AJG639 [LX-LC-03] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A411827	MFP	Matrix Spike	Total Lead (Pb)	2021/11/03		120	%	75 - 125
A411827	MFP	QC Standard	Total Lead (Pb)	2021/11/03		113	%	79 - 121
A411827	MFP	Spiked Blank	Total Lead (Pb)	2021/11/03		106	%	80 - 120
A411827	MFP	Method Blank	Total Lead (Pb)	2021/11/03	<0.50		mg/kg	
A411827	MFP	RPD	Total Lead (Pb)	2021/11/03	7.1		%	35
A412226	KH2	Matrix Spike	Total Lead (Pb)	2021/11/05		NC	%	75 - 125
A412226	KH2	QC Standard	Total Lead (Pb)	2021/11/05		113	%	79 - 121
A412226	KH2	Spiked Blank	Total Lead (Pb)	2021/11/05		101	%	80 - 120
A412226	KH2	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A412226	KH2	RPD	Total Lead (Pb)	2021/11/05	2.6		%	35
A412943	MFP	Matrix Spike [AJG624-01]	Total Lead (Pb)	2021/11/05		NC	%	75 - 125
A412943	MFP	QC Standard	Total Lead (Pb)	2021/11/05		100	%	79 - 121
A412943	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		85	%	80 - 120
A412943	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A412943	MFP	RPD [AJG624-01]	Total Lead (Pb)	2021/11/05	3.9		%	35
A414689	MFP	Matrix Spike [AJG649-01]	Total Lead (Pb)	2021/11/05		91	%	75 - 125
A414689	MFP	QC Standard	Total Lead (Pb)	2021/11/05		112	%	79 - 121
A414689	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		92	%	80 - 120
A414689	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414689	MFP	RPD [AJG649-01]	Total Lead (Pb)	2021/11/05	4.6		%	35
A425297	MFP	Matrix Spike [AJG641-01]	Total Lead (Pb)	2021/11/15		NC	%	75 - 125
A425297	MFP	QC Standard	Total Lead (Pb)	2021/11/15		120	%	79 - 121
A425297	MFP	Spiked Blank	Total Lead (Pb)	2021/11/15		93	%	80 - 120
A425297	MFP	Method Blank	Total Lead (Pb)	2021/11/15	<0.50		mg/kg	
A425297	MFP	RPD [AJG641-01]	Total Lead (Pb)	2021/11/15	22		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C182766

Report Date: 2021/11/16

PARSONS INC.

Client Project #: 10-12553

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43128

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: HD-LP-01
Last Sample: LX-LS-10
Sample Count: 64

Relinquished By				Received By			
Adam Wiebe		Date	2021/10/27	Amarjita Bora		Date	2021/10/27
		Time (24 HR)	11:00			Time (24 HR)	15:10
		Date		Reem Phillipos		Date	2021/10/28
		Time (24 HR)				Time (24 HR)	08:20
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐Immediate Test ☐Food Residue ☐Micro ☐Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

C182766

Verified By

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
		N	19.1	19.1	19.1
Y	Y	N	20	20	20
Y	Y	N	18	17	7
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43128



Project Information: C182766
Job Received: 2021/10/27 15:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
jesse.bursee@parsons.com
calgary.labreport@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
HD-LP-01	1	2021/10/25 10:06	SOIL	1	A
HD-LP-02	2	2021/10/25 10:12	SOIL	1	A
HD-LP-03	3	2021/10/25 10:16	SOIL	1	A
HD-LP-04	4	2021/10/25 10:24	SOIL	1	A
HD-LP-05	5	2021/10/25 10:30	SOIL	1	A
HD-LP-06	6	2021/10/25 11:42	SOIL	1	A
HD-LP-07	7	2021/10/25 10:40	SOIL	1	A
HD-LP-08	8	2021/10/25 10:46	SOIL	1	A
HD-LP-09	9	2021/10/25 10:52	SOIL	1	A
HD-LP-10	10	2021/10/25 10:58	SOIL	1	A
HD-LP-11	11	2021/10/25 11:04	SOIL	1	A
HD-LP-12	12	2021/10/25 11:10	SOIL	1	A
HD-LP-13	13	2021/10/25 11:16	SOIL	1	A
HD-LP-14	14	2021/10/25 11:22	SOIL	1	A
HD-LP-15	15	2021/10/25 11:28	SOIL	1	A
HD-LP-16	16	2021/10/25 11:34	SOIL	1	A
MI-MP-01	17	2021/10/25 13:14	SOIL	1	A
MI-MP-02	18	2021/10/25 13:19	SOIL	1	A



eCOC: W43128



Project Information: C182766
Job Received: 2021/10/27 15:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
MI-MP-03	19	2021/10/25 13:23	SOIL	1	A
MI-MP-04	20	2021/10/25 13:28	SOIL	1	A
MI-MP-05	21	2021/10/25 13:32	SOIL	1	A
MI-MP-06	22	2021/10/25 13:37	SOIL	1	A
MI-MP-07	23	2021/10/25 12:25	SOIL	1	A
MI-MP-08	24	2021/10/25 12:29	SOIL	1	A
MI-MP-09	25	2021/10/25 12:34	SOIL	1	A
MI-MP-10	26	2021/10/25 12:38	SOIL	1	A
MI-MP-11	27	2021/10/25 12:43	SOIL	1	A
MI-MP-12	28	2021/10/25 12:47	SOIL	1	A
MI-MP-13	29	2021/10/25 12:57	SOIL	1	A
MI-MP-13D	30	2021/10/25 12:57	SOIL	1	A
MI-MP-14	31	2021/10/25 13:01	SOIL	1	A
MI-MP-15	32	2021/10/25 13:06	SOIL	1	A
MI-MP-16	33	2021/10/25 13:10	SOIL	1	A
MI-KP-01	34	2021/10/25 14:28	SOIL	1	A
MI-KP-01D	35	2021/10/25 14:28	SOIL	1	A
MI-KP-02	36	2021/10/25 14:17	SOIL	1	A
MI-KP-03	37	2021/10/25 14:12	SOIL	1	A
MI-KP-04	38	2021/10/25 14:06	SOIL	1	A
MI-KP-05	39	2021/10/25 14:04	SOIL	1	A
MI-KP-06	40	2021/10/25 14:33	SOIL	1	A
MI-KP-07	41	2021/10/25 14:39	SOIL	1	A



eCOC: W43128



Project Information: C182766
Job Received: 2021/10/27 15:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
MI-KP-08	42	2021/10/25 14:45	SOIL	1	A
LX-SP-01	43	2021/10/25 15:30	SOIL	1	A
LX-SP-02	44	2021/10/25 15:35	SOIL	1	A
LX-SP-03	45	2021/10/25 15:40	SOIL	1	A
LX-LC-01	46	2021/10/25 16:15	SOIL	1	A
LX-LC-02	47	2021/10/25 16:07	SOIL	1	A
LX-LC-03	48	2021/10/25 16:13	SOIL	1	A
LX-LC-04	49	2021/10/25 16:10	SOIL	1	A
LX-LC-05	50	2021/10/25 16:04	SOIL	1	A
LX-LC-06	51	2021/10/25 16:01	SOIL	1	A
LX-LC-07	52	2021/10/25 15:55	SOIL	1	A
LX-LC-08	53	2021/10/25 15:58	SOIL	1	A
LX-LS-01	54	2021/10/25 16:55	SOIL	1	A
LX-LS-02	55	2021/10/25 16:48	SOIL	1	A
LX-LS-02D	56	2021/10/25 16:48	SOIL	1	A
LX-LS-03	57	2021/10/25 16:45	SOIL	1	A
LX-LS-04	58	2021/10/25 16:40	SOIL	1	A
LX-LS-05	59	2021/10/25 16:20	SOIL	1	A
LX-LS-06	60	2021/10/25 16:24	SOIL	1	A
LX-LS-07	61	2021/10/25 16:36	SOIL	1	A
LX-LS-08	62	2021/10/25 16:32	SOIL	1	A
LX-LS-09	63	2021/10/25 16:28	SOIL	1	A
LX-LS-10	64	2021/10/25 17:00	SOIL	1	A



eCOC: W43128



Project Information: C182766
Job Received: 2021/10/27 15:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 64

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/26

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C182827

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43130

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/09
Report #: R3097066
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C182827

Received: 2021/10/27, 13:10

Sample Matrix: Soil
Samples Received: 71

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	20	2021/11/03	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	51	2021/11/03	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 43130

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/09
Report #: R3097066
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C182827

Received: 2021/10/27, 13:10

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

09 Nov 2021 14:23:47

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C182827

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJG964		AJG965	AJG966	AJG967		AJG968		
Sampling Date		2021/10/26 10:30		2021/10/26 10:25	2021/10/26 10:20	2021/10/26 10:15		2021/10/26 10:10		
COC Number		43130		43130	43130	43130		43130		
	UNITS	AW-HP-01	QC Batch	AW-HP-02	AW-HP-03	AW-HP-04	QC Batch	AW-HP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	47	A412226	55	29	29	A412446	27	0.50	A412229
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG969	AJG970		AJG971	AJG972		AJG973		
Sampling Date		2021/10/26 10:07	2021/10/26 10:02		2021/10/26 09:30	2021/10/26 09:25		2021/10/26 09:15		
COC Number		43130	43130		43130	43130		43130		
	UNITS	AW-HP-06	AW-HP-07	QC Batch	AW-HP-08	AW-HP-09	QC Batch	AW-HP-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	52	130	A412226	18	23	A412229	25	0.50	A412446
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG974		AJG975		AJG976	AJG977	AJG978		
Sampling Date		2021/10/26 09:20		2021/10/26 09:35		2021/10/26 09:40	2021/10/26 09:45	2021/10/26 09:50		
COC Number		43130		43130		43130	43130	43130		
	UNITS	AW-HP-11	QC Batch	AW-HP-12	QC Batch	AW-HP-13	AW-HP-14	AW-HP-15	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	35	A412229	68	A412340	72	140	250	0.50	A412446
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG979	AJG980	AJG981	AJG982		AJG983		
Sampling Date		2021/10/26 09:55	2021/10/26 09:05	2021/10/26 09:05	2021/10/26 09:10		2021/10/26 10:50		
COC Number		43130	43130	43130	43130		43130		
	UNITS	AW-HP-16	AW-HP-17	AW-HP-17D	AW-HP-18	QC Batch	AW-AC-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	59	50	51	48	A412446	6.1	0.50	A412229
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG984		AJG985		AJG986	AJG987	AJG988		
Sampling Date		2021/10/26 10:55		2021/10/26 10:58		2021/10/26 11:05	2021/10/26 11:10	2021/10/26 11:20		
COC Number		43130		43130		43130	43130	43130		
	UNITS	AW-AC-02	QC Batch	AW-AC-03	QC Batch	AW-AC-04	AW-AC-05	AW-AC-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	33	A412340	29	A412229	44	22	33	0.50	A412340
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C182827

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJG989	AJG990	AJG991		AJG992		AJG993		
Sampling Date		2021/10/26 12:05	2021/10/26 12:12	2021/10/26 12:20		2021/10/26 12:28		2021/10/26 13:45		
COC Number		43130	43130	43130		43130		43130		
	UNITS	AW-DP-01	AW-DP-02	AW-DP-03	QC Batch	AW-DP-04	QC Batch	NE-CC-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	36	25	55	A412340	31	A412229	33	0.50	A412446
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG994	AJG995	AJG996	AJG997		AJG998		
Sampling Date		2021/10/26 13:48	2021/10/26 13:00	2021/10/26 13:04	2021/10/26 13:08		2021/10/26 13:12		
COC Number		43130	43130	43130	43130		43130		
	UNITS	NE-CC-02	NE-CC-03	NE-CC-04	NE-CC-05	QC Batch	NE-CC-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	48	13	16	15	A412340	13	0.50	A412229
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJG999		AJH000	AJH001		AJH002		AJH003		
Sampling Date		2021/10/26 13:14		2021/10/26 13:20	2021/10/26 13:24		2021/10/26 13:28		2021/10/26 13:30		
COC Number		43130		43130	43130		43130		43130		
	UNITS	NE-CC-07	QC Batch	NE-CC-08	NE-CC-09	QC Batch	NE-CC-10	QC Batch	NE-CC-11	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	9.9	A412340	19	18	A412229	12	A412446	11	0.50	A412226
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJH004		AJH005		AJH006		AJH007		
Sampling Date		2021/10/26 13:32		2021/10/26 15:35		2021/10/26 13:40		2021/10/26 13:16		
COC Number		43130		43130		43130		43130		
	UNITS	NE-CC-12	QC Batch	NE-CC-13	QC Batch	NE-CC-14	QC Batch	NE-CC-15	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	11	A412229	35	A412340	23	A412226	14	0.50	A412446
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJH008	AJH009	AJH010		AJH011		AJH012		
Sampling Date		2021/10/26 13:50	2021/10/26 14:10	2021/10/26 14:15		2021/10/26 14:20		2021/10/26 14:25		
COC Number		43130	43130	43130		43130		43130		
	UNITS	NE-CC-16	NE-CP-01	NE-CP-02	QC Batch	NE-CP-03	QC Batch	NE-CP-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	12	56	16	A412340	80	A412229	140	0.50	A412340
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C182827

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJH013		AJH014		AJH015	AJH016		AJH017		
Sampling Date		2021/10/26 14:45		2021/10/26 14:48		2021/10/26 14:51	2021/10/26 14:54		2021/10/26 14:57		
COC Number		43130		43130		43130	43130		43130		
	UNITS	NE-TP-01	QC Batch	NE-TP-02	QC Batch	NE-TP-03	NE-TP-04	QC Batch	NE-TP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	14	A412229	12	A412226	59	16	A412340	69	0.50	A412229
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJH018		AJH019	AJH020		AJH021		AJH022		
Sampling Date		2021/10/26 15:00		2021/10/26 15:03	2021/10/26 15:06		2021/10/26 15:12		2021/10/26 15:42		
COC Number		43130		43130	43130		43130		43130		
	UNITS	NE-TP-06	QC Batch	NE-TP-07	NE-TP-08	QC Batch	NE-TP-09	QC Batch	SY-AS-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	78	A412229	850	170	A412446	20	A412229	9.5	0.50	A412446
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJH023	AJH024	AJH025		AJH026	AJH027	AJH028		
Sampling Date		2021/10/26 15:45	2021/10/26 15:48	2021/10/26 15:50		2021/10/26 15:51	2021/10/26 15:54	2021/10/26 15:57		
COC Number		43130	43130	43130		43130	43130	43130		
	UNITS	SY-AS-02	SY-AS-03	SY-AS-04	QC Batch	SY-AS-05	SY-AS-06	SY-AS-07	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	25	26	16	A412446	16	42	14	0.50	A412226
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJH029		AJH030		AJH031	AJH032		AJH033		
Sampling Date		2021/10/26 16:00		2021/10/26 16:05		2021/10/26 16:15	2021/10/26 16:20		2021/10/26 15:35		
COC Number		43130		43130		43130	43130		43130		
	UNITS	SY-AS-08	QC Batch	SY-AS-09	QC Batch	SY-AS-10	SY-AS-11	QC Batch	SY-AS-12	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	12	A412226	24	A412229	54	14	A412226	16	0.50	A412229
-----------------	-------	----	---------	----	---------	----	----	---------	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJH034		
Sampling Date		2021/10/26 15:39		
COC Number		43130		
	UNITS	SY-AS-13	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	18	0.50	A412229
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C182827

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.2°C
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Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C182827

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A412226	KH2	Matrix Spike [AJG969-01]	Total Lead (Pb)	2021/11/05		NC	%	75 - 125
A412226	KH2	QC Standard	Total Lead (Pb)	2021/11/05		113	%	79 - 121
A412226	KH2	Spiked Blank	Total Lead (Pb)	2021/11/05		101	%	80 - 120
A412226	KH2	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A412226	KH2	RPD [AJG969-01]	Total Lead (Pb)	2021/11/05	2.6		%	35
A412229	MFP	Matrix Spike	Total Lead (Pb)	2021/11/05		NC	%	75 - 125
A412229	MFP	QC Standard	Total Lead (Pb)	2021/11/05		117	%	79 - 121
A412229	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		99	%	80 - 120
A412229	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A412229	MFP	RPD	Total Lead (Pb)	2021/11/05	0.89		%	35
A412340	MFP	Matrix Spike [AJH016-01]	Total Lead (Pb)	2021/11/04		104	%	75 - 125
A412340	MFP	QC Standard	Total Lead (Pb)	2021/11/04		112	%	79 - 121
A412340	MFP	Spiked Blank	Total Lead (Pb)	2021/11/04		110	%	80 - 120
A412340	MFP	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412340	MFP	RPD [AJH016-01]	Total Lead (Pb)	2021/11/04	9.0		%	35
A412446	KH2	Matrix Spike [AJH022-01]	Total Lead (Pb)	2021/11/04		92	%	75 - 125
A412446	KH2	QC Standard	Total Lead (Pb)	2021/11/04		94	%	79 - 121
A412446	KH2	Spiked Blank	Total Lead (Pb)	2021/11/04		110	%	80 - 120
A412446	KH2	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412446	KH2	RPD [AJH022-01]	Total Lead (Pb)	2021/11/05	14		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C182827

Report Date: 2021/11/09

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "S. Yuan", written over a horizontal line.

Sandy Yuan, M.Sc., QP, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



1573
Custody Tracking Form



W43130

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: AW-HP-01
Last Sample: SY-AS-13
Sample Count: 71

Relinquished By				Received By			
Adam Wiebe		Date	2021/10/27	Amarjit Bawa		Date	2021/10/27
		Time (24 HR)	11:00			Time (24 HR)	1310
		Date		Reem Phillipos		Date	2021/10/28
		Time (24 HR)				Time (24 HR)	08:20
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab

27-Oct-21 13:10

Labeled By

Parminder Virk



C182827

Verified By

MXP

INS-0087

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	18.3	18.3	18.1
Y	Y	N	16	17	17
Y	Y	N	15	14	14
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43130



Project Information: C182827
Job Received: 2021/10/27 13:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
AW-HP-01	1	2021/10/26 10:30	SOIL	1	A
AW-HP-02	2	2021/10/26 10:25	SOIL	1	A
AW-HP-03	3	2021/10/26 10:20	SOIL	1	A
AW-HP-04	4	2021/10/26 10:15	SOIL	1	A
AW-HP-05	5	2021/10/26 10:10	SOIL	1	A
AW-HP-06	6	2021/10/26 10:07	SOIL	1	A
AW-HP-07	7	2021/10/26 10:02	SOIL	1	A
AW-HP-08	8	2021/10/26 09:30	SOIL	1	A
AW-HP-09	9	2021/10/26 09:25	SOIL	1	A
AW-HP-10	10	2021/10/26 09:15	SOIL	1	A
AW-HP-11	11	2021/10/26 09:20	SOIL	1	A
AW-HP-12	12	2021/10/26 09:35	SOIL	1	A
AW-HP-13	13	2021/10/26 09:40	SOIL	1	A
AW-HP-14	14	2021/10/26 09:45	SOIL	1	A
AW-HP-15	15	2021/10/26 09:50	SOIL	1	A
AW-HP-16	16	2021/10/26 09:55	SOIL	1	A
AW-HP-17	17	2021/10/26 09:05	SOIL	1	A
AW-HP-17D	18	2021/10/26 09:05	SOIL	1	A



eCOC: W43130



Project Information: C182827
Job Received: 2021/10/27 13:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
AW-HP-18	19	2021/10/26 09:10	SOIL	1	A
AW-AC-01	20	2021/10/26 10:50	SOIL	1	A
AW-AC-02	21	2021/10/26 10:55	SOIL	1	A
AW-AC-03	22	2021/10/26 10:58	SOIL	1	A
AW-AC-04	23	2021/10/26 11:05	SOIL	1	A
AW-AC-05	24	2021/10/26 11:10	SOIL	1	A
AW-AC-06	25	2021/10/26 11:20	SOIL	1	A
AW-DP-01	26	2021/10/26 12:05	SOIL	1	A
AW-DP-02	27	2021/10/26 12:12	SOIL	1	A
AW-DP-03	28	2021/10/26 12:20	SOIL	1	A
AW-DP-04	29	2021/10/26 12:28	SOIL	1	A
NE-CC-01	30	2021/10/26 13:45	SOIL	1	A
NE-CC-02	31	2021/10/26 13:48	SOIL	1	A
NE-CC-03	32	2021/10/26 13:00	SOIL	1	A
NE-CC-04	33	2021/10/26 13:04	SOIL	1	A
NE-CC-05	34	2021/10/26 13:08	SOIL	1	A
NE-CC-06	35	2021/10/26 13:12	SOIL	1	A
NE-CC-07	36	2021/10/26 13:14	SOIL	1	A
NE-CC-08	37	2021/10/26 13:20	SOIL	1	A
NE-CC-09	38	2021/10/26 13:24	SOIL	1	A
NE-CC-10	39	2021/10/26 13:28	SOIL	1	A
NE-CC-11	40	2021/10/26 13:30	SOIL	1	A
NE-CC-12	41	2021/10/26 13:32	SOIL	1	A



eCOC: W43130



Project Information: C182827
Job Received: 2021/10/27 13:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
NE-CC-13	42	2021/10/26 15:35	SOIL	1	A
NE-CC-14	43	2021/10/26 13:40	SOIL	1	A
NE-CC-15	44	2021/10/26 13:16	SOIL	1	A
NE-CC-16	45	2021/10/26 13:50	SOIL	1	A
NE-CP-01	46	2021/10/26 14:10	SOIL	1	A
NE-CP-02	47	2021/10/26 14:15	SOIL	1	A
NE-CP-03	48	2021/10/26 14:20	SOIL	1	A
NE-CP-04	49	2021/10/26 14:25	SOIL	1	A
NE-TP-01	50	2021/10/26 14:45	SOIL	1	A
NE-TP-02	51	2021/10/26 14:48	SOIL	1	A
NE-TP-03	52	2021/10/26 14:51	SOIL	1	A
NE-TP-04	53	2021/10/26 14:54	SOIL	1	A
NE-TP-05	54	2021/10/26 14:57	SOIL	1	A
NE-TP-06	55	2021/10/26 15:00	SOIL	1	A
NE-TP-07	56	2021/10/26 15:03	SOIL	1	A
NE-TP-08	57	2021/10/26 15:06	SOIL	1	A
NE-TP-09	58	2021/10/26 15:12	SOIL	1	A
SY-AS-01	59	2021/10/26 15:42	SOIL	1	A
SY-AS-02	60	2021/10/26 15:45	SOIL	1	A
SY-AS-03	61	2021/10/26 15:48	SOIL	1	A
SY-AS-04	62	2021/10/26 15:50	SOIL	1	A
SY-AS-05	63	2021/10/26 15:51	SOIL	1	A
SY-AS-06	64	2021/10/26 15:54	SOIL	1	A



eCOC: W43130



Project Information: C182827
Job Received: 2021/10/27 13:10
Results Required By: 2021/11/03 15:00
Expected Arrival: 2021/10/27 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/03 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SY-AS-07	65	2021/10/26 15:57	SOIL	1	A
SY-AS-08	66	2021/10/26 16:00	SOIL	1	A
SY-AS-09	67	2021/10/26 16:05	SOIL	1	A
SY-AS-10	68	2021/10/26 16:15	SOIL	1	A
SY-AS-11	69	2021/10/26 16:20	SOIL	1	A
SY-AS-12	70	2021/10/26 15:35	SOIL	1	A
SY-AS-13	71	2021/10/26 15:39	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 71

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/27 to 2021/10/28

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C184210

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43223

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/12
Report #: R3098401
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C184210

Received: 2021/10/29, 14:40

Sample Matrix: Soil
Samples Received: 47

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	15	2021/11/04	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	31	2021/11/05	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	1	2021/11/10	2021/11/10	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 43223

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/12
Report #: R3098401
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C184210

Received: 2021/10/29, 14:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

12 Nov 2021 14:54:10

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C184210

Report Date: 2021/11/12

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP164		AJP165		AJP166		AJP167		AJP168		
Sampling Date		2021/10/27 13:58		2021/10/27 14:14		2021/10/27 14:14		2021/10/27 14:22		2021/10/27 14:30		
COC Number		43223		43223		43223		43223		43223		
	UNITS	NE-HP-01	QC Batch	NE-HP-02	RDL	NE-HP-02D	RDL	NE-HP-03	QC Batch	NE-HP-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	23	A414692	48	0.50	40	1.0	22	A414952	16	0.50	A414692
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP169		AJP170		AJP171			AJP172	AJP173		
Sampling Date		2021/10/27 14:36		2021/10/27 14:40		2021/10/27 14:43			2021/10/27 14:47	2021/10/27 14:50		
COC Number		43223		43223		43223			43223	43223		
	UNITS	NE-FP-01	RDL	NE-FP-02	RDL	NE-FP-03	RDL	QC Batch	NE-FP-04	NE-FP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	38	0.50	34	1.0	20	0.50	A414692	28	21	1.0	A414952
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP174			AJP175	AJP176	AJP177			AJP178		
Sampling Date		2021/10/27 14:53			2021/10/27 14:57	2021/10/27 15:01	2021/10/27 15:05			2021/10/27 15:09		
COC Number		43223			43223	43223	43223			43223		
	UNITS	NE-FP-06	RDL	QC Batch	NE-FP-07	NE-FP-08	NE-FP-09	RDL	QC Batch	NE-FP-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	19	1.0	A414952	15	17	40	0.50	A414692	44	1.0	A414975
-----------------	-------	----	-----	---------	----	----	----	------	---------	----	-----	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJP179	AJP180	AJP181	AJP182		AJP183		
Sampling Date		2021/10/28 09:30	2021/10/28 09:35	2021/10/28 09:36	2021/10/28 09:39		2021/10/28 09:42		
COC Number		43223	43223	43223	43223		43223		
	UNITS	WP-HP-01	WP-HP-02	WP-HP-03	WP-HP-04	QC Batch	WP-HP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	16	36	28	14	A414692	27	1.0	A414975
-----------------	-------	----	----	----	----	---------	----	-----	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJP184		AJP185			AJP186	AJP187		
Sampling Date		2021/10/28 09:45		2021/10/28 09:48			2021/10/28 09:52	2021/10/28 09:56		
COC Number		43223		43223			43223	43223		
	UNITS	WP-HP-06	QC Batch	WP-HP-07	RDL	QC Batch	WP-HP-08	WP-HP-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	50	A414934	22	0.50	A414692	22	23	1.0	A414975
-----------------	-------	----	---------	----	------	---------	----	----	-----	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C184210
Report Date: 2021/11/12

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP188	AJP189			AJP190			AJP191	AJP192		
Sampling Date		2021/10/28 10:00	2021/10/28 10:02			2021/10/28 10:07			2021/10/28 10:04	2021/10/28 10:10		
COC Number		43223	43223			43223			43223	43223		
	UNITS	WP-EH-01	WP-EH-02	RDL	QC Batch	WP-EH-03	RDL	QC Batch	WP-EH-04	WP-EH-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	30	25	0.50	A414934	45	1.0	A414692	25	21	0.50	A414934
-----------------	-------	----	----	------	---------	----	-----	---------	----	----	------	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJP193				AJP194			AJP195	AJP196		
Sampling Date		2021/10/28 10:13				2021/10/28 10:17			2021/10/28 10:20	2021/10/28 10:21		
COC Number		43223				43223			43223	43223		
	UNITS	WP-EH-06	RDL	QC Batch	WP-EH-07	QC Batch	WP-EH-08	WP-EH-09	RDL	QC Batch		

Elements

Total Lead (Pb)	mg/kg	46	0.50	A414934	14	A414952	23	21	1.0	A415347
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP197	AJP198			AJP199	AJP200	AJP201		
Sampling Date		2021/10/28 10:27	2021/10/28 10:36			2021/10/28 10:33	2021/10/28 11:00	2021/10/28 11:05		
COC Number		43223	43223			43223	43223	43223		
	UNITS	WP-EH-10	WP-EH-11	RDL	QC Batch	WP-EH-12	WP-FC-01	WP-FC-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	17	20	0.50	A414934	18	13	13	1.0	A414952
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP202	AJP203			AJP204			AJP205		
Sampling Date		2021/10/28 11:10	2021/10/28 11:15			2021/10/28 11:15			2021/10/28 11:20		
COC Number		43223	43223			43223			43223		
	UNITS	WP-FC-03	WP-FC-04	RDL	QC Batch	WP-FC-04D	RDL	QC Batch	WP-FC-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	14	15	1.0	A414975	15	0.50	A414952	11	1.0	A415347
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP206			AJP207		AJP208	AJP209		
Sampling Date		2021/10/28 11:25			2021/10/28 11:30		2021/10/28 11:35	2021/10/28 11:40		
COC Number		43223			43223		43223	43223		
	UNITS	WP-FC-06	QC Batch	WP-FC-07	QC Batch	WP-FC-08	WP-FC-09	RDL	QC Batch	

Elements

Total Lead (Pb)	mg/kg	12	A414952	14	A420770	8.8	29	1.0	A414952
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C184210

Report Date: 2021/11/12

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP210		
Sampling Date		2021/10/28 11:45		
COC Number		43223		
	UNITS	WP-FC-10	RDL	QC Batch
Elements				
Total Lead (Pb)	mg/kg	12	0.50	A414692
RDL = Reportable Detection Limit				



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.1°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJP166 [NE-HP-02D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP170 [NE-FP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP172 [NE-FP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP173 [NE-FP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP174 [NE-FP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP178 [NE-FP-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP179 [WP-HP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP180 [WP-HP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP181 [WP-HP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP182 [WP-HP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP183 [WP-HP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP186 [WP-HP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP187 [WP-HP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP190 [WP-EH-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP194 [WP-EH-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP195 [WP-EH-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP196 [WP-EH-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP199 [WP-EH-12] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP200 [WP-FC-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP201 [WP-FC-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP202 [WP-FC-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP203 [WP-FC-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP205 [WP-FC-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP206 [WP-FC-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP207 [WP-FC-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP208 [WP-FC-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP209 [WP-FC-09] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C184210

Report Date: 2021/11/12

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A414692	LQ1	Matrix Spike [AJP177-01]	Total Lead (Pb)	2021/11/05		76	%	75 - 125
A414692	LQ1	QC Standard	Total Lead (Pb)	2021/11/05		107	%	79 - 121
A414692	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/05		93	%	80 - 120
A414692	LQ1	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414692	LQ1	RPD [AJP177-01]	Total Lead (Pb)	2021/11/05	6.2		%	35
A414934	KH2	Matrix Spike [AJP189-01]	Total Lead (Pb)	2021/11/05		89	%	75 - 125
A414934	KH2	QC Standard	Total Lead (Pb)	2021/11/05		113	%	79 - 121
A414934	KH2	Spiked Blank	Total Lead (Pb)	2021/11/05		91	%	80 - 120
A414934	KH2	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414934	KH2	RPD [AJP189-01]	Total Lead (Pb)	2021/11/05	4.0		%	35
A414952	MFP	Matrix Spike	Total Lead (Pb)	2021/11/05		100	%	75 - 125
A414952	MFP	QC Standard	Total Lead (Pb)	2021/11/05		112	%	79 - 121
A414952	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		94	%	80 - 120
A414952	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414952	MFP	RPD	Total Lead (Pb)	2021/11/05	1.8		%	35
A414975	MFP	Matrix Spike	Total Lead (Pb)	2021/11/05		84	%	75 - 125
A414975	MFP	QC Standard	Total Lead (Pb)	2021/11/05		112	%	79 - 121
A414975	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		95	%	80 - 120
A414975	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414975	MFP	RPD	Total Lead (Pb)	2021/11/05	18		%	35
A415347	MFP	Matrix Spike	Total Lead (Pb)	2021/11/05		86	%	75 - 125
A415347	MFP	QC Standard	Total Lead (Pb)	2021/11/05		109	%	79 - 121
A415347	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		93	%	80 - 120
A415347	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A415347	MFP	RPD	Total Lead (Pb)	2021/11/05	7.7		%	35
A420770	MFP	Matrix Spike	Total Lead (Pb)	2021/11/10		94	%	75 - 125
A420770	MFP	QC Standard	Total Lead (Pb)	2021/11/10		115	%	79 - 121
A420770	MFP	Spiked Blank	Total Lead (Pb)	2021/11/10		96	%	80 - 120
A420770	MFP	Method Blank	Total Lead (Pb)	2021/11/10	<0.50		mg/kg	
A420770	MFP	RPD	Total Lead (Pb)	2021/11/10	2.3		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C184210

Report Date: 2021/11/12

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43223

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: NE-HP-01
Last Sample: WP-FC-10
Sample Count: 47

Relinquished By				Received By			
Adam Wiebe	<i>AW</i>	Date	2021/10/29	Amarjit Brar	<i>AB</i>	Date	2021/10/29
		Time (24 HR)	11:00			Time (24 HR)	1440
		Date		Adam Fishleigh	<i>AF</i>	Date	2021/10/30
		Time (24 HR)				Time (24 HR)	15:00
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Adam Wiebe

1

Rush ☐Immediate Test ☐Food Residue ☐Micro ☐Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C184210

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.1	19.1	19.1
			ACTR		
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43223



Project Information: C184210
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
NE-HP-01	1	2021/10/27 13:58	SOIL	1	A
NE-HP-02	2	2021/10/27 14:14	SOIL	1	A
NE-HP-02D	3	2021/10/27 14:14	SOIL	1	A
NE-HP-03	4	2021/10/27 14:22	SOIL	1	A
NE-HP-04	5	2021/10/27 14:30	SOIL	1	A
NE-FP-01	6	2021/10/27 14:36	SOIL	1	A
NE-FP-02	7	2021/10/27 14:40	SOIL	1	A
NE-FP-03	8	2021/10/27 14:43	SOIL	1	A
NE-FP-04	9	2021/10/27 14:47	SOIL	1	A
NE-FP-05	10	2021/10/27 14:50	SOIL	1	A
NE-FP-06	11	2021/10/27 14:53	SOIL	1	A
NE-FP-07	12	2021/10/27 14:57	SOIL	1	A
NE-FP-08	13	2021/10/27 15:01	SOIL	1	A
NE-FP-09	14	2021/10/27 15:05	SOIL	1	A
NE-FP-10	15	2021/10/27 15:09	SOIL	1	A
WP-HP-01	16	2021/10/28 09:30	SOIL	1	A
WP-HP-02	17	2021/10/28 09:35	SOIL	1	A
WP-HP-03	18	2021/10/28 09:36	SOIL	1	A



eCOC: W43223



Project Information: C184210
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-HP-04	19	2021/10/28 09:39	SOIL	1	A
WP-HP-05	20	2021/10/28 09:42	SOIL	1	A
WP-HP-06	21	2021/10/28 09:45	SOIL	1	A
WP-HP-07	22	2021/10/28 09:48	SOIL	1	A
WP-HP-08	23	2021/10/28 09:52	SOIL	1	A
WP-HP-09	24	2021/10/28 09:56	SOIL	1	A
WP-EH-01	25	2021/10/28 10:00	SOIL	1	A
WP-EH-02	26	2021/10/28 10:02	SOIL	1	A
WP-EH-03	27	2021/10/28 10:07	SOIL	1	A
WP-EH-04	28	2021/10/28 10:04	SOIL	1	A
WP-EH-05	29	2021/10/28 10:10	SOIL	1	A
WP-EH-06	30	2021/10/28 10:13	SOIL	1	A
WP-EH-07	31	2021/10/28 10:17	SOIL	1	A
WP-EH-08	32	2021/10/28 10:20	SOIL	1	A
WP-EH-09	33	2021/10/28 10:21	SOIL	1	A
WP-EH-10	34	2021/10/28 10:27	SOIL	1	A
WP-EH-11	35	2021/10/28 10:36	SOIL	1	A
WP-EH-12	36	2021/10/28 10:33	SOIL	1	A
WP-FC-01	37	2021/10/28 11:00	SOIL	1	A
WP-FC-02	38	2021/10/28 11:05	SOIL	1	A
WP-FC-03	39	2021/10/28 11:10	SOIL	1	A
WP-FC-04	40	2021/10/28 11:15	SOIL	1	A
WP-FC-04D	41	2021/10/28 11:15	SOIL	1	A



eCOC: W43223



Project Information: C184210
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-FC-05	42	2021/10/28 11:20	SOIL	1	A
WP-FC-06	43	2021/10/28 11:25	SOIL	1	A
WP-FC-07	44	2021/10/28 11:30	SOIL	1	A
WP-FC-08	45	2021/10/28 11:35	SOIL	1	A
WP-FC-09	46	2021/10/28 11:40	SOIL	1	A
WP-FC-10	47	2021/10/28 11:45	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 47

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/28

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C184213

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43225

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/10
Report #: R3097802
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C184213

Received: 2021/10/29, 14:40

Sample Matrix: Soil
Samples Received: 51

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	5	2021/11/04	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	46	2021/11/05	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 43225

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/10
Report #: R3097802
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C184213

Received: 2021/10/29, 14:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

10 Nov 2021 15:55:06

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C184213

Report Date: 2021/11/10

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP213		AJP214	AJP215	AJP216	AJP217		AJP218		
Sampling Date		2021/10/28 12:02		2021/10/28 12:06	2021/10/28 12:06	2021/10/28 12:09	2021/10/28 12:12		2021/10/28 12:15		
COC Number		43225		43225	43225	43225	43225		43225		
	UNITS	WP-FP-01	RDL	WP-FP-02	WP-FP-02D	WP-FP-03	WP-FP-04	RDL	WP-FP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	12	0.50	21	21	22	20	1.0	20	0.50	A414930
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP219	AJP220	AJP221	AJP222	AJP223	AJP224		
Sampling Date		2021/10/28 12:18	2021/10/28 12:20	2021/10/28 12:23	2021/10/28 12:26	2021/10/28 12:29	2021/10/28 12:32		
COC Number		43225	43225	43225	43225	43225	43225		
	UNITS	WP-FP-06	WP-FP-07	WP-FP-08	WP-FP-09	WP-FP-10	WP-FP-11	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	10	9.6	7.6	19	24	19	1.0	A414930
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP225		AJP226		AJP227	AJP228		AJP229		
Sampling Date		2021/10/28 12:35		2021/10/28 13:17		2021/10/28 13:23	2021/10/28 13:23		2021/10/28 13:25		
COC Number		43225		43225		43225	43225		43225		
	UNITS	WP-FP-12	RDL	WP-WC-01	QC Batch	WP-WC-02	WP-WC-02D	QC Batch	WP-WC-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	12	0.50	5.2	A414975	7.3	5.4	A414934	3.8	1.0	A414930
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP230	AJP231			AJP232			AJP233	AJP234		
Sampling Date		2021/10/28 13:27	2021/10/28 13:29			2021/10/28 13:32			2021/10/28 13:34	2021/10/28 13:36		
COC Number		43225	43225			43225			43225	43225		
	UNITS	WP-WC-04	WP-WC-05	RDL	QC Batch	WP-WC-06	RDL	QC Batch	WP-WC-07	WP-WC-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	4.1	18	1.0	A414930	47	0.50	A414934	33	15	1.0	A414930
-----------------	-------	-----	----	-----	---------	----	------	---------	----	----	-----	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		AJP235		AJP236	AJP237		AJP238	AJP239	AJP241		
Sampling Date		2021/10/28 13:39		2021/10/28 13:41	2021/10/28 13:43		2021/10/28 13:46	2021/10/28 13:49	2021/10/28 13:52		
COC Number		43225		43225	43225		43225	43225	43225		
	UNITS	WP-WC-09	RDL	WP-WC-10	WP-WC-11	QC Batch	WP-WC-12	WP-WC-13	WP-WC-14	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	11	0.50	16	9.6	A414975	7.8	10	9.9	1.0	A414930
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C184213

Report Date: 2021/11/10

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP242		AJP243		AJP244		AJP245		AJP246		
Sampling Date		2021/10/28 13:55		2021/10/28 14:45		2021/10/28 14:47		2021/10/28 14:49		2021/10/28 14:52		
COC Number		43225		43225		43225		43225		43225		
	UNITS	WP-WC-15	RDL	WP-CP-01	RDL	WP-CP-02	RDL	WP-CP-03	RDL	WP-CP-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	14	1.0	30	0.50	17	1.0	7.8	0.50	24	1.0	A414975
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP247	AJP248		AJP249		AJP250		
Sampling Date		2021/10/28 14:55	2021/10/28 14:58		2021/10/28 15:01		2021/10/28 15:04		
COC Number		43225	43225		43225		43225		
	UNITS	WP-CP-05	WP-CP-06	QC Batch	WP-CP-07	QC Batch	WP-CP-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	24	21	A414692	32	A414975	36	1.0	A414692
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP251			AJP252	AJP253		AJP254		
Sampling Date		2021/10/28 15:09			2021/10/28 15:30	2021/10/28 15:33		2021/10/28 15:36		
COC Number		43225			43225	43225		43225		
	UNITS	WP-CP-09	RDL	QC Batch	WP-DP-01	WP-DP-02	QC Batch	WP-DP-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	19	0.50	A414975	17	19	A414692	7.0	1.0	A414975
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP255	AJP256	AJP257		AJP258		AJP259		
Sampling Date		2021/10/28 15:39	2021/10/28 15:42	2021/10/28 15:45		2021/10/28 15:52		2021/10/28 15:52		
COC Number		43225	43225	43225		43225		43225		
	UNITS	WP-DP-04	WP-DP-05	WP-DP-06	QC Batch	WP-DP-07	QC Batch	WP-DP-07D	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	21	20	30	A414934	21	A414975	21	0.50	A414934
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RDL = Reportable Detection Limit

Bureau Veritas ID		AJP260	AJP261	AJP262	AJP263	AJP264		
Sampling Date		2021/10/28 15:55	2021/10/28 15:58	2021/10/28 16:01	2021/10/28 16:05	2021/10/28 16:11		
COC Number		43225	43225	43225	43225	43225		
	UNITS	WP-DP-08	WP-DP-09	WP-DP-10	WP-DP-11	WP-DP-12	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	20	21	21	20	20	0.50	A414934
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RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.1°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJP214 [WP-FP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP215 [WP-FP-02D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP216 [WP-FP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP217 [WP-FP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP219 [WP-FP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP220 [WP-FP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP221 [WP-FP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP222 [WP-FP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP223 [WP-FP-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP224 [WP-FP-11] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP226 [WP-WC-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP227 [WP-WC-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP228 [WP-WC-02D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP229 [WP-WC-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP230 [WP-WC-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP231 [WP-WC-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP233 [WP-WC-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP234 [WP-WC-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP236 [WP-WC-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP237 [WP-WC-11] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP238 [WP-WC-12] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP239 [WP-WC-13] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP241 [WP-WC-14] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP242 [WP-WC-15] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP244 [WP-CP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP246 [WP-CP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP247 [WP-CP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP248 [WP-CP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP249 [WP-CP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP250 [WP-CP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP252 [WP-DP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP253 [WP-DP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJP254 [WP-DP-03] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A414692	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/05		76	%	75 - 125
A414692	LQ1	QC Standard	Total Lead (Pb)	2021/11/05		107	%	79 - 121
A414692	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/05		93	%	80 - 120
A414692	LQ1	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414692	LQ1	RPD	Total Lead (Pb)	2021/11/05	6.2		%	35
A414930	MFP	Matrix Spike [AJP213-01]	Total Lead (Pb)	2021/11/05		79	%	75 - 125
A414930	MFP	QC Standard	Total Lead (Pb)	2021/11/05		108	%	79 - 121
A414930	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		94	%	80 - 120
A414930	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414930	MFP	RPD [AJP213-01]	Total Lead (Pb)	2021/11/05	7.3		%	35
A414934	KH2	Matrix Spike	Total Lead (Pb)	2021/11/05		89	%	75 - 125
A414934	KH2	QC Standard	Total Lead (Pb)	2021/11/05		113	%	79 - 121
A414934	KH2	Spiked Blank	Total Lead (Pb)	2021/11/05		91	%	80 - 120
A414934	KH2	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414934	KH2	RPD	Total Lead (Pb)	2021/11/05	4.0		%	35
A414975	MFP	Matrix Spike [AJP226-01]	Total Lead (Pb)	2021/11/05		84	%	75 - 125
A414975	MFP	QC Standard	Total Lead (Pb)	2021/11/05		112	%	79 - 121
A414975	MFP	Spiked Blank	Total Lead (Pb)	2021/11/05		95	%	80 - 120
A414975	MFP	Method Blank	Total Lead (Pb)	2021/11/05	<0.50		mg/kg	
A414975	MFP	RPD [AJP226-01]	Total Lead (Pb)	2021/11/05	18		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C184213

Report Date: 2021/11/10

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43225

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: WP-FP-01
Last Sample: WP-DP-12
Sample Count: 51

Relinquished By				Received By			
Adam Wiebe	Adam Wiebe	Date	2021/10/29	Amarjot Brar	APue	Date	2021/10/29
		Time (24 HR)	11:00			Time (24 HR)	1440
		Date		Adam Finkleish	27	Date	2021/10/30
		Time (24 HR)				Time (24 HR)	18:00
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Immediate Test <input type="checkbox"/>
Adam Wiebe	1	Micro <input type="checkbox"/>	Food Residue <input type="checkbox"/>
			Food Chemistry <input type="checkbox"/>

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

C184213

Verified By

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.3	19.1	19.1
			ACTR		
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43225



Project Information: C184213
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-FP-01	1	2021/10/28 12:02	SOIL	1	A
WP-FP-02	2	2021/10/28 12:06	SOIL	1	A
WP-FP-02D	3	2021/10/28 12:06	SOIL	1	A
WP-FP-03	4	2021/10/28 12:09	SOIL	1	A
WP-FP-04	5	2021/10/28 12:12	SOIL	1	A
WP-FP-05	6	2021/10/28 12:15	SOIL	1	A
WP-FP-06	7	2021/10/28 12:18	SOIL	1	A
WP-FP-07	8	2021/10/28 12:20	SOIL	1	A
WP-FP-08	9	2021/10/28 12:23	SOIL	1	A
WP-FP-09	10	2021/10/28 12:26	SOIL	1	A
WP-FP-10	11	2021/10/28 12:29	SOIL	1	A
WP-FP-11	12	2021/10/28 12:32	SOIL	1	A
WP-FP-12	13	2021/10/28 12:35	SOIL	1	A
WP-WC-01	14	2021/10/28 13:17	SOIL	1	A
WP-WC-02	15	2021/10/28 13:23	SOIL	1	A
WP-WC-02D	16	2021/10/28 13:23	SOIL	1	A
WP-WC-03	17	2021/10/28 13:25	SOIL	1	A
WP-WC-04	18	2021/10/28 13:27	SOIL	1	A



eCOC: W43225



Project Information: C184213
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-WC-05	19	2021/10/28 13:29	SOIL	1	A
WP-WC-06	20	2021/10/28 13:32	SOIL	1	A
WP-WC-07	21	2021/10/28 13:34	SOIL	1	A
WP-WC-08	22	2021/10/28 13:36	SOIL	1	A
WP-WC-09	23	2021/10/28 13:39	SOIL	1	A
WP-WC-10	24	2021/10/28 13:41	SOIL	1	A
WP-WC-11	25	2021/10/28 13:43	SOIL	1	A
WP-WC-12	26	2021/10/28 13:46	SOIL	1	A
WP-WC-13	27	2021/10/28 13:49	SOIL	1	A
WP-WC-14	28	2021/10/28 13:52	SOIL	1	A
WP-WC-15	29	2021/10/28 13:55	SOIL	1	A
WP-CP-01	30	2021/10/28 14:45	SOIL	1	A
WP-CP-02	31	2021/10/28 14:47	SOIL	1	A
WP-CP-03	32	2021/10/28 14:49	SOIL	1	A
WP-CP-04	33	2021/10/28 14:52	SOIL	1	A
WP-CP-05	34	2021/10/28 14:55	SOIL	1	A
WP-CP-06	35	2021/10/28 14:58	SOIL	1	A
WP-CP-07	36	2021/10/28 15:01	SOIL	1	A
WP-CP-08	37	2021/10/28 15:04	SOIL	1	A
WP-CP-09	38	2021/10/28 15:09	SOIL	1	A
WP-DP-01	39	2021/10/28 15:30	SOIL	1	A
WP-DP-02	40	2021/10/28 15:33	SOIL	1	A
WP-DP-03	41	2021/10/28 15:36	SOIL	1	A



eCOC: W43225



Project Information: C184213
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-DP-04	42	2021/10/28 15:39	SOIL	1	A
WP-DP-05	43	2021/10/28 15:42	SOIL	1	A
WP-DP-06	44	2021/10/28 15:45	SOIL	1	A
WP-DP-07	45	2021/10/28 15:52	SOIL	1	A
WP-DP-07D	46	2021/10/28 15:52	SOIL	1	A
WP-DP-08	47	2021/10/28 15:55	SOIL	1	A
WP-DP-09	48	2021/10/28 15:58	SOIL	1	A
WP-DP-10	49	2021/10/28 16:01	SOIL	1	A
WP-DP-11	50	2021/10/28 16:05	SOIL	1	A
WP-DP-12	51	2021/10/28 16:11	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 51

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/27

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C184218

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: N/A

Is Chain of Custody completed and signed (Yes/No)?: Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: No

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43218

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/05
Report #: R3095574
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C184218

Received: 2021/10/29, 14:40

Sample Matrix: Soil
Samples Received: 65

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	46	2021/11/03	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/11/03	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	17	2021/11/04	2021/11/04	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/11/04	2021/11/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 43218

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/05
Report #: R3095574
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C184218

Received: 2021/10/29, 14:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

05 Nov 2021 15:56:32

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C184218
Report Date: 2021/11/05

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP284		AJP285	AJP286		AJP287	AJP288		
Sampling Date		2021/10/27 08:55		2021/10/27 09:01	2021/10/27 09:06		2021/10/27 09:11	2021/10/27 09:17		
COC Number		43218		43218	43218		43218	43218		
	UNITS	WP-BP-01	QC Batch	WP-BP-02	WP-BP-03	QC Batch	WP-BP-04	WP-BP-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	37	A412940	43	42	A412811	4.6	39	0.50	A412728
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJP289	AJP290			AJP291			AJP292		
Sampling Date		2021/10/27 09:23	2021/10/27 09:29			2021/10/27 09:35			2021/10/27 09:50		
COC Number		43218	43218			43218			43218		
	UNITS	WP-BP-06	WP-BP-07	RDL	QC Batch	WP-BP-08	RDL	QC Batch	WP-VM-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	13	34	0.50	A412728	34	1.0	A412940	14	0.50	A412728
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJP293	AJP294	AJP295		AJP296		AJP297		
Sampling Date		2021/10/27 09:50	2021/10/27 09:55	2021/10/27 09:59		2021/10/27 10:03		2021/10/27 10:07		
COC Number		43218	43218	43218		43218		43218		
	UNITS	WP-VM-01D	WP-VM-02	WP-VM-03	QC Batch	WP-VM-04	QC Batch	WP-VM-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	17	27	13	A412940	16	A412728	11	0.50	A412940
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJP298	AJP299		AJP300		AJP301	AJP302		
Sampling Date		2021/10/27 10:11	2021/10/27 10:15		2021/10/27 10:19		2021/10/27 10:23	2021/10/27 10:28		
COC Number		43218	43218		43218		43218	43218		
	UNITS	WP-VM-06	WP-VM-07	QC Batch	WP-VM-08	QC Batch	WP-VM-09	WP-VM-10	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	23	17	A412940	16	A412728	17	14	0.50	A412811
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJP303	AJP304	AJP305		AJP306	AJP307	AJP308		
Sampling Date		2021/10/27 10:33	2021/10/27 10:37	2021/10/27 11:00		2021/10/27 11:05	2021/10/27 11:10	2021/10/27 11:15		
COC Number		43218	43218	43218		43218	43218	43218		
	UNITS	WP-VM-11	WP-VM-12	WP-JP-01	QC Batch	WP-JP-02	WP-JP-03	WP-JP-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	24	40	12	A412811	28	23	12	0.50	A412728
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C184218

Report Date: 2021/11/05

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJR190		AJP310	AJP311	AJP312	AJP313		
Sampling Date		2021/10/27 11:20		2021/10/27 11:25	2021/10/27 11:30	2021/10/27 11:36	2021/10/27 11:41		
COC Number		43218		43218	43218	43218	43218		
	UNITS	WP-JP-05	QC Batch	WP-JP-06	WP-JP-07	WP-JP-08	WP-JP-09	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	26	A413985	13	13	18	25	0.50	A412728
RDL = Reportable Detection Limit									

Bureau Veritas ID		AJP314		AJP315		AJP316	AJP317		AJP318	AJP319		
Sampling Date		2021/10/27 11:55		2021/10/27 11:55		2021/10/27 11:58	2021/10/27 12:02		2021/10/27 12:05	2021/10/27 12:09		
COC Number		43218		43218		43218	43218		43218	43218		
	UNITS	WP-WP-01	RDL	WP-WP-01D	RDL	WP-WP-02	WP-WP-03	RDL	WP-WP-04	WP-WP-05	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	26	0.50	29	1.0	11	16	0.50	8.2	10	1.0	A413985
RDL = Reportable Detection Limit												

Bureau Veritas ID		AJP320	AJP321	AJP322	AJP323		AJP324	AJP325		
Sampling Date		2021/10/27 12:12	2021/10/27 12:15	2021/10/27 12:19	2021/10/27 12:22		2021/10/27 12:27	2021/10/27 12:31		
COC Number		43218	43218	43218	43218		43218	43218		
	UNITS	WP-WP-06	WP-WP-07	WP-WP-08	WP-WP-09	RDL	WP-WP-10	WP-WP-11	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	15	42	14	16	1.0	21	25	0.50	A413985
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJP326		AJP327		AJP328		AJP329	AJP330		
Sampling Date		2021/10/27 12:35		2021/10/27 12:40		2021/10/27 12:50		2021/10/27 12:54	2021/10/27 12:59		
COC Number		43218		43218		43218		43218	43218		
	UNITS	WP-WP-12	RDL	WP-WP-13	RDL	WP-AP-01	RDL	WP-AP-02	WP-AP-03	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	46	1.0	19	0.50	35	1.0	25	39	0.50	A413985
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJP331	AJP332	AJP333	AJP334	AJP335	AJP336	AJP337		
Sampling Date		2021/10/27 13:03	2021/10/27 13:12	2021/10/27 13:12	2021/10/27 13:16	2021/10/27 13:20	2021/10/27 13:25	2021/10/27 13:30		
COC Number		43218	43218	43218	43218	43218	43218	43218		
	UNITS	WP-AP-04	WP-AP-05	WP-AP-05D	WP-AP-06	WP-AP-07	WP-AP-08	WP-AP-09	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	22	38	35	48	23	24	31	0.50	A412940
RDL = Reportable Detection Limit										



**BUREAU
VERITAS**

Bureau Veritas Job #: C184218

Report Date: 2021/11/05

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJP338	AJP339	AJP340	AJP341	AJP342		AJP343		
Sampling Date		2021/10/27 15:34	2021/10/27 15:37	2021/10/27 15:41	2021/10/27 15:44	2021/10/27 15:48		2021/10/27 15:51		
COC Number		43218	43218	43218	43218	43218		43218		
	UNITS	WP-AG-01	WP-AG-02	WP-AG-03	WP-AG-04	WP-AG-05	QC Batch	WP-AG-06	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	43	28	32	48	29	A412940	21	0.50	A412728
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJP344	AJP345	AJP346	AJP347	AJP348		
Sampling Date		2021/10/27 15:54	2021/10/27 15:57	2021/10/27 16:01	2021/10/27 16:09	2021/10/27 16:09		
COC Number		43218	43218	43218	43218	43218		
	UNITS	WP-AG-07	WP-AG-08	WP-AG-09	WP-AG-10	WP-AG-10D	RDL	QC Batch
Elements								
Total Lead (Pb)	mg/kg	10	26	17	22	22	0.50	A412728
RDL = Reportable Detection Limit								



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.6°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJP289 [WP-BP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP290 [WP-BP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP291 [WP-BP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP292 [WP-VM-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP296 [WP-VM-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP315 [WP-WP-01D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP318 [WP-WP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP319 [WP-WP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP320 [WP-WP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP321 [WP-WP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP322 [WP-WP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP323 [WP-WP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP326 [WP-WP-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP328 [WP-AP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP343 [WP-AG-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJP344 [WP-AG-07] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C184218
Report Date: 2021/11/05

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: AW

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A412728	LQ1	Matrix Spike [AJP343-01]	Total Lead (Pb)	2021/11/04		102	%	75 - 125
A412728	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		117	%	79 - 121
A412728	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		109	%	80 - 120
A412728	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412728	LQ1	RPD [AJP343-01]	Total Lead (Pb)	2021/11/05	16		%	35
A412811	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/04		118	%	75 - 125
A412811	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		118	%	79 - 121
A412811	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		111	%	80 - 120
A412811	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412811	LQ1	RPD	Total Lead (Pb)	2021/11/04	23		%	35
A412940	LQ1	Matrix Spike [AJP332-01]	Total Lead (Pb)	2021/11/04		110	%	75 - 125
A412940	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		121	%	79 - 121
A412940	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		105	%	80 - 120
A412940	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A412940	LQ1	RPD [AJP332-01]	Total Lead (Pb)	2021/11/04	1.5		%	35
A413985	LQ1	Matrix Spike [AJP329-01]	Total Lead (Pb)	2021/11/04		94	%	75 - 125
A413985	LQ1	QC Standard	Total Lead (Pb)	2021/11/04		112	%	79 - 121
A413985	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/04		99	%	80 - 120
A413985	LQ1	Method Blank	Total Lead (Pb)	2021/11/04	<0.50		mg/kg	
A413985	LQ1	RPD [AJP329-01]	Total Lead (Pb)	2021/11/04	1.3		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C184218

Report Date: 2021/11/05

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: AW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'Sze', written over a horizontal line.

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43218

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: WP-BP-01
Last Sample: WP-AG-10D
Sample Count: 65

Relinquished By				Received By			
Adam Wiebe	<i>Adam Wiebe</i>	Date	2021/10/29	Amanjit Bawa	<i>Amanjit Bawa</i>	Date	2021/10/29
		Time (24 HR)	11:00			Time (24 HR)	1440
		Date		Ademf'shleg	<i>Ademf'shleg</i>	Date	2021/10/30
		Time (24 HR)				Time (24 HR)	10:00
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Food Residue <input type="checkbox"/>
Adam Wiebe	1	Micro <input type="checkbox"/>	Food Chemistry <input type="checkbox"/>
		Immediate Test <input type="checkbox"/>	

*** LABORATORY USE ONLY ***

Received At _____ Lab Comments:

Labeled By _____

Verified By _____

C184218

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.7	19.1	20.1
			ACTR		
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43218



Project Information: C184218
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-BP-01	1	2021/10/27 08:55	SOIL	1	A
WP-BP-02	2	2021/10/27 09:01	SOIL	1	A
WP-BP-03	3	2021/10/27 09:06	SOIL	1	A
WP-BP-04	4	2021/10/27 09:11	SOIL	1	A
WP-BP-05	5	2021/10/27 09:17	SOIL	1	A
WP-BP-06	6	2021/10/27 09:23	SOIL	1	A
WP-BP-07	7	2021/10/27 09:29	SOIL	1	A
WP-BP-08	8	2021/10/27 09:35	SOIL	1	A
WP-VM-01	9	2021/10/27 09:50	SOIL	1	A
WP-VM-01D	10	2021/10/27 09:50	SOIL	1	A
WP-VM-02	11	2021/10/27 09:55	SOIL	1	A
WP-VM-03	12	2021/10/27 09:59	SOIL	1	A
WP-VM-04	13	2021/10/27 10:03	SOIL	1	A
WP-VM-05	14	2021/10/27 10:07	SOIL	1	A
WP-VM-06	15	2021/10/27 10:11	SOIL	1	A
WP-VM-07	16	2021/10/27 10:15	SOIL	1	A
WP-VM-08	17	2021/10/27 10:19	SOIL	1	A
WP-VM-09	18	2021/10/27 10:23	SOIL	1	A



eCOC: W43218



Project Information: C184218
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-VM-10	19	2021/10/27 10:28	SOIL	1	A
WP-VM-11	20	2021/10/27 10:33	SOIL	1	A
WP-VM-12	21	2021/10/27 10:37	SOIL	1	A
WP-JP-01	22	2021/10/27 11:00	SOIL	1	A
WP-JP-02	23	2021/10/27 11:05	SOIL	1	A
WP-JP-03	24	2021/10/27 11:10	SOIL	1	A
WP-JP-04	25	2021/10/27 11:15	SOIL	1	A
WP-JP-05	26	2021/10/27 11:20	SOIL	1	A
WP-JP-06	27	2021/10/27 11:25	SOIL	1	A
WP-JP-07	28	2021/10/27 11:30	SOIL	1	A
WP-JP-08	29	2021/10/27 11:36	SOIL	1	A
WP-JP-09	30	2021/10/27 11:41	SOIL	1	A
WP-WP-01	31	2021/10/27 11:55	SOIL	1	A
WP-WP-01D	32	2021/10/27 11:55	SOIL	1	A
WP-WP-02	33	2021/10/27 11:58	SOIL	1	A
WP-WP-03	34	2021/10/27 12:02	SOIL	1	A
WP-WP-04	35	2021/10/27 12:05	SOIL	1	A
WP-WP-05	36	2021/10/27 12:09	SOIL	1	A
WP-WP-06	37	2021/10/27 12:12	SOIL	1	A
WP-WP-07	38	2021/10/27 12:15	SOIL	1	A
WP-WP-08	39	2021/10/27 12:19	SOIL	1	A
WP-WP-09	40	2021/10/27 12:22	SOIL	1	A
WP-WP-10	41	2021/10/27 12:27	SOIL	1	A



eCOC: W43218



Project Information: C184218
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-WP-11	42	2021/10/27 12:31	SOIL	1	A
WP-WP-12	43	2021/10/27 12:35	SOIL	1	A
WP-WP-13	44	2021/10/27 12:40	SOIL	1	A
WP-AP-01	45	2021/10/27 12:50	SOIL	1	A
WP-AP-02	46	2021/10/27 12:54	SOIL	1	A
WP-AP-03	47	2021/10/27 12:59	SOIL	1	A
WP-AP-04	48	2021/10/27 13:03	SOIL	1	A
WP-AP-05	49	2021/10/27 13:12	SOIL	1	A
WP-AP-05D	50	2021/10/27 13:12	SOIL	1	A
WP-AP-06	51	2021/10/27 13:16	SOIL	1	A
WP-AP-07	52	2021/10/27 13:20	SOIL	1	A
WP-AP-08	53	2021/10/27 13:25	SOIL	1	A
WP-AP-09	54	2021/10/27 13:30	SOIL	1	A
WP-AG-01	55	2021/10/27 15:34	SOIL	1	A
WP-AG-02	56	2021/10/27 15:37	SOIL	1	A
WP-AG-03	57	2021/10/27 15:41	SOIL	1	A
WP-AG-04	58	2021/10/27 15:44	SOIL	1	A
WP-AG-05	59	2021/10/27 15:48	SOIL	1	A
WP-AG-06	60	2021/10/27 15:51	SOIL	1	A
WP-AG-07	61	2021/10/27 15:54	SOIL	1	A
WP-AG-08	62	2021/10/27 15:57	SOIL	1	A
WP-AG-09	63	2021/10/27 16:01	SOIL	1	A
WP-AG-10	64	2021/10/27 16:09	SOIL	1	A



eCOC: W43218



Project Information: C184218
Job Received: 2021/10/29 14:40
Results Required By: 2021/11/05 15:00
Expected Arrival: 2021/10/29 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/05 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-AG-10D	65	2021/10/27 16:09	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 65

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/10/29

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C185266

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	The matrix duplicate RPD for Total Lead (45%) is above the acceptance criteria. All other laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD		X		
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43397

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/17
Report #: R3100372
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C185266

Received: 2021/11/03, 15:15

Sample Matrix: Soil
Samples Received: 78

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	40	2021/11/07	2021/11/08	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	20	2021/11/13	2021/11/14	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	18	2021/11/13	2021/11/15	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 43397

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/17
Report #: R3100372
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C185266

Received: 2021/11/03, 15:15

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

17 Nov 2021 12:45:37

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C185266
Report Date: 2021/11/17

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJW971	AJW972	AJW973	AJW974	AJW975		AJW976		
Sampling Date		2021/10/29 09:30	2021/10/29 09:35	2021/10/29 09:40	2021/10/29 09:43	2021/10/29 09:46		2021/10/29 09:49		
COC Number		43397	43397	43397	43397	43397		43397		
	UNITS	BI-MS-01	BI-MS-02	BI-MS-03	BI-MS-04	BI-MS-05	QC Batch	BI-MS-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	28	10	11	28	44	A424667	57	1.0	A424434
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJW977	AJW978	AJW979	AJW980		AJW981	AJW982		
Sampling Date		2021/10/29 09:52	2021/10/29 09:55	2021/10/29 09:58	2021/10/29 10:02		2021/10/29 10:05	2021/10/29 10:05		
COC Number		43397	43397	43397	43397		43397	43397		
	UNITS	BI-MS-07	BI-MS-08	BI-MS-09	BI-MS-10	QC Batch	BI-MS-11	BI-MS-11D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	50	27 (1)	82	64	A424667	190	210	1.0	A424434
RDL = Reportable Detection Limit										
(1) Detection limits raised based on sample weight used for analysis.										

Bureau Veritas ID		AJW983		AJW984	AJW985		AJW986		
Sampling Date		2021/10/29 10:10		2021/10/29 10:26	2021/10/29 10:30		2021/10/29 10:30		
COC Number		43397		43397	43397		43397		
	UNITS	BI-MS-12	QC Batch	BI-CS-01	BI-CS-02	QC Batch	BI-CS-02D	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	79	A424667	11	12	A424434	8.9	1.0	A424667
RDL = Reportable Detection Limit									

Bureau Veritas ID		AJW987			AJW988	AJW989		AJW990	AJW991		
Sampling Date		2021/10/29 10:33			2021/10/29 10:35	2021/10/29 10:38		2021/10/29 10:40	2021/10/29 10:42		
COC Number		43397			43397	43397		43397	43397		
	UNITS	BI-CS-03	RDL	QC Batch	BI-CS-04	BI-CS-05	QC Batch	BI-CS-06	BI-CS-07	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	9.7	0.50	A417639	10	11	A424667	10	9.6	1.0	A417639
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJW992	AJW993		AJW994			AJW995	AJW996		
Sampling Date		2021/10/29 10:45	2021/10/29 10:48		2021/10/29 10:50			2021/10/29 10:55	2021/10/29 13:10		
COC Number		43397	43397		43397			43397	43397		
	UNITS	BI-CS-08	BI-CS-09	RDL	BI-CS-10	RDL	QC Batch	BI-CS-11	BI-SP-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	12	9.2	1.0	11	0.50	A417639	11	12	1.0	A424434
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C185266
Report Date: 2021/11/17

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJW997		AJW998		AJW999		AJX000		
Sampling Date		2021/10/29 13:03		2021/10/29 13:06		2021/10/29 13:04		2021/10/29 13:12		
COC Number		43397		43397		43397		43397		
	UNITS	BI-SP-02	QC Batch	BI-SP-03	QC Batch	BI-SP-04	QC Batch	BI-SP-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	10	A417639	13	A424434	9.4	A417636	8.9	1.0	A424434
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJX001	AJX002		AJX003	AJX004		AJX005		
Sampling Date		2021/10/29 13:17	2021/10/29 13:22		2021/10/29 13:23	2021/10/29 13:33		2021/10/29 15:50		
COC Number		43397	43397		43397	43397		43397		
	UNITS	BI-SP-06	BI-SP-07	QC Batch	BI-SP-08	BI-SP-09	QC Batch	BI-MP-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	10	8.1	A417636	7.6	11	A417639	17	1.0	A424434
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJX006		AJX007		AJX008	AJX009	AJX010		
Sampling Date		2021/10/29 15:58		2021/10/29 16:07		2021/10/29 16:15	2021/10/29 16:20	2021/10/29 14:00		
COC Number		43397		43397		43397	43397	43397		
	UNITS	BI-MP-03	RDL	BI-MP-06	RDL	BI-MP-08	BI-MP-09	NE-EP-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	13	1.0	14	0.50	16	16	54	1.0	A417639
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJX011	AJX012	AJX013	AJX014		AJX015			
Sampling Date		2021/10/29 14:00	2021/10/29 14:04	2021/10/29 14:08	2021/10/29 14:12		2021/10/29 14:18			
COC Number		43397	43397	43397	43397		43397			
	UNITS	NE-EP-01D	NE-EP-02	NE-EP-03	NE-EP-04	QC Batch	NE-EP-05	RDL	QC Batch	

Elements										
Total Lead (Pb)	mg/kg	55	53	16	15	A417636	10	1.0	A417639	
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJX016	AJX017	AJX018		AJX019		AJX020		
Sampling Date		2021/10/29 14:20	2021/10/29 14:24	2021/10/29 14:30		2021/10/29 14:36		2021/10/29 14:40		
COC Number		43397	43397	43397		43397		43397		
	UNITS	NE-EP-06	NE-EP-07	NE-EP-08	QC Batch	NE-EP-09	QC Batch	NE-EP-10	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	8.0	7.7	8.4	A417636	8.8	A417639	8.9	1.0	A417636
RDL = Reportable Detection Limit										

BUREAU
VERITAS

Bureau Veritas Job #: C185266

Report Date: 2021/11/17

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJX021	AJX022	AJX023	AJX024	AJX025	AJX026		
Sampling Date		2021/10/29 11:12	2021/10/29 11:15	2021/10/29 11:18	2021/10/29 11:22	2021/10/29 11:25	2021/10/29 11:30		
COC Number		43397	43397	43397	43397	43397	43397		
	UNITS	WP-EL-01	WP-EL-02	WP-EL-03	WP-EL-04	WP-EL-05	WP-EL-06	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	8.4	7.8	9.9	9.8	8.9	10	1.0	A417636
RDL = Reportable Detection Limit									

Bureau Veritas ID		AJX027			AJX028			AJX029	AJX030	AJX031		
Sampling Date		2021/10/29 11:48			2021/10/29 11:52			2021/10/29 11:55	2021/10/29 11:59	2021/10/29 12:03		
COC Number		43397			43397			43397	43397	43397		
	UNITS	WP-LP-01	RDL	QC Batch	WP-LP-02	RDL	QC Batch	WP-LP-03	WP-LP-04	WP-LP-05	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	35	1.0	A417639	14	0.50	A417636	53	25 (1)	43	1.0	A417639
RDL = Reportable Detection Limit												
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity.												

Bureau Veritas ID		AJX032	AJX033		AJX034	AJX035	AJX036	AJX037		
Sampling Date		2021/10/29 12:08	2021/10/29 12:12		2021/10/29 12:17	2021/10/29 12:23	2021/10/29 12:28	2021/10/29 12:32		
COC Number		43397	43397		43397	43397	43397	43397		
	UNITS	WP-LP-06	WP-LP-07	QC Batch	WP-LP-08	WP-LP-09	WP-LP-10	WP-LP-11	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	28	31	A417636	6.0	5.8	29	25	1.0	A424434
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJX038		AJX039		AJX040		AJX041	AJX042		
Sampling Date		2021/10/29 12:32		2021/10/29 14:52		2021/10/29 14:55		2021/10/29 14:58	2021/10/29 15:03		
COC Number		43397		43397		43397		43397	43397		
	UNITS	WP-LP-11D	QC Batch	WP-VS-01	QC Batch	WP-VS-02	QC Batch	WP-VS-03	WP-VS-04	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	19	A424434	40	A424667	47	A424434	49	26	1.0	A424667
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJX043		AJX044		AJX045		AJX046		
Sampling Date		2021/10/29 15:06		2021/10/29 15:09		2021/10/29 15:12		2021/10/29 15:15		
COC Number		43397		43397		43397		43397		
	UNITS	WP-VS-05	QC Batch	WP-VS-06	QC Batch	WP-VS-07	QC Batch	WP-VS-08	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	28	A424667	28	A424434	19	A424667	30	1.0	A424434
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C185266

Report Date: 2021/11/17

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJX047	AJX048		
Sampling Date		2021/10/29 15:20	2021/10/29 15:20		
COC Number		43397	43397		
	UNITS	WP-VS-09	WP-VS-09D	RDL	QC Batch
Elements					
Total Lead (Pb)	mg/kg	28	27	1.0	A424667
RDL = Reportable Detection Limit					

**GENERAL COMMENTS**

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.3°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJW971 [BI-MS-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW972 [BI-MS-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW973 [BI-MS-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW974 [BI-MS-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW975 [BI-MS-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW976 [BI-MS-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW977 [BI-MS-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW979 [BI-MS-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW980 [BI-MS-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW981 [BI-MS-11] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW982 [BI-MS-11D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW983 [BI-MS-12] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW984 [BI-CS-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW985 [BI-CS-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW986 [BI-CS-02D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW988 [BI-CS-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW989 [BI-CS-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW990 [BI-CS-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW991 [BI-CS-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW992 [BI-CS-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW993 [BI-CS-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW995 [BI-CS-11] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW996 [BI-SP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW997 [BI-SP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW998 [BI-SP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJW999 [BI-SP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX000 [BI-SP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX001 [BI-SP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX002 [BI-SP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX003 [BI-SP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX004 [BI-SP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX005 [BI-MP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX006 [BI-MP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX008 [BI-MP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX009 [BI-MP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX010 [NE-EP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX011 [NE-EP-01D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX012 [NE-EP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX013 [NE-EP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX014 [NE-EP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX015 [NE-EP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX016 [NE-EP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX017 [NE-EP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX018 [NE-EP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX019 [NE-EP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX020 [NE-EP-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX021 [WP-EL-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX022 [WP-EL-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX023 [WP-EL-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AJX024 [WP-EL-04] Lead: Detection limits raised based on sample weight used for analysis.



Sample AJX025 [WP-EL-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX026 [WP-EL-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX027 [WP-LP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX029 [WP-LP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX030 [WP-LP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX031 [WP-LP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX032 [WP-LP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX033 [WP-LP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX034 [WP-LP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX035 [WP-LP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX036 [WP-LP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX037 [WP-LP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX038 [WP-LP-11D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX039 [WP-VS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX040 [WP-VS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX041 [WP-VS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX042 [WP-VS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX043 [WP-VS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX044 [WP-VS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX045 [WP-VS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX046 [WP-VS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX047 [WP-VS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJX048 [WP-VS-09D] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C185266

Report Date: 2021/11/17

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A417636	MFP	Matrix Spike [AJX033-01]	Total Lead (Pb)	2021/11/08		78	%	75 - 125
A417636	MFP	QC Standard	Total Lead (Pb)	2021/11/08		107	%	79 - 121
A417636	MFP	Spiked Blank	Total Lead (Pb)	2021/11/08		91	%	80 - 120
A417636	MFP	Method Blank	Total Lead (Pb)	2021/11/08	<0.50		mg/kg	
A417636	MFP	RPD [AJX033-01]	Total Lead (Pb)	2021/11/08	5.6		%	35
A417639	MFP	Matrix Spike [AJX030-01]	Total Lead (Pb)	2021/11/08		80	%	75 - 125
A417639	MFP	QC Standard	Total Lead (Pb)	2021/11/08		112	%	79 - 121
A417639	MFP	Spiked Blank	Total Lead (Pb)	2021/11/08		91	%	80 - 120
A417639	MFP	Method Blank	Total Lead (Pb)	2021/11/08	<0.50		mg/kg	
A417639	MFP	RPD [AJX030-01]	Total Lead (Pb)	2021/11/08	45 (1)		%	35
A424434	MFP	Matrix Spike [AJX034-01]	Total Lead (Pb)	2021/11/15		95	%	75 - 125
A424434	MFP	QC Standard	Total Lead (Pb)	2021/11/15		110	%	79 - 121
A424434	MFP	Spiked Blank	Total Lead (Pb)	2021/11/15		96	%	80 - 120
A424434	MFP	Method Blank	Total Lead (Pb)	2021/11/15	<0.50		mg/kg	
A424434	MFP	RPD [AJX034-01]	Total Lead (Pb)	2021/11/15	11		%	35
A424667	KH2	Matrix Spike [AJW978-01]	Total Lead (Pb)	2021/11/14		99	%	75 - 125
A424667	KH2	QC Standard	Total Lead (Pb)	2021/11/14		111	%	79 - 121
A424667	KH2	Spiked Blank	Total Lead (Pb)	2021/11/14		101	%	80 - 120
A424667	KH2	Method Blank	Total Lead (Pb)	2021/11/14	<0.50		mg/kg	
A424667	KH2	RPD [AJW978-01]	Total Lead (Pb)	2021/11/14	8.4		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C185266

Report Date: 2021/11/17

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'M. Busslinger'.

Marjolen Busslinger, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



200
Custody Tracking Form



W43397

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: BI-MS-01
Last Sample: WP-VS-09D
Sample Count: 78

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/03	Amarjit Bawa		Date	2021/11/03
		Time (24 HR)	12:00			Time (24 HR)	15:15
		Date		Reem Phillipos	Pur	Date	2021/11/04
		Time (24 HR)				Time (24 HR)	08:40
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Immediate Test <input type="checkbox"/>
Bryan Girouard	1	Food Residue <input type="checkbox"/>	
		Micro <input type="checkbox"/>	Food Chemistry <input type="checkbox"/>

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C185266

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	17.3	17.3	17.3
Y	Y	N	16	17	17
Y	Y	N	15	15	14
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43397



Project Information: C185266
Job Received: 2021/11/03 15:15
Results Required By: 2021/11/10 15:00
Expected Arrival: 2021/11/03 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

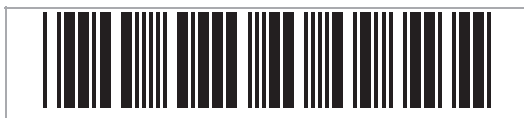
Analytical Summary

A: 2021/11/10 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
BI-MS-01	1	2021/10/29 09:30	SOIL	1	A
BI-MS-02	2	2021/10/29 09:35	SOIL	1	A
BI-MS-03	3	2021/10/29 09:40	SOIL	1	A
BI-MS-04	4	2021/10/29 09:43	SOIL	1	A
BI-MS-05	5	2021/10/29 09:46	SOIL	1	A
BI-MS-06	6	2021/10/29 09:49	SOIL	1	A
BI-MS-07	7	2021/10/29 09:52	SOIL	1	A
BI-MS-08	8	2021/10/29 09:55	SOIL	1	A
BI-MS-09	9	2021/10/29 09:58	SOIL	1	A
BI-MS-10	10	2021/10/29 10:02	SOIL	1	A
BI-MS-11	11	2021/10/29 10:05	SOIL	1	A
BI-MS-11D	12	2021/10/29 10:05	SOIL	1	A
BI-MS-12	13	2021/10/29 10:10	SOIL	1	A
BI-CS-01	14	2021/10/29 10:26	SOIL	1	A
BI-CS-02	15	2021/10/29 10:30	SOIL	1	A
BI-CS-02D	16	2021/10/29 10:30	SOIL	1	A
BI-CS-03	17	2021/10/29 10:33	SOIL	1	A
BI-CS-04	18	2021/10/29 10:35	SOIL	1	A



eCOC: W43397



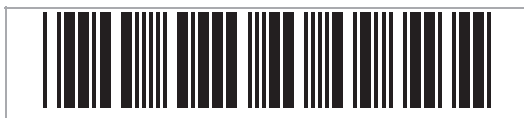
Project Information: C185266
Job Received: 2021/11/03 15:15
Results Required By: 2021/11/10 15:00
Expected Arrival: 2021/11/03 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/10 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
BI-CS-05	19	2021/10/29 10:38	SOIL	1	A
BI-CS-06	20	2021/10/29 10:40	SOIL	1	A
BI-CS-07	21	2021/10/29 10:42	SOIL	1	A
BI-CS-08	22	2021/10/29 10:45	SOIL	1	A
BI-CS-09	23	2021/10/29 10:48	SOIL	1	A
BI-CS-10	24	2021/10/29 10:50	SOIL	1	A
BI-CS-11	25	2021/10/29 10:55	SOIL	1	A
BI-SP-01	26	2021/10/29 13:10	SOIL	1	A
BI-SP-02	27	2021/10/29 13:03	SOIL	1	A
BI-SP-03	28	2021/10/29 13:06	SOIL	1	A
BI-SP-04	29	2021/10/29 13:04	SOIL	1	A
BI-SP-05	30	2021/10/29 13:12	SOIL	1	A
BI-SP-06	31	2021/10/29 13:17	SOIL	1	A
BI-SP-07	32	2021/10/29 13:22	SOIL	1	A
BI-SP-08	33	2021/10/29 13:23	SOIL	1	A
BI-SP-09	34	2021/10/29 13:33	SOIL	1	A
BI-MP-01	35	2021/10/29 15:50	SOIL	1	A
BI-MP-03	36	2021/10/29 15:58	SOIL	1	A
BI-MP-06	37	2021/10/29 16:07	SOIL	1	A
BI-MP-08	38	2021/10/29 16:15	SOIL	1	A
BI-MP-09	39	2021/10/29 16:20	SOIL	1	A
NE-EP-01	40	2021/10/29 14:00	SOIL	1	A
NE-EP-01D	41	2021/10/29 14:00	SOIL	1	A



eCOC: W43397



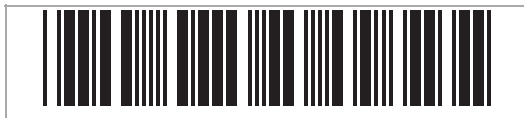
Project Information: C185266
Job Received: 2021/11/03 15:15
Results Required By: 2021/11/10 15:00
Expected Arrival: 2021/11/03 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/10 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
NE-EP-02	42	2021/10/29 14:04	SOIL	1	A
NE-EP-03	43	2021/10/29 14:08	SOIL	1	A
NE-EP-04	44	2021/10/29 14:12	SOIL	1	A
NE-EP-05	45	2021/10/29 14:18	SOIL	1	A
NE-EP-06	46	2021/10/29 14:20	SOIL	1	A
NE-EP-07	47	2021/10/29 14:24	SOIL	1	A
NE-EP-08	48	2021/10/29 14:30	SOIL	1	A
NE-EP-09	49	2021/10/29 14:36	SOIL	1	A
NE-EP-10	50	2021/10/29 14:40	SOIL	1	A
WP-EL-01	51	2021/10/29 11:12	SOIL	1	A
WP-EL-02	52	2021/10/29 11:15	SOIL	1	A
WP-EL-03	53	2021/10/29 11:18	SOIL	1	A
WP-EL-04	54	2021/10/29 11:22	SOIL	1	A
WP-EL-05	55	2021/10/29 11:25	SOIL	1	A
WP-EL-06	56	2021/10/29 11:30	SOIL	1	A
WP-LP-01	57	2021/10/29 11:48	SOIL	1	A
WP-LP-02	58	2021/10/29 11:52	SOIL	1	A
WP-LP-03	59	2021/10/29 11:55	SOIL	1	A
WP-LP-04	60	2021/10/29 11:59	SOIL	1	A
WP-LP-05	61	2021/10/29 12:03	SOIL	1	A
WP-LP-06	62	2021/10/29 12:08	SOIL	1	A
WP-LP-07	63	2021/10/29 12:12	SOIL	1	A
WP-LP-08	64	2021/10/29 12:17	SOIL	1	A



eCOC: W43397



Project Information: C185266
Job Received: 2021/11/03 15:15
Results Required By: 2021/11/10 15:00
Expected Arrival: 2021/11/03 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/10 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WP-LP-09	65	2021/10/29 12:23	SOIL	1	A
WP-LP-10	66	2021/10/29 12:28	SOIL	1	A
WP-LP-11	67	2021/10/29 12:32	SOIL	1	A
WP-LP-11D	68	2021/10/29 12:32	SOIL	1	A
WP-VS-01	69	2021/10/29 14:52	SOIL	1	A
WP-VS-02	70	2021/10/29 14:55	SOIL	1	A
WP-VS-03	71	2021/10/29 14:58	SOIL	1	A
WP-VS-04	72	2021/10/29 15:03	SOIL	1	A
WP-VS-05	73	2021/10/29 15:06	SOIL	1	A
WP-VS-06	74	2021/10/29 15:09	SOIL	1	A
WP-VS-07	75	2021/10/29 15:12	SOIL	1	A
WP-VS-08	76	2021/10/29 15:15	SOIL	1	A
WP-VS-09	77	2021/10/29 15:20	SOIL	1	A
WP-VS-09D	78	2021/10/29 15:20	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 78

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/01

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C185620

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2021/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43434

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101967
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C185620

Received: 2021/11/04, 15:59

Sample Matrix: Soil
Samples Received: 74

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead (1)	4	2021/11/14	2021/11/15	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	12	2021/11/15	2021/11/15	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	26	2021/11/15	2021/11/16	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	30	2021/11/15	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/11/15	2021/11/19	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/11/17	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43434

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101967
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C185620

Received: 2021/11/04, 15:59

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

19 Nov 2021 19:05:47

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C185620
Report Date: 2021/11/19

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJY939		AJY940		AJY941	AJY942	AJY943		
Sampling Date		2021/11/01 09:39		2021/11/01 09:39		2021/11/01 09:43	2021/11/01 09:46	2021/11/01 09:49		
COC Number		43434		43434		43434	43434	43434		
	UNITS	ND-JS-01	QC Batch	ND-JS-01D	QC Batch	ND-JS-02	ND-JS-03	ND-JS-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	23	A426113	24	A429471	22	20	16	1.0	A425205

RDL = Reportable Detection Limit

Bureau Veritas ID		AJY944		AJY945		AJY946		AJY947	AJY948		
Sampling Date		2021/11/01 09:52		2021/11/01 09:55		2021/11/01 09:58		2021/11/01 10:01	2021/11/01 10:04		
COC Number		43434		43434		43434		43434	43434		
	UNITS	ND-JS-05	QC Batch	ND-JS-06	QC Batch	ND-JS-07	QC Batch	ND-JS-08	ND-JS-09	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	22	A425706	41	A426113	30	A425706	14	12	1.0	A426113

RDL = Reportable Detection Limit

Bureau Veritas ID		AJY949		AJY950	AJY951	AJY952		AJY953		
Sampling Date		2021/11/01 10:07		2021/11/01 10:14	2021/11/01 10:17	2021/11/01 10:20		2021/11/01 10:23		
COC Number		43434		43434	43434	43434		43434		
	UNITS	ND-JS-10	QC Batch	ND-JS-11	ND-JS-12	ND-JS-13	QC Batch	ND-JS-14	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	11	A426113	13	7.4	14	A425706	15	1.0	A426119

RDL = Reportable Detection Limit

Bureau Veritas ID		AJY954		AJY955		AJY956	AJY957	AJY958		
Sampling Date		2021/11/01 10:26		2021/11/01 10:29		2021/11/01 10:40	2021/11/01 10:44	2021/11/01 10:48		
COC Number		43434		43434		43434	43434	43434		
	UNITS	ND-JS-15	QC Batch	ND-JS-16	QC Batch	ND-MJ-01	ND-MJ-02	ND-MJ-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	56	A425205	16	A426119	11	19	14	1.0	A425706

RDL = Reportable Detection Limit

Bureau Veritas ID		AJY959	AJY960		AJY961	AJY962	AJY963		
Sampling Date		2021/11/01 10:52	2021/11/01 10:57		2021/11/01 11:01	2021/11/01 11:05	2021/11/01 11:09		
COC Number		43434	43434		43434	43434	43434		
	UNITS	ND-MJ-04	ND-MJ-05	QC Batch	ND-MJ-06	ND-MJ-07	ND-MJ-08	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	16	15	A426119	15	290	11	1.0	A425706

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C185620

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJY964		AJY965		AJY966		AJY967		
Sampling Date		2021/11/01 11:13		2021/11/01 11:17		2021/11/01 11:23		2021/11/01 11:28		
COC Number		43434		43434		43434		43434		
	UNITS	ND-MJ-09	QC Batch	ND-MJ-10	QC Batch	ND-MJ-11	RDL	ND-MJ-12	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	220	A426102	55	A426113	41	1.0	910	5.0	A426119
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJY968	AJY969		AJY970	AJY971		AJY972		
Sampling Date		2021/11/01 11:35	2021/11/01 11:45		2021/11/01 11:49	2021/11/01 11:54		2021/11/01 11:58		
COC Number		43434	43434		43434	43434		43434		
	UNITS	ND-MJ-13	ND-AA-01	QC Batch	ND-AA-02	ND-AA-03	QC Batch	ND-AA-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	9.8	18	A426113	200	120	A426121	210	1.0	A426113
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJY973		AJY974		AJY975	AJY976		AJY977		
Sampling Date		2021/11/01 12:07		2021/11/01 12:07		2021/11/01 12:11	2021/11/01 12:16		2021/11/01 12:20		
COC Number		43434		43434		43434	43434		43434		
	UNITS	ND-AA-05	QC Batch	ND-AA-05D	QC Batch	ND-AA-06	ND-AA-07	QC Batch	ND-AA-08	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	89	A426119	120	A426113	94	130	A426121	190	1.0	A426119
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJY978		AJY979		AJY980		AJY981	AJY982		
Sampling Date		2021/11/01 12:30		2021/11/01 12:35		2021/11/01 12:40		2021/11/01 13:05	2021/11/01 13:07		
COC Number		43434		43434		43434		43434	43434		
	UNITS	ND-AA-09	QC Batch	ND-AA-10	QC Batch	ND-AA-11	QC Batch	ND-NS-01	ND-NS-02	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	75	A426102	23	A426111	72	A426121	26	71	1.0	A426111
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJY983	AJY984		AJY985		AJY986	AJY987		
Sampling Date		2021/11/01 13:09	2021/11/01 13:11		2021/11/01 13:16		2021/11/01 13:16	2021/11/01 13:18		
COC Number		43434	43434		43434		43434	43434		
	UNITS	ND-NS-03	ND-NS-04	QC Batch	ND-NS-05	QC Batch	ND-NS-05D	ND-NS-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	93	42	A426102	17	A426121	29	10	1.0	A426111
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C185620
Report Date: 2021/11/19

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJY988	AJY989		AJY990	AJY991	AJY992	AJY993		
Sampling Date		2021/11/01 13:20	2021/11/01 13:23		2021/11/01 13:27	2021/11/01 13:30	2021/11/01 13:38	2021/11/01 13:12		
COC Number		43434	43434		43434	43434	43434	43434		
	UNITS	ND-NS-07	ND-NS-08	QC Batch	ND-NS-09	ND-NS-10	ND-JZ-01	ND-JZ-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	100	92	A426102	51	46	45	33	1.0	A426121
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJY994		AJY995	AJY996		AJY997		AJY998		
Sampling Date		2021/11/01 13:47		2021/11/01 13:51	2021/11/01 13:56		2021/11/01 14:01		2021/11/01 14:05		
COC Number		43434		43434	43434		43434		43434		
	UNITS	ND-JZ-03	QC Batch	ND-JZ-04	ND-JZ-05	QC Batch	ND-JZ-06	QC Batch	ND-JZ-07	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	26	A426102	21	28	A426121	57	A426119	19	1.0	A426111
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJY999		AJZ000	AJZ001		AJZ002	AJZ003		
Sampling Date		2021/11/01 14:20		2021/11/01 14:23	2021/11/01 14:25		2021/11/01 14:30	2021/11/01 14:44		
COC Number		43434		43434	43434		43434	43434		
	UNITS	ND-SL-01	QC Batch	ND-SL-02	ND-SL-03	QC Batch	ND-SL-04	ND-SL-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	120	A426119	51	20	A426121	13	23	1.0	A426102
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJZ004		AJZ005		AJZ006	AJZ007		AJZ008		
Sampling Date		2021/11/01 14:32		2021/11/01 14:35		2021/11/01 14:35	2021/11/01 14:42		2021/11/01 14:58		
COC Number		43434		43434		43434	43434		43434		
	UNITS	ND-SL-06	QC Batch	ND-SL-07	QC Batch	ND-SL-07D	ND-SL-08	QC Batch	ND-PD-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	12	A426113	15	A426102	15	46	A426119	20	1.0	A426102
RDL = Reportable Detection Limit											

Bureau Veritas ID		AJZ009		AJZ010		AJZ011		AJZ012		
Sampling Date		2021/11/01 15:02		2021/11/01 15:07		2021/11/01 15:10		2021/11/01 15:15		
COC Number		43434		43434		43434		43434		
	UNITS	ND-PD-02	QC Batch	ND-PD-03	QC Batch	ND-PD-04	QC Batch	ND-PD-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	15	A426102	73	A426119	20	A425706	31	1.0	A426113
RDL = Reportable Detection Limit										



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	20.2°C
-----------	--------

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJY939 [ND-JS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY940 [ND-JS-01D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY941 [ND-JS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY942 [ND-JS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY943 [ND-JS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY944 [ND-JS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY945 [ND-JS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY946 [ND-JS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY947 [ND-JS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY948 [ND-JS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY949 [ND-JS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY950 [ND-JS-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY951 [ND-JS-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY952 [ND-JS-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY953 [ND-JS-14] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY954 [ND-JS-15] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY955 [ND-JS-16] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY956 [ND-MJ-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY957 [ND-MJ-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY958 [ND-MJ-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY959 [ND-MJ-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY960 [ND-MJ-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY961 [ND-MJ-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY962 [ND-MJ-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY963 [ND-MJ-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY964 [ND-MJ-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY965 [ND-MJ-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY966 [ND-MJ-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY967 [ND-MJ-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY968 [ND-MJ-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY969 [ND-AA-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY970 [ND-AA-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY971 [ND-AA-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY972 [ND-AA-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY973 [ND-AA-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY974 [ND-AA-05D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY975 [ND-AA-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY976 [ND-AA-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY977 [ND-AA-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY978 [ND-AA-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY979 [ND-AA-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY980 [ND-AA-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY981 [ND-NS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY982 [ND-NS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY983 [ND-NS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY984 [ND-NS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY985 [ND-NS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY986 [ND-NS-05D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY987 [ND-NS-06] Lead: Detection limits raised based on sample weight used for analysis.



BUREAU
VERITAS

Bureau Veritas Job #: C185620
Report Date: 2021/11/19

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: BG

Sample AJY988 [ND-NS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY989 [ND-NS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY990 [ND-NS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY991 [ND-NS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY992 [ND-JZ-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY993 [ND-JZ-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY994 [ND-JZ-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY995 [ND-JZ-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY996 [ND-JZ-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY997 [ND-JZ-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY998 [ND-JZ-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJY999 [ND-SL-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ000 [ND-SL-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ001 [ND-SL-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ002 [ND-SL-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ003 [ND-SL-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ004 [ND-SL-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ005 [ND-SL-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ006 [ND-SL-07D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ007 [ND-SL-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ008 [ND-PD-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ009 [ND-PD-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ010 [ND-PD-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ011 [ND-PD-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ012 [ND-PD-05] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C185620

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A425205	MFP	Matrix Spike	Total Lead (Pb)	2021/11/15		87	%	75 - 125
A425205	MFP	QC Standard	Total Lead (Pb)	2021/11/15		110	%	79 - 121
A425205	MFP	Spiked Blank	Total Lead (Pb)	2021/11/15		98	%	80 - 120
A425205	MFP	Method Blank	Total Lead (Pb)	2021/11/15	<0.50		mg/kg	
A425205	MFP	RPD	Total Lead (Pb)	2021/11/15	30		%	35
A425706	MFP	Matrix Spike	Total Lead (Pb)	2021/11/15		85	%	75 - 125
A425706	MFP	QC Standard	Total Lead (Pb)	2021/11/15		111	%	79 - 121
A425706	MFP	Spiked Blank	Total Lead (Pb)	2021/11/15		91	%	80 - 120
A425706	MFP	Method Blank	Total Lead (Pb)	2021/11/15	<0.50		mg/kg	
A425706	MFP	RPD	Total Lead (Pb)	2021/11/15	11		%	35
A426102	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		99	%	75 - 125
A426102	KH2	QC Standard	Total Lead (Pb)	2021/11/18		106	%	79 - 121
A426102	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		97	%	80 - 120
A426102	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A426102	KH2	RPD	Total Lead (Pb)	2021/11/18	20		%	35
A426111	KH2	Matrix Spike [AJY998-01]	Total Lead (Pb)	2021/11/18		92	%	75 - 125
A426111	KH2	QC Standard	Total Lead (Pb)	2021/11/18		99	%	79 - 121
A426111	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		99	%	80 - 120
A426111	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A426111	KH2	RPD [AJY998-01]	Total Lead (Pb)	2021/11/18	5.0		%	35
A426113	LQ1	Matrix Spike [AJY939-01]	Total Lead (Pb)	2021/11/16		90	%	75 - 125
A426113	LQ1	QC Standard	Total Lead (Pb)	2021/11/16		103	%	79 - 121
A426113	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/16		108	%	80 - 120
A426113	LQ1	Method Blank	Total Lead (Pb)	2021/11/16	<0.50		mg/kg	
A426113	LQ1	RPD [AJY939-01]	Total Lead (Pb)	2021/11/16	4.3		%	35
A426119	KH2	Matrix Spike [AJZ010-01]	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A426119	KH2	QC Standard	Total Lead (Pb)	2021/11/18		97	%	79 - 121
A426119	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		94	%	80 - 120
A426119	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A426119	KH2	RPD [AJZ010-01]	Total Lead (Pb)	2021/11/18	7.7		%	35
A426121	LQ1	Matrix Spike [AJY991-01]	Total Lead (Pb)	2021/11/16		98	%	75 - 125
A426121	LQ1	QC Standard	Total Lead (Pb)	2021/11/16		107	%	79 - 121
A426121	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/16		101	%	80 - 120
A426121	LQ1	Method Blank	Total Lead (Pb)	2021/11/16	<0.50		mg/kg	
A426121	LQ1	RPD [AJY991-01]	Total Lead (Pb)	2021/11/16	8.3		%	35
A429471	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A429471	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		116	%	79 - 121
A429471	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		96	%	80 - 120
A429471	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429471	LQ1	RPD	Total Lead (Pb)	2021/11/18	12		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C185620

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Maria Magdalena Florescu, Ph.D., P.Chem., QP, Inorganics Manager

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43434

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: ND-JS-01
Last Sample: ND-PD-05
Sample Count: 74

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/04	Amariza Bora		Date	2021/11/04
		Time (24 HR)	12:00			Time (24 HR)	1559
		Date		Reem Phillipos	Reem	Date	2021/11/05
		Time (24 HR)				Time (24 HR)	08:20
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Food Residue <input type="checkbox"/>
Bryan Girouard	1	Micro <input type="checkbox"/>	Food Chemistry <input type="checkbox"/>
		Immediate Test <input type="checkbox"/>	

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C185620

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	20.3	20.3	20.1
		See ACTR			
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43434



Project Information: C185620
Job Received: 2021/11/05 15:07
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
ND-JS-01	1	2021/11/01 09:39	SOIL	1	A
ND-JS-01D	2	2021/11/01 09:39	SOIL	1	A
ND-JS-02	3	2021/11/01 09:43	SOIL	1	A
ND-JS-03	4	2021/11/01 09:46	SOIL	1	A
ND-JS-04	5	2021/11/01 09:49	SOIL	1	A
ND-JS-05	6	2021/11/01 09:52	SOIL	1	A
ND-JS-06	7	2021/11/01 09:55	SOIL	1	A
ND-JS-07	8	2021/11/01 09:58	SOIL	1	A
ND-JS-08	9	2021/11/01 10:01	SOIL	1	A
ND-JS-09	10	2021/11/01 10:04	SOIL	1	A
ND-JS-10	11	2021/11/01 10:07	SOIL	1	A
ND-JS-11	12	2021/11/01 10:14	SOIL	1	A
ND-JS-12	13	2021/11/01 10:17	SOIL	1	A
ND-JS-13	14	2021/11/01 10:20	SOIL	1	A
ND-JS-14	15	2021/11/01 10:23	SOIL	1	A
ND-JS-15	16	2021/11/01 10:26	SOIL	1	A
ND-JS-16	17	2021/11/01 10:29	SOIL	1	A
ND-MJ-01	18	2021/11/01 10:40	SOIL	1	A



eCOC: W43434



Project Information: C185620
Job Received: 2021/11/05 15:07
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
ND-MJ-02	19	2021/11/01 10:44	SOIL	1	A
ND-MJ-03	20	2021/11/01 10:48	SOIL	1	A
ND-MJ-04	21	2021/11/01 10:52	SOIL	1	A
ND-MJ-05	22	2021/11/01 10:57	SOIL	1	A
ND-MJ-06	23	2021/11/01 11:01	SOIL	1	A
ND-MJ-07	24	2021/11/01 11:05	SOIL	1	A
ND-MJ-08	25	2021/11/01 11:09	SOIL	1	A
ND-MJ-09	26	2021/11/01 11:13	SOIL	1	A
ND-MJ-10	27	2021/11/01 11:17	SOIL	1	A
ND-MJ-11	28	2021/11/01 11:23	SOIL	1	A
ND-MJ-12	29	2021/11/01 11:28	SOIL	1	A
ND-MJ-13	30	2021/11/01 11:35	SOIL	1	A
ND-AA-01	31	2021/11/01 11:45	SOIL	1	A
ND-AA-02	32	2021/11/01 11:49	SOIL	1	A
ND-AA-03	33	2021/11/01 11:54	SOIL	1	A
ND-AA-04	34	2021/11/01 11:58	SOIL	1	A
ND-AA-05	35	2021/11/01 12:07	SOIL	1	A
ND-AA-05D	36	2021/11/01 12:07	SOIL	1	A
ND-AA-06	37	2021/11/01 12:11	SOIL	1	A
ND-AA-07	38	2021/11/01 12:16	SOIL	1	A
ND-AA-08	39	2021/11/01 12:20	SOIL	1	A
ND-AA-09	40	2021/11/01 12:30	SOIL	1	A
ND-AA-10	41	2021/11/01 12:35	SOIL	1	A



eCOC: W43434



Project Information: C185620
Job Received: 2021/11/05 15:07
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
ND-AA-11	42	2021/11/01 12:40	SOIL	1	A
ND-NS-01	43	2021/11/01 13:05	SOIL	1	A
ND-NS-02	44	2021/11/01 13:07	SOIL	1	A
ND-NS-03	45	2021/11/01 13:09	SOIL	1	A
ND-NS-04	46	2021/11/01 13:11	SOIL	1	A
ND-NS-05	47	2021/11/01 13:16	SOIL	1	A
ND-NS-05D	48	2021/11/01 13:16	SOIL	1	A
ND-NS-06	49	2021/11/01 13:18	SOIL	1	A
ND-NS-07	50	2021/11/01 13:20	SOIL	1	A
ND-NS-08	51	2021/11/01 13:23	SOIL	1	A
ND-NS-09	52	2021/11/01 13:27	SOIL	1	A
ND-NS-10	53	2021/11/01 13:30	SOIL	1	A
ND-JZ-01	54	2021/11/01 13:38	SOIL	1	A
ND-JZ-02	55	2021/11/01 13:12	SOIL	1	A
ND-JZ-03	56	2021/11/01 13:47	SOIL	1	A
ND-JZ-04	57	2021/11/01 13:51	SOIL	1	A
ND-JZ-05	58	2021/11/01 13:56	SOIL	1	A
ND-JZ-06	59	2021/11/01 14:01	SOIL	1	A
ND-JZ-07	60	2021/11/01 14:05	SOIL	1	A
ND-SL-01	61	2021/11/01 14:20	SOIL	1	A
ND-SL-02	62	2021/11/01 14:23	SOIL	1	A
ND-SL-03	63	2021/11/01 14:25	SOIL	1	A
ND-SL-04	64	2021/11/01 14:30	SOIL	1	A



eCOC: W43434



Project Information: C185620
Job Received: 2021/11/05 15:07
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
ND-SL-05	65	2021/11/01 14:44	SOIL	1	A
ND-SL-06	66	2021/11/01 14:32	SOIL	1	A
ND-SL-07	67	2021/11/01 14:35	SOIL	1	A
ND-SL-07D	68	2021/11/01 14:35	SOIL	1	A
ND-SL-08	69	2021/11/01 14:42	SOIL	1	A
ND-PD-01	70	2021/11/01 14:58	SOIL	1	A
ND-PD-02	71	2021/11/01 15:02	SOIL	1	A
ND-PD-03	72	2021/11/01 15:07	SOIL	1	A
ND-PD-04	73	2021/11/01 15:10	SOIL	1	A
ND-PD-05	74	2021/11/01 15:15	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 74

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/02

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C185629

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43443

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101968
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C185629

Received: 2021/11/04, 15:59

Sample Matrix: Soil
Samples Received: 69

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead (1)	16	2021/11/14	2021/11/15	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	8	2021/11/15	2021/11/15	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	14	2021/11/15	2021/11/16	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	29	2021/11/15	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	2	2021/11/17	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43443

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101968
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C185629

Received: 2021/11/04, 15:59

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

19 Nov 2021 19:06:18

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C185629

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJZ082	AJZ083		AJZ084		AJZ085	AJZ086		
Sampling Date		2021/11/02 09:18	2021/11/02 09:21		2021/11/02 09:24		2021/11/02 09:27	2021/11/02 09:33		
COC Number		43443	43443		43443		43443	43443		
	UNITS	SD-GS-01	SD-GS-02	QC Batch	SD-GS-03	QC Batch	SD-GS-04	SD-GS-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	170	58	A426111	110	A426113	87	100	1.0	A425205
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJZ087		AJZ088		AJZ089	AJZ090	AJZ091		
Sampling Date		2021/11/02 09:36		2021/11/02 09:39		2021/11/02 09:30	2021/11/02 09:42	2021/11/02 09:45		
COC Number		43443		43443		43443	43443	43443		
	UNITS	SD-GS-06	QC Batch	SD-GS-07	QC Batch	SD-GS-08	SD-GS-09	SD-GS-10	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	91	A425205	140	A426111	130	170	33	1.0	A425205
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJZ092		AJZ093	AJZ094	AJZ095	AJZ096	AJZ097		
Sampling Date		2021/11/02 10:00		2021/11/02 10:10	2021/11/02 10:05	2021/11/02 10:15	2021/11/02 10:26	2021/11/02 10:26		
COC Number		43443		43443	43443	43443	43443	43443		
	UNITS	SD-WW-01	QC Batch	SD-WW-02	SD-WW-03	SD-WW-04	SD-FD-01	SD-FD-01D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	110	A426111	240	240	290	20	14	1.0	A426121
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJZ098		AJZ099	AJZ100	AJZ101	AJZ102	AJZ103		
Sampling Date		2021/11/02 10:34		2021/11/02 10:42	2021/11/02 10:50	2021/11/02 11:11	2021/11/02 11:15	2021/11/02 11:19		
COC Number		43443		43443	43443	43443	43443	43443		
	UNITS	SD-FD-02	QC Batch	SD-FD-03	SD-FD-04	LS-NW-01	LS-NW-02	LS-NW-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	55	A426121	70	380	50	41	34	1.0	A426111
RDL = Reportable Detection Limit										

Bureau Veritas ID		AJZ104	AJZ105	AJZ106	AJZ107	AJZ108		AJZ109		
Sampling Date		2021/11/02 11:30	2021/11/02 11:23	2021/11/02 11:23	2021/11/02 11:32	2021/11/02 11:34		2021/11/02 11:39		
COC Number		43443	43443	43443	43443	43443		43443		
	UNITS	LS-NW-04	LS-NW-05	LS-NW-05D	LS-NW-06	LS-NW-07	QC Batch	LS-NW-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	34	50	52	15	24	A426111	150	1.0	A425205
RDL = Reportable Detection Limit										



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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJZ110		AJZ111	AJZ112		AJZ113	AJZ114		
Sampling Date		2021/11/02 11:43		2021/11/02 11:47	2021/11/02 11:50		2021/11/02 11:54	2021/11/02 12:28		
COC Number		43443		43443	43443		43443	43443		
	UNITS	LS-NW-09	QC Batch	LS-NW-10	LS-NW-11	QC Batch	LS-NW-12	LS-DL-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	49	A426119	63	41	A425706	51	35	1.0	A426113

RDL = Reportable Detection Limit

Bureau Veritas ID		AJZ115		AJZ116		AJZ117	AJZ118		AJZ119		
Sampling Date		2021/11/02 12:31		2021/11/02 12:34		2021/11/02 12:34	2021/11/02 12:37		2021/11/02 12:40		
COC Number		43443		43443		43443	43443		43443		
	UNITS	LS-DL-02	QC Batch	LS-DL-03	QC Batch	LS-DL-03D	LS-DL-04	QC Batch	LS-DL-05	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	150	A426113	24	A426102	42	130	A426113	41	1.0	A426102

RDL = Reportable Detection Limit

Bureau Veritas ID		AJZ120		AJZ121	AJZ122	AJZ123		AJZ124		
Sampling Date		2021/11/02 12:43		2021/11/02 12:47	2021/11/02 12:50	2021/11/02 12:53		2021/11/02 13:12		
COC Number		43443		43443	43443	43443		43443		
	UNITS	LS-DL-06	QC Batch	LS-DL-07	LS-DL-08	LS-DL-09	QC Batch	LS-RP-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	51	A426102	64	110	57	A426119	45	1.0	A426102

RDL = Reportable Detection Limit

Bureau Veritas ID		AJZ125		AJZ126		AJZ127		AJZ128	AJZ129		
Sampling Date		2021/11/02 13:16		2021/11/02 13:20		2021/11/02 13:24		2021/11/02 13:28	2021/11/02 13:32		
COC Number		43443		43443		43443		43443	43443		
	UNITS	LS-RP-02	QC Batch	LS-RP-03	QC Batch	LS-RP-04	QC Batch	LS-RP-05	LS-RP-06	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	75	A426119	45	A425706	58	A425205	48	45	1.0	A425706

RDL = Reportable Detection Limit

Bureau Veritas ID		AJZ130		AJZ131		AJZ132	AJZ133	AJZ134		
Sampling Date		2021/11/02 13:36		2021/11/02 13:40		2021/11/02 14:00	2021/11/02 14:03	2021/11/02 14:07		
COC Number		43443		43443		43443	43443	43443		
	UNITS	LS-RP-07	QC Batch	LS-RP-08	QC Batch	LS-TI-01	LS-TI-02	LS-TI-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	44	A425205	100	A426119	29	53	28	1.0	A425205

RDL = Reportable Detection Limit



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PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AJZ135	AJZ136	AJZ137	AJZ138		AJZ139	AJZ140		
Sampling Date		2021/11/02 14:10	2021/11/02 14:13	2021/11/02 14:17	2021/11/02 14:20		2021/11/02 14:23	2021/11/02 14:26		
COC Number		43443	43443	43443	43443		43443	43443		
	UNITS	LS-TI-04	LS-TI-05	LS-TI-06	LS-TI-07	QC Batch	LS-TI-08	LS-TI-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	27	71	42	100	A425205	18	16	1.0	A429471

RDL = Reportable Detection Limit

Bureau Veritas ID		AJZ141		AJZ142	AJZ143		AJZ144	AJZ145		
Sampling Date		2021/11/02 14:30		2021/11/02 14:33	2021/11/02 14:36		2021/11/02 14:39	2021/11/02 14:42		
COC Number		43443		43443	43443		43443	43443		
	UNITS	LS-TI-10	QC Batch	LS-DS-01	LS-DS-02	QC Batch	LS-DS-03	LS-DS-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	27	A426102	110	53	A426113	23	68	1.0	A425706

RDL = Reportable Detection Limit

Bureau Veritas ID		AJZ146		AJZ147		AJZ148		AJZ149	AJZ150		
Sampling Date		2021/11/02 14:45		2021/11/02 14:48		2021/11/02 14:55		2021/11/02 14:58	2021/11/02 15:00		
COC Number		43443		43443		43443		43443	43443		
	UNITS	LS-DS-05	QC Batch	LS-DS-06	QC Batch	LS-DS-07	QC Batch	LS-DS-08	LS-DS-09	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	330	A425706	22	A426102	85	A426119	120	63	1.0	A426102

RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	20.1°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AJZ082 [SD-GS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ083 [SD-GS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ084 [SD-GS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ085 [SD-GS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ086 [SD-GS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ087 [SD-GS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ088 [SD-GS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ089 [SD-GS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ090 [SD-GS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ091 [SD-GS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ092 [SD-WW-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ093 [SD-WW-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ094 [SD-WW-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ095 [SD-WW-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ096 [SD-FD-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ097 [SD-FD-01D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ098 [SD-FD-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ099 [SD-FD-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ100 [SD-FD-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ101 [LS-NW-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ102 [LS-NW-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ103 [LS-NW-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ104 [LS-NW-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ105 [LS-NW-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ106 [LS-NW-05D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ107 [LS-NW-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ108 [LS-NW-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ109 [LS-NW-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ110 [LS-NW-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ111 [LS-NW-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ112 [LS-NW-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ113 [LS-NW-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ114 [LS-DL-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ115 [LS-DL-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ116 [LS-DL-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ117 [LS-DL-03D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ118 [LS-DL-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ119 [LS-DL-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ120 [LS-DL-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ121 [LS-DL-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ122 [LS-DL-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ123 [LS-DL-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ124 [LS-RP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ125 [LS-RP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ126 [LS-RP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ127 [LS-RP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ128 [LS-RP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ129 [LS-RP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ130 [LS-RP-07] Lead: Detection limits raised based on sample weight used for analysis.



Sample AJZ131 [LS-RP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ132 [LS-TI-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ133 [LS-TI-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ134 [LS-TI-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ135 [LS-TI-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ136 [LS-TI-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ137 [LS-TI-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ138 [LS-TI-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ139 [LS-TI-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ140 [LS-TI-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ141 [LS-TI-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ142 [LS-DS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ143 [LS-DS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ144 [LS-DS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ145 [LS-DS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ146 [LS-DS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ147 [LS-DS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ148 [LS-DS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ149 [LS-DS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AJZ150 [LS-DS-09] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C185629

Report Date: 2021/11/19

PARSONS INC.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A425205	MFP	Matrix Spike [AJZ130-01]	Total Lead (Pb)	2021/11/15		87	%	75 - 125
A425205	MFP	QC Standard	Total Lead (Pb)	2021/11/15		110	%	79 - 121
A425205	MFP	Spiked Blank	Total Lead (Pb)	2021/11/15		98	%	80 - 120
A425205	MFP	Method Blank	Total Lead (Pb)	2021/11/15	<0.50		mg/kg	
A425205	MFP	RPD [AJZ130-01]	Total Lead (Pb)	2021/11/15	30		%	35
A425706	MFP	Matrix Spike [AJZ126-01]	Total Lead (Pb)	2021/11/15		85	%	75 - 125
A425706	MFP	QC Standard	Total Lead (Pb)	2021/11/15		111	%	79 - 121
A425706	MFP	Spiked Blank	Total Lead (Pb)	2021/11/15		91	%	80 - 120
A425706	MFP	Method Blank	Total Lead (Pb)	2021/11/15	<0.50		mg/kg	
A425706	MFP	RPD [AJZ126-01]	Total Lead (Pb)	2021/11/15	11		%	35
A426102	KH2	Matrix Spike [AJZ116-01]	Total Lead (Pb)	2021/11/18		99	%	75 - 125
A426102	KH2	QC Standard	Total Lead (Pb)	2021/11/18		106	%	79 - 121
A426102	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		97	%	80 - 120
A426102	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A426102	KH2	RPD [AJZ116-01]	Total Lead (Pb)	2021/11/18	20		%	35
A426111	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		92	%	75 - 125
A426111	KH2	QC Standard	Total Lead (Pb)	2021/11/18		99	%	79 - 121
A426111	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		99	%	80 - 120
A426111	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A426111	KH2	RPD	Total Lead (Pb)	2021/11/18	5.0		%	35
A426113	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/16		90	%	75 - 125
A426113	LQ1	QC Standard	Total Lead (Pb)	2021/11/16		103	%	79 - 121
A426113	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/16		108	%	80 - 120
A426113	LQ1	Method Blank	Total Lead (Pb)	2021/11/16	<0.50		mg/kg	
A426113	LQ1	RPD	Total Lead (Pb)	2021/11/16	4.3		%	35
A426119	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A426119	KH2	QC Standard	Total Lead (Pb)	2021/11/18		97	%	79 - 121
A426119	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		94	%	80 - 120
A426119	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A426119	KH2	RPD	Total Lead (Pb)	2021/11/18	7.7		%	35
A426121	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/16		98	%	75 - 125
A426121	LQ1	QC Standard	Total Lead (Pb)	2021/11/16		107	%	79 - 121
A426121	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/16		101	%	80 - 120
A426121	LQ1	Method Blank	Total Lead (Pb)	2021/11/16	<0.50		mg/kg	
A426121	LQ1	RPD	Total Lead (Pb)	2021/11/16	8.3		%	35
A429471	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A429471	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		116	%	79 - 121
A429471	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		96	%	80 - 120
A429471	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429471	LQ1	RPD	Total Lead (Pb)	2021/11/18	12		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Maria Magdalena Florescu, Ph.D., P.Chem., QP, Inorganics Manager

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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Custody Tracking Form



W43443

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: SD-GS-01
Last Sample: LS-DS-09
Sample Count: 69

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/04	Amarigta Broux		Date	2021/11/04
		Time (24 HR)	12:00			Time (24 HR)	15:59
		Date				Date	2021/11/05
		Time (24 HR)				Time (24 HR)	08:20
		Date		Reem Phillipos		Date	
		Time (24 HR)				Time (24 HR)	
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Bryan Girouard

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

C185629

Verified By

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	20.1	20.1	20.1
See ACTR					
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43443



Project Information: C185629
Job Received: 2021/11/04 15:59
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SD-GS-01	1	2021/11/02 09:18	SOIL	1	A
SD-GS-02	2	2021/11/02 09:21	SOIL	1	A
SD-GS-03	3	2021/11/02 09:24	SOIL	1	A
SD-GS-04	4	2021/11/02 09:27	SOIL	1	A
SD-GS-05	5	2021/11/02 09:33	SOIL	1	A
SD-GS-06	6	2021/11/02 09:36	SOIL	1	A
SD-GS-07	7	2021/11/02 09:39	SOIL	1	A
SD-GS-08	8	2021/11/02 09:30	SOIL	1	A
SD-GS-09	9	2021/11/02 09:42	SOIL	1	A
SD-GS-10	10	2021/11/02 09:45	SOIL	1	A
SD-WW-01	11	2021/11/02 10:00	SOIL	1	A
SD-WW-02	12	2021/11/02 10:10	SOIL	1	A
SD-WW-03	13	2021/11/02 10:05	SOIL	1	A
SD-WW-04	14	2021/11/02 10:15	SOIL	1	A
SD-FD-01	15	2021/11/02 10:26	SOIL	1	A
SD-FD-01D	16	2021/11/02 10:26	SOIL	1	A
SD-FD-02	17	2021/11/02 10:34	SOIL	1	A
SD-FD-03	18	2021/11/02 10:42	SOIL	1	A



eCOC: W43443



Project Information: C185629
Job Received: 2021/11/04 15:59
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SD-FD-04	19	2021/11/02 10:50	SOIL	1	A
LS-NW-01	20	2021/11/02 11:11	SOIL	1	A
LS-NW-02	21	2021/11/02 11:15	SOIL	1	A
LS-NW-03	22	2021/11/02 11:19	SOIL	1	A
LS-NW-04	23	2021/11/02 11:30	SOIL	1	A
LS-NW-05	24	2021/11/02 11:23	SOIL	1	A
LS-NW-05D	25	2021/11/02 11:23	SOIL	1	A
LS-NW-06	26	2021/11/02 11:32	SOIL	1	A
LS-NW-07	27	2021/11/02 11:34	SOIL	1	A
LS-NW-08	28	2021/11/02 11:39	SOIL	1	A
LS-NW-09	29	2021/11/02 11:43	SOIL	1	A
LS-NW-10	30	2021/11/02 11:47	SOIL	1	A
LS-NW-11	31	2021/11/02 11:50	SOIL	1	A
LS-NW-12	32	2021/11/02 11:54	SOIL	1	A
LS-DL-01	33	2021/11/02 12:28	SOIL	1	A
LS-DL-02	34	2021/11/02 12:31	SOIL	1	A
LS-DL-03	35	2021/11/02 12:34	SOIL	1	A
LS-DL-03D	36	2021/11/02 12:34	SOIL	1	A
LS-DL-04	37	2021/11/02 12:37	SOIL	1	A
LS-DL-05	38	2021/11/02 12:40	SOIL	1	A
LS-DL-06	39	2021/11/02 12:43	SOIL	1	A
LS-DL-07	40	2021/11/02 12:47	SOIL	1	A
LS-DL-08	41	2021/11/02 12:50	SOIL	1	A



eCOC: W43443



Project Information: C185629
Job Received: 2021/11/04 15:59
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LS-DL-09	42	2021/11/02 12:53	SOIL	1	A
LS-RP-01	43	2021/11/02 13:12	SOIL	1	A
LS-RP-02	44	2021/11/02 13:16	SOIL	1	A
LS-RP-03	45	2021/11/02 13:20	SOIL	1	A
LS-RP-04	46	2021/11/02 13:24	SOIL	1	A
LS-RP-05	47	2021/11/02 13:28	SOIL	1	A
LS-RP-06	48	2021/11/02 13:32	SOIL	1	A
LS-RP-07	49	2021/11/02 13:36	SOIL	1	A
LS-RP-08	50	2021/11/02 13:40	SOIL	1	A
LS-TI-01	51	2021/11/02 14:00	SOIL	1	A
LS-TI-02	52	2021/11/02 14:03	SOIL	1	A
LS-TI-03	53	2021/11/02 14:07	SOIL	1	A
LS-TI-04	54	2021/11/02 14:10	SOIL	1	A
LS-TI-05	55	2021/11/02 14:13	SOIL	1	A
LS-TI-06	56	2021/11/02 14:17	SOIL	1	A
LS-TI-07	57	2021/11/02 14:20	SOIL	1	A
LS-TI-08	58	2021/11/02 14:23	SOIL	1	A
LS-TI-09	59	2021/11/02 14:26	SOIL	1	A
LS-TI-10	60	2021/11/02 14:30	SOIL	1	A
LS-DS-01	61	2021/11/02 14:33	SOIL	1	A
LS-DS-02	62	2021/11/02 14:36	SOIL	1	A
LS-DS-03	63	2021/11/02 14:39	SOIL	1	A
LS-DS-04	64	2021/11/02 14:42	SOIL	1	A



eCOC: W43443



Project Information: C185629
Job Received: 2021/11/04 15:59
Results Required By: 2021/11/11 15:00
Expected Arrival: 2021/11/04 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/11 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
LS-DS-05	65	2021/11/02 14:45	SOIL	1	A
LS-DS-06	66	2021/11/02 14:48	SOIL	1	A
LS-DS-07	67	2021/11/02 14:55	SOIL	1	A
LS-DS-08	68	2021/11/02 14:58	SOIL	1	A
LS-DS-09	69	2021/11/02 15:00	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 69

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/03

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C186830

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43566

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/18
Report #: R3101362
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C186830

Received: 2021/11/10, 12:38

Sample Matrix: Soil
Samples Received: 69

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	20	2021/11/17	2021/11/17	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	48	2021/11/17	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	1	2021/11/18	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 43566

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/18
Report #: R3101362
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C186830

Received: 2021/11/10, 12:38

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

18 Nov 2021 17:45:14

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C186830

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKI114	AKI115	AKI116	AKI117	AKI118	AKI119	AKI120		
Sampling Date		2021/11/03 09:30	2021/11/03 09:34	2021/11/03 09:37	2021/11/03 09:40	2021/11/03 09:44	2021/11/03 09:48	2021/11/03 09:52		
COC Number		43566	43566	43566	43566	43566	43566	43566		
	UNITS	JP-JP-01	JP-JP-02	JP-JP-03	JP-JP-04	JP-JP-05	JP-JP-06	JP-JP-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	120	130	16	53	51	84	47	1.0	A428767
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKI121	AKI122	AKI123	AKI124	AKI125	AKI126	AKI127		
Sampling Date		2021/11/03 09:56	2021/11/03 10:00	2021/11/03 10:04	2021/11/03 10:08	2021/11/03 10:12	2021/11/03 10:16	2021/11/03 10:20		
COC Number		43566	43566	43566	43566	43566	43566	43566		
	UNITS	JP-JP-08	JP-JP-09	JP-JP-10	JP-JP-11	JP-JP-12	JP-JP-13	JP-JP-14	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	26	75	25	42	9.7	10	24	1.0	A428767
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKI128	AKI129	AKI130	AKI131			AKI132		
Sampling Date		2021/11/03 10:24	2021/11/03 10:30	2021/11/03 10:35	2021/11/03 10:35			2021/11/03 10:42		
COC Number		43566	43566	43566	43566			43566		
	UNITS	JP-JP-15	JP-JP-16	JP-JP-17	JP-JP-17D	RDL	QC Batch	JP-JP-18	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	340	41	30	34	1.0	A428767	26	0.50	A428825
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKI133	AKI134	AKI135			AKI136		AKI137		
Sampling Date		2021/11/03 10:45	2021/11/03 11:50	2021/11/03 11:53			2021/11/03 11:56		2021/11/03 11:59		
COC Number		43566	43566	43566			43566		43566		
	UNITS	JP-JP-19	WW-PP-01	WW-PP-02	RDL	QC Batch	WW-PP-03	QC Batch	WW-PP-04	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	26	21	51	1.0	A429482	22	A428825	61	0.50	A428834
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKI138	AKI139	AKI140			AKI141	AKI142		
Sampling Date		2021/11/03 12:02	2021/11/03 12:05	2021/11/03 12:08			2021/11/03 12:15	2021/11/03 12:20		
COC Number		43566	43566	43566			43566	43566		
	UNITS	WW-PP-05	WW-PP-06	WW-PP-07	RDL	QC Batch	WW-PP-08	WW-PP-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	50	36	7.7	0.50	A428825	170	230	1.0	A429482
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C186830
Report Date: 2021/11/18

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKI143	AKI144	AKI145			AKI146	AKI147		
Sampling Date		2021/11/03 12:25	2021/11/03 12:32	2021/11/03 12:35			2021/11/03 12:38	2021/11/03 12:42		
COC Number		43566	43566	43566			43566	43566		
	UNITS	WW-PP-10	WW-RP-01	WW-RP-02	RDL	QC Batch	WW-RP-03	WW-RP-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	160	45	31	0.50	A428834	53	110	1.0	A429482
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKI148		AKI149			AKI150	AKI151		
Sampling Date		2021/11/03 12:45		2021/11/03 12:48			2021/11/03 12:51	2021/11/03 12:54		
COC Number		43566		43566			43566	43566		
	UNITS	WW-RP-05	QC Batch	WW-RP-06	RDL	QC Batch	WW-RP-07	WW-RP-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	190	A430334	150	0.50	A428834	72	250	1.0	A429074
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKI152			AKI153			AKI154		AKI155		
Sampling Date		2021/11/03 12:57			2021/11/03 13:00			2021/11/03 13:50		2021/11/03 13:53		
COC Number		43566			43566			43566		43566		
	UNITS	WW-RP-09	RDL	QC Batch	WW-RP-10	RDL	QC Batch	WW-SC-01	QC Batch	WW-SC-02	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	430	0.50	A428825	75	1.0	A429074	36	A428825	26	0.50	A428834
RDL = Reportable Detection Limit												

Bureau Veritas ID		AKI156		AKI157			AKI158			AKI159		
Sampling Date		2021/11/03 13:56		2021/11/03 14:00			2021/11/03 14:04			2021/11/03 14:07		
COC Number		43566		43566			43566			43566		
	UNITS	WW-SC-03	QC Batch	WW-SC-04	RDL	QC Batch	WW-SC-05	RDL	QC Batch	WW-SC-06	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	65	A428834	20	0.50	A428825	23	1.0	A429482	6.7	0.50	A428825
RDL = Reportable Detection Limit												

Bureau Veritas ID		AKI160	AKI161		AKI162		AKI163		AKI164		
Sampling Date		2021/11/03 14:09	2021/11/03 14:09		2021/11/03 14:15		2021/11/03 14:17		2021/11/03 14:23		
COC Number		43566	43566		43566		43566		43566		
	UNITS	WW-SC-07	WW-SC-07D	QC Batch	WW-SC-08	QC Batch	WW-SC-09	QC Batch	WW-SC-10	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	25	17	A428834	23	A428825	26	A428834	52	0.50	A428825
RDL = Reportable Detection Limit											



**BUREAU
VERITAS**

Bureau Veritas Job #: C186830
Report Date: 2021/11/18

PARSONS INC.
Client Project #: 10-12553
Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKI165			AKI166		AKI167		AKI168		
Sampling Date		2021/11/03 13:10			2021/11/03 13:13		2021/11/03 13:16		2021/11/03 13:18		
COC Number		43566			43566		43566		43566		
	UNITS	WW-AL-01	RDL	QC Batch	WW-AL-02	QC Batch	WW-AL-03	QC Batch	WW-AL-04	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	58	1.0	A429482	80	A428834	36	A428825	120	0.50	A428834
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKI169		AKI170	AKI171		AKI172		AKI173		
Sampling Date		2021/11/03 13:20		2021/11/03 13:23	2021/11/03 13:23		2021/11/03 13:30		2021/11/03 13:34		
COC Number		43566		43566	43566		43566		43566		
	UNITS	WW-AL-05	QC Batch	WW-AL-06	WW-AL-06D	QC Batch	WW-AL-07	QC Batch	WW-AL-08	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	19	A428698	78	100	A428689	40	A428698	56	1.0	A429074
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKI174	AKI175	AKI176	AKI177	AKI178		AKI179		
Sampling Date		2021/11/03 13:37	2021/11/03 14:40	2021/11/03 14:43	2021/11/03 14:46	2021/11/03 14:52		2021/11/03 15:05		
COC Number		43566	43566	43566	43566	43566		43566		
	UNITS	WW-AL-09	WW-WW-01	WW-WW-02	WW-WW-03	WW-WW-04	QC Batch	WW-WW-05	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	320	34	31	39	23	A429074	18	1.0	A428689
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKI180	AKI181		AKI182		
Sampling Date		2021/11/03 14:55	2021/11/03 14:57		2021/11/03 15:00		
COC Number		43566	43566		43566		
	UNITS	WW-WW-06	WW-WW-07	QC Batch	WW-WW-08	RDL	QC Batch
Elements							
Total Lead (Pb)	mg/kg	34	19	A428689	26	1.0	A429074
RDL = Reportable Detection Limit							

**GENERAL COMMENTS**

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	14.3°C
Package 2	17.7°C

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKI114 [JP-JP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI115 [JP-JP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI116 [JP-JP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI117 [JP-JP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI118 [JP-JP-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI119 [JP-JP-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI120 [JP-JP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI121 [JP-JP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI122 [JP-JP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI123 [JP-JP-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI124 [JP-JP-11] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI125 [JP-JP-12] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI126 [JP-JP-13] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI127 [JP-JP-14] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI128 [JP-JP-15] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI129 [JP-JP-16] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI130 [JP-JP-17] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI131 [JP-JP-17D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI133 [JP-JP-19] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI134 [WW-PP-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI135 [WW-PP-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI141 [WW-PP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI142 [WW-PP-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI146 [WW-RP-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI147 [WW-RP-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI150 [WW-RP-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI151 [WW-RP-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI153 [WW-RP-10] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI158 [WW-SC-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI165 [WW-AL-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI169 [WW-AL-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI170 [WW-AL-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI171 [WW-AL-06D] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI172 [WW-AL-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI173 [WW-AL-08] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI174 [WW-AL-09] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI175 [WW-WW-01] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI176 [WW-WW-02] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI177 [WW-WW-03] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI178 [WW-WW-04] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI179 [WW-WW-05] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI180 [WW-WW-06] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI181 [WW-WW-07] Lead: Detection limits raised based on sample weight used for analysis.
 Sample AKI182 [WW-WW-08] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C186830

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A428689	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A428689	KH2	QC Standard	Total Lead (Pb)	2021/11/18		112	%	79 - 121
A428689	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		92	%	80 - 120
A428689	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428689	KH2	RPD	Total Lead (Pb)	2021/11/18	4.5		%	35
A428698	KH2	Matrix Spike	Total Lead (Pb)	2021/11/17		101	%	75 - 125
A428698	KH2	QC Standard	Total Lead (Pb)	2021/11/17		111	%	79 - 121
A428698	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		96	%	80 - 120
A428698	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428698	KH2	RPD	Total Lead (Pb)	2021/11/17	5.0		%	35
A428767	KH2	Matrix Spike [AKI122-01]	Total Lead (Pb)	2021/11/17		NC	%	75 - 125
A428767	KH2	QC Standard	Total Lead (Pb)	2021/11/17		110	%	79 - 121
A428767	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		94	%	80 - 120
A428767	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428767	KH2	RPD [AKI122-01]	Total Lead (Pb)	2021/11/17	2.7		%	35
A428825	LQ1	Matrix Spike [AKI140-01]	Total Lead (Pb)	2021/11/18		88	%	75 - 125
A428825	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		105	%	79 - 121
A428825	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		85	%	80 - 120
A428825	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428825	LQ1	RPD [AKI140-01]	Total Lead (Pb)	2021/11/18	15		%	35
A428834	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		83	%	75 - 125
A428834	KH2	QC Standard	Total Lead (Pb)	2021/11/18		108	%	79 - 121
A428834	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		93	%	80 - 120
A428834	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428834	KH2	RPD	Total Lead (Pb)	2021/11/18	11		%	35
A429074	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		83	%	75 - 125
A429074	KH2	QC Standard	Total Lead (Pb)	2021/11/18		97	%	79 - 121
A429074	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		82	%	80 - 120
A429074	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429074	KH2	RPD	Total Lead (Pb)	2021/11/18	13		%	35
A429482	LQ1	Matrix Spike [AKI133-01]	Total Lead (Pb)	2021/11/18		99	%	75 - 125
A429482	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		110	%	79 - 121
A429482	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		92	%	80 - 120
A429482	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429482	LQ1	RPD [AKI133-01]	Total Lead (Pb)	2021/11/18	3.4		%	35
A430334	KH2	Matrix Spike [AKI148-01]	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A430334	KH2	QC Standard	Total Lead (Pb)	2021/11/18		108	%	79 - 121
A430334	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		95	%	80 - 120
A430334	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A430334	KH2	RPD [AKI148-01]	Total Lead (Pb)	2021/11/18	18		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C186830

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sandy Yuan, M.Sc., QP, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43566

524

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: JP-JP-01
Last Sample: WW-WW-08
Sample Count: 69

Relinquished By				Received By			
Dylan Hoogervorst		Date	2021/11/09	Brooklyn Hiebert	BHT	Date	2021/11/09
		Time (24 HR)	12:00			Time (24 HR)	1600
		Date		Reem Phillipos	Reem	Date	2021/11/10
		Time (24 HR)				Time (24 HR)	08:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Immediate Test <input type="checkbox"/>
JOHN OSEMEKE	1	Micro <input type="checkbox"/>	Food Residue <input type="checkbox"/>
			Food Chemistry <input type="checkbox"/>

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C186830

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.7	19.7	19.6
Y	Y	N	15	14	14
Y	Y	N	17	18	18
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43566



Project Information: C186830
Job Received: 2021/11/10 12:38
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

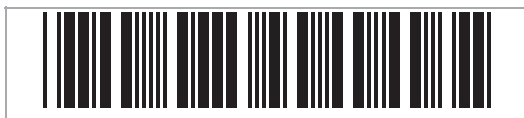
Analytical Summary

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
JP-JP-01	1	2021/11/03 09:30	SOIL	1	A
JP-JP-02	2	2021/11/03 09:34	SOIL	1	A
JP-JP-03	3	2021/11/03 09:37	SOIL	1	A
JP-JP-04	4	2021/11/03 09:40	SOIL	1	A
JP-JP-05	5	2021/11/03 09:44	SOIL	1	A
JP-JP-06	6	2021/11/03 09:48	SOIL	1	A
JP-JP-07	7	2021/11/03 09:52	SOIL	1	A
JP-JP-08	8	2021/11/03 09:56	SOIL	1	A
JP-JP-09	9	2021/11/03 10:00	SOIL	1	A
JP-JP-10	10	2021/11/03 10:04	SOIL	1	A
JP-JP-11	11	2021/11/03 10:08	SOIL	1	A
JP-JP-12	12	2021/11/03 10:12	SOIL	1	A
JP-JP-13	13	2021/11/03 10:16	SOIL	1	A
JP-JP-14	14	2021/11/03 10:20	SOIL	1	A
JP-JP-15	15	2021/11/03 10:24	SOIL	1	A
JP-JP-16	16	2021/11/03 10:30	SOIL	1	A
JP-JP-17	17	2021/11/03 10:35	SOIL	1	A
JP-JP-17D	18	2021/11/03 10:35	SOIL	1	A



eCOC: W43566



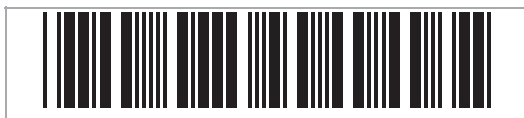
Project Information: C186830
Job Received: 2021/11/10 12:38
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
JP-JP-18	19	2021/11/03 10:42	SOIL	1	A
JP-JP-19	20	2021/11/03 10:45	SOIL	1	A
WW-PP-01	21	2021/11/03 11:50	SOIL	1	A
WW-PP-02	22	2021/11/03 11:53	SOIL	1	A
WW-PP-03	23	2021/11/03 11:56	SOIL	1	A
WW-PP-04	24	2021/11/03 11:59	SOIL	1	A
WW-PP-05	25	2021/11/03 12:02	SOIL	1	A
WW-PP-06	26	2021/11/03 12:05	SOIL	1	A
WW-PP-07	27	2021/11/03 12:08	SOIL	1	A
WW-PP-08	28	2021/11/03 12:15	SOIL	1	A
WW-PP-09	29	2021/11/03 12:20	SOIL	1	A
WW-PP-10	30	2021/11/03 12:25	SOIL	1	A
WW-RP-01	31	2021/11/03 12:32	SOIL	1	A
WW-RP-02	32	2021/11/03 12:35	SOIL	1	A
WW-RP-03	33	2021/11/03 12:38	SOIL	1	A
WW-RP-04	34	2021/11/03 12:42	SOIL	1	A
WW-RP-05	35	2021/11/03 12:45	SOIL	1	A
WW-RP-06	36	2021/11/03 12:48	SOIL	1	A
WW-RP-07	37	2021/11/03 12:51	SOIL	1	A
WW-RP-08	38	2021/11/03 12:54	SOIL	1	A
WW-RP-09	39	2021/11/03 12:57	SOIL	1	A
WW-RP-10	40	2021/11/03 13:00	SOIL	1	A
WW-SC-01	41	2021/11/03 13:50	SOIL	1	A



eCOC: W43566



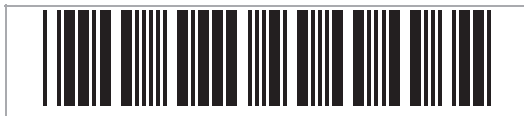
Project Information: C186830
Job Received: 2021/11/10 12:38
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WW-SC-02	42	2021/11/03 13:53	SOIL	1	A
WW-SC-03	43	2021/11/03 13:56	SOIL	1	A
WW-SC-04	44	2021/11/03 14:00	SOIL	1	A
WW-SC-05	45	2021/11/03 14:04	SOIL	1	A
WW-SC-06	46	2021/11/03 14:07	SOIL	1	A
WW-SC-07	47	2021/11/03 14:09	SOIL	1	A
WW-SC-07D	48	2021/11/03 14:09	SOIL	1	A
WW-SC-08	49	2021/11/03 14:15	SOIL	1	A
WW-SC-09	50	2021/11/03 14:17	SOIL	1	A
WW-SC-10	51	2021/11/03 14:23	SOIL	1	A
WW-AL-01	52	2021/11/03 13:10	SOIL	1	A
WW-AL-02	53	2021/11/03 13:13	SOIL	1	A
WW-AL-03	54	2021/11/03 13:16	SOIL	1	A
WW-AL-04	55	2021/11/03 13:18	SOIL	1	A
WW-AL-05	56	2021/11/03 13:20	SOIL	1	A
WW-AL-06	57	2021/11/03 13:23	SOIL	1	A
WW-AL-06D	58	2021/11/03 13:23	SOIL	1	A
WW-AL-07	59	2021/11/03 13:30	SOIL	1	A
WW-AL-08	60	2021/11/03 13:34	SOIL	1	A
WW-AL-09	61	2021/11/03 13:37	SOIL	1	A
WW-WW-01	62	2021/11/03 14:40	SOIL	1	A
WW-WW-02	63	2021/11/03 14:43	SOIL	1	A
WW-WW-03	64	2021/11/03 14:46	SOIL	1	A



eCOC: W43566



Project Information: C186830
Job Received: 2021/11/10 12:38
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WW-WW-04	65	2021/11/03 14:52	SOIL	1	A
WW-WW-05	66	2021/11/03 15:05	SOIL	1	A
WW-WW-06	67	2021/11/03 14:55	SOIL	1	A
WW-WW-07	68	2021/11/03 14:57	SOIL	1	A
WW-WW-08	69	2021/11/03 15:00	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 69

eCOC Change Log

Modified By	Date Modified	Changes	Comments
Jesse Bursee	08 Nov 21 11:13:22	Sample ID's, Sample Information	Removing SJ-SL samples and adding to another ECoC

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/04 to 2021/11/05

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C187006

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: N/A

Is Chain of Custody completed and signed (Yes/No)?: Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: No

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43571

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/18
Report #: R3101367
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C187006

Received: 2021/11/09, 16:00

Sample Matrix: Soil
Samples Received: 53

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	28	2021/11/17	2021/11/17	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	25	2021/11/17	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 43571

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/18
Report #: R3101367
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C187006

Received: 2021/11/09, 16:00

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

18 Nov 2021 18:48:01

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C187006

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKJ286		AKJ287	AKJ288		AKJ289		
Sampling Date		2021/11/04 09:40		2021/11/04 09:44	2021/11/04 09:48		2021/11/04 09:52		
COC Number		43571		43571	43571		43571		
	UNITS	DU-OE-01	QC Batch	DU-OE-02	DU-OE-03	QC Batch	DU-OE-04	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	15	A428825	27	11	A428834	55	0.50	A428825
RDL = Reportable Detection Limit									

Bureau Veritas ID		AKJ290			AKJ291	AKJ292		AKJ293	AKJ294		
Sampling Date		2021/11/04 09:56			2021/11/04 10:01	2021/11/04 10:05		2021/11/04 10:09	2021/11/04 10:13		
COC Number		43571			43571	43571		43571	43571		
	UNITS	DU-OE-05	RDL	QC Batch	DU-OE-06	DU-OE-07	QC Batch	DU-OE-08	DU-OE-09	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	54	1.0	A429482	220	62	A428834	95	14	0.50	A428825
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKJ295		AKJ296		AKJ297	AKJ298		AKJ299		
Sampling Date		2021/11/04 10:22		2021/11/04 10:22		2021/11/04 10:26	2021/11/04 10:30		2021/11/04 10:34		
COC Number		43571		43571		43571	43571		43571		
	UNITS	DU-OE-10	QC Batch	DU-OE-10D	QC Batch	DU-OE-11	DU-OE-12	QC Batch	DU-OE-13	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	6.0	A428834	7.0	A428825	13	8.8	A428834	12	0.50	A428825
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKJ300			AKJ301			AKJ302		
Sampling Date		2021/11/04 10:38			2021/11/04 10:42			2021/11/04 10:46		
COC Number		43571			43571			43571		
	UNITS	DU-OE-14	RDL	QC Batch	DU-OE-15	RDL	QC Batch	DU-OE-16	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	37	1.0	A429482	28	0.50	A428834	14	1.0	A429482
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKJ303	AKJ304			AKJ305	AKJ306		AKJ307		
Sampling Date		2021/11/04 10:50	2021/11/04 10:55			2021/11/04 11:00	2021/11/04 11:05		2021/11/04 11:30		
COC Number		43571	43571			43571	43571		43571		
	UNITS	DU-OE-17	DU-OE-18	RDL	QC Batch	DU-OE-19	DU-OE-20	QC Batch	DU-IH-01	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	12	23	0.50	A428825	53	30	A428698	86	1.0	A428696
RDL = Reportable Detection Limit											

BUREAU
VERITAS

Bureau Veritas Job #: C187006

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKJ308		AKJ309		AKJ310	AKJ311		AKJ312		
Sampling Date		2021/11/04 11:32		2021/11/04 11:34		2021/11/04 11:36	2021/11/04 11:38		2021/11/04 11:40		
COC Number		43571		43571		43571	43571		43571		
	UNITS	DU-IH-02	QC Batch	DU-IH-03	QC Batch	DU-IH-04	DU-IH-05	QC Batch	DU-IH-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	19	A428696	42	A428765	31	65	A428698	20	1.0	A428696
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ313		AKJ314	AKJ315	AKJ316	AKJ317		
Sampling Date		2021/11/04 11:42		2021/11/04 11:44	2021/11/04 11:46	2021/11/04 11:49	2021/11/05 12:30		
COC Number		43571		43571	43571	43571	43571		
	UNITS	DU-IH-07	QC Batch	DU-IH-08	DU-IH-09	DU-IH-10	DU-TP-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	36	A428698	41	17	17	69	1.0	A428765
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ318		AKJ319	AKJ320		AKJ321		AKJ322		
Sampling Date		2021/11/05 12:35		2021/11/05 12:40	2021/11/05 12:45		2021/11/05 12:50		2021/11/05 13:05		
COC Number		43571		43571	43571		43571		43571		
	UNITS	DU-TP-02	QC Batch	DU-TP-03	DU-TP-04	QC Batch	DU-TP-05	QC Batch	DU-IS-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	23	A428698	25	55	A428696	77	A428765	180	1.0	A429074
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ323	AKJ324		AKJ325	AKJ326	AKJ327		
Sampling Date		2021/11/05 13:10	2021/11/05 13:15		2021/11/05 13:20	2021/11/05 13:24	2021/11/05 14:30		
COC Number		43571	43571		43571	43571	43571		
	UNITS	DU-IS-02	DU-IS-03	QC Batch	DU-IS-04	DU-IS-05	DU-NM-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	42	15	A428698	42	290	47	1.0	A428765
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ328	AKJ329		AKJ330		AKJ331	AKJ332		
Sampling Date		2021/11/05 14:33	2021/11/05 14:36		2021/11/05 14:39		2021/11/05 14:42	2021/11/05 14:45		
COC Number		43571	43571		43571		43571	43571		
	UNITS	DU-NM-02	DU-NM-03	QC Batch	DU-NM-04	QC Batch	DU-NM-05	DU-NM-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	23	25	A428689	16	A428765	19	19	1.0	A428698
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C187006

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKJ333	AKJ334		AKJ335	AKJ336	AKJ337		
Sampling Date		2021/11/05 14:48	2021/11/05 14:51		2021/11/05 14:53	2021/11/05 14:55	2021/11/05 14:55		
COC Number		43571	43571		43571	43571	43571		
	UNITS	DU-NM-07	DU-NM-08	QC Batch	DU-NM-09	DU-NM-10	DU-NM-10D	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	22	15	A428689	20	17	7.5	1.0	A428698
RDL = Reportable Detection Limit									

Bureau Veritas ID		AKJ338		
Sampling Date		2021/11/05 15:05		
COC Number		43571		
	UNITS	DU-NM-11	RDL	QC Batch
Elements				
Total Lead (Pb)	mg/kg	97	1.0	A428689
RDL = Reportable Detection Limit				



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.7°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKJ290 [DU-OE-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ300 [DU-OE-14] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ302 [DU-OE-16] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ305 [DU-OE-19] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ306 [DU-OE-20] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ307 [DU-IH-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ308 [DU-IH-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ309 [DU-IH-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ310 [DU-IH-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ311 [DU-IH-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ312 [DU-IH-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ313 [DU-IH-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ314 [DU-IH-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ315 [DU-IH-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ316 [DU-IH-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ317 [DU-TP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ318 [DU-TP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ319 [DU-TP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ320 [DU-TP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ321 [DU-TP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ322 [DU-IS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ323 [DU-IS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ324 [DU-IS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ325 [DU-IS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ326 [DU-IS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ327 [DU-NM-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ328 [DU-NM-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ329 [DU-NM-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ330 [DU-NM-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ331 [DU-NM-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ332 [DU-NM-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ333 [DU-NM-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ334 [DU-NM-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ335 [DU-NM-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ336 [DU-NM-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ337 [DU-NM-10D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ338 [DU-NM-11] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A428689	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A428689	KH2	QC Standard	Total Lead (Pb)	2021/11/18		112	%	79 - 121
A428689	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		92	%	80 - 120
A428689	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428689	KH2	RPD	Total Lead (Pb)	2021/11/18	4.5		%	35
A428696	KH2	Matrix Spike [AKJ312-01]	Total Lead (Pb)	2021/11/17		91	%	75 - 125
A428696	KH2	QC Standard	Total Lead (Pb)	2021/11/17		107	%	79 - 121
A428696	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		93	%	80 - 120
A428696	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428696	KH2	RPD [AKJ312-01]	Total Lead (Pb)	2021/11/17	22		%	35
A428698	KH2	Matrix Spike [AKJ337-01]	Total Lead (Pb)	2021/11/17		101	%	75 - 125
A428698	KH2	QC Standard	Total Lead (Pb)	2021/11/17		111	%	79 - 121
A428698	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		96	%	80 - 120
A428698	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428698	KH2	RPD [AKJ337-01]	Total Lead (Pb)	2021/11/17	5.0		%	35
A428765	KH2	Matrix Spike	Total Lead (Pb)	2021/11/17		97	%	75 - 125
A428765	KH2	QC Standard	Total Lead (Pb)	2021/11/17		112	%	79 - 121
A428765	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		94	%	80 - 120
A428765	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428765	KH2	RPD	Total Lead (Pb)	2021/11/17	17		%	35
A428825	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/18		88	%	75 - 125
A428825	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		105	%	79 - 121
A428825	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		85	%	80 - 120
A428825	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428825	LQ1	RPD	Total Lead (Pb)	2021/11/18	15		%	35
A428834	KH2	Matrix Spike [AKJ288-01]	Total Lead (Pb)	2021/11/18		83	%	75 - 125
A428834	KH2	QC Standard	Total Lead (Pb)	2021/11/18		108	%	79 - 121
A428834	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		93	%	80 - 120
A428834	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428834	KH2	RPD [AKJ288-01]	Total Lead (Pb)	2021/11/18	11		%	35
A429074	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		83	%	75 - 125
A429074	KH2	QC Standard	Total Lead (Pb)	2021/11/18		97	%	79 - 121
A429074	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		82	%	80 - 120
A429074	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429074	KH2	RPD	Total Lead (Pb)	2021/11/18	13		%	35
A429482	LQ1	Matrix Spike	Total Lead (Pb)	2021/11/18		99	%	75 - 125
A429482	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		110	%	79 - 121
A429482	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		92	%	80 - 120
A429482	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429482	LQ1	RPD	Total Lead (Pb)	2021/11/18	3.4		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C187006

Report Date: 2021/11/18

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sandy Yuan, M.Sc., QP, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



529
Custody Tracking Form



W43571

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: DU-OE-01
Last Sample: DU-NM-11
Sample Count: 53

Relinquished By				Received By			
Dylan HooGERVORST		Date	2021/11/09	Brooklyn Hiebert	BA	Date	2021/11/09
		Time (24 HR)	12:00			Time (24 HR)	1600
		Date		Reem Phillipos	Rin	Date	2021/11/10
		Time (24 HR)				Time (24 HR)	08:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

BRYAN GIROUARD

of Coolers/Pkgs:

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By SKY

Verified By rha

C187006

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	20.2	19.4	19.6
Y	Y	N	19	18	18
Y	Y	N	16	13	14
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43571



Project Information: C187006
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
DU-OE-01	1	2021/11/04 09:40	SOIL	1	A
DU-OE-02	2	2021/11/04 09:44	SOIL	1	A
DU-OE-03	3	2021/11/04 09:48	SOIL	1	A
DU-OE-04	4	2021/11/04 09:52	SOIL	1	A
DU-OE-05	5	2021/11/04 09:56	SOIL	1	A
DU-OE-06	6	2021/11/04 10:01	SOIL	1	A
DU-OE-07	7	2021/11/04 10:05	SOIL	1	A
DU-OE-08	8	2021/11/04 10:09	SOIL	1	A
DU-OE-09	9	2021/11/04 10:13	SOIL	1	A
DU-OE-10	10	2021/11/04 10:22	SOIL	1	A
DU-OE-10D	11	2021/11/04 10:22	SOIL	1	A
DU-OE-11	12	2021/11/04 10:26	SOIL	1	A
DU-OE-12	13	2021/11/04 10:30	SOIL	1	A
DU-OE-13	14	2021/11/04 10:34	SOIL	1	A
DU-OE-14	15	2021/11/04 10:38	SOIL	1	A
DU-OE-15	16	2021/11/04 10:42	SOIL	1	A
DU-OE-16	17	2021/11/04 10:46	SOIL	1	A
DU-OE-17	18	2021/11/04 10:50	SOIL	1	A



eCOC: W43571



Project Information: C187006
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
DU-OE-18	19	2021/11/04 10:55	SOIL	1	A
DU-OE-19	20	2021/11/04 11:00	SOIL	1	A
DU-OE-20	21	2021/11/04 11:05	SOIL	1	A
DU-IH-01	22	2021/11/04 11:30	SOIL	1	A
DU-IH-02	23	2021/11/04 11:32	SOIL	1	A
DU-IH-03	24	2021/11/04 11:34	SOIL	1	A
DU-IH-04	25	2021/11/04 11:36	SOIL	1	A
DU-IH-05	26	2021/11/04 11:38	SOIL	1	A
DU-IH-06	27	2021/11/04 11:40	SOIL	1	A
DU-IH-07	28	2021/11/04 11:42	SOIL	1	A
DU-IH-08	29	2021/11/04 11:44	SOIL	1	A
DU-IH-09	30	2021/11/04 11:46	SOIL	1	A
DU-IH-10	31	2021/11/04 11:49	SOIL	1	A
DU-TP-01	32	2021/11/05 12:30	SOIL	1	A
DU-TP-02	33	2021/11/05 12:35	SOIL	1	A
DU-TP-03	34	2021/11/05 12:40	SOIL	1	A
DU-TP-04	35	2021/11/05 12:45	SOIL	1	A
DU-TP-05	36	2021/11/05 12:50	SOIL	1	A
DU-IS-01	37	2021/11/05 13:05	SOIL	1	A
DU-IS-02	38	2021/11/05 13:10	SOIL	1	A
DU-IS-03	39	2021/11/05 13:15	SOIL	1	A
DU-IS-04	40	2021/11/05 13:20	SOIL	1	A
DU-IS-05	41	2021/11/05 13:24	SOIL	1	A



eCOC: W43571



Project Information: C187006
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
DU-NM-01	42	2021/11/05 14:30	SOIL	1	A
DU-NM-02	43	2021/11/05 14:33	SOIL	1	A
DU-NM-03	44	2021/11/05 14:36	SOIL	1	A
DU-NM-04	45	2021/11/05 14:39	SOIL	1	A
DU-NM-05	46	2021/11/05 14:42	SOIL	1	A
DU-NM-06	47	2021/11/05 14:45	SOIL	1	A
DU-NM-07	48	2021/11/05 14:48	SOIL	1	A
DU-NM-08	49	2021/11/05 14:51	SOIL	1	A
DU-NM-09	50	2021/11/05 14:53	SOIL	1	A
DU-NM-10	51	2021/11/05 14:55	SOIL	1	A
DU-NM-10D	52	2021/11/05 14:55	SOIL	1	A
DU-NM-11	53	2021/11/05 15:05	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 53

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/03 to 2021/11/04

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C187009

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 43568

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101525
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C187009

Received: 2021/11/09, 16:00

Sample Matrix: Soil
Samples Received: 65

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	28	2021/11/17	2021/11/17	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	37	2021/11/17	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 10-12553
Your C.O.C. #: 43568

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101525
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C187009

Received: 2021/11/09, 16:00

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

19 Nov 2021 10:55:14

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C187009

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKJ343		AKJ344	AKJ345	AKJ346	AKJ347		
Sampling Date		2021/11/03 11:10		2021/11/03 11:13	2021/11/03 11:16	2021/11/03 11:19	2021/11/03 11:22		
COC Number		43568		43568	43568	43568	43568		
	UNITS	SJ-SL-01	QC Batch	SJ-SL-02	SJ-SL-03	SJ-SL-04	SJ-SL-05	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	75	A428689	49	71	92	92	1.0	A428696
RDL = Reportable Detection Limit									

Bureau Veritas ID		AKJ348	AKJ349		AKJ350		AKJ351	AKJ352		
Sampling Date		2021/11/03 11:25	2021/11/03 11:28		2021/11/03 11:30		2021/11/03 11:30	2021/11/03 11:37		
COC Number		43568	43568		43568		43568	43568		
	UNITS	SJ-SL-06	SJ-SL-07	QC Batch	SJ-SL-08	QC Batch	SJ-SL-08D	SJ-SL-09	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	15	96	A428689	20	A428696	21	15	1.0	A428765
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKJ353		AKJ354		AKJ355	AKJ356	AKJ357		
Sampling Date		2021/11/03 11:39		2021/11/04 12:06		2021/11/04 12:09	2021/11/04 12:13	2021/11/04 12:16		
COC Number		43568		43568		43568	43568	43568		
	UNITS	SJ-SL-10	QC Batch	SJ-AL-01	QC Batch	SJ-AL-02	SJ-AL-03	SJ-AL-04	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	53	A428689	120	A429074	61	12	27	1.0	A428765
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKJ358	AKJ359	AKJ360		AKJ361		AKJ362		
Sampling Date		2021/11/04 12:19	2021/11/04 12:22	2021/11/04 12:25		2021/11/04 12:28		2021/11/04 12:30		
COC Number		43568	43568	43568		43568		43568		
	UNITS	SJ-AL-05	SJ-AL-06	SJ-AL-07	QC Batch	SJ-AL-08	QC Batch	SJ-AL-09	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	36	21	41	A429074	43	A428689	51	1.0	A428765
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKJ363		AKJ364		AKJ365	AKJ366	AKJ367		
Sampling Date		2021/11/04 12:33		2021/11/04 12:58		2021/11/04 13:02	2021/11/04 13:05	2021/11/04 13:08		
COC Number		43568		43568		43568	43568	43568		
	UNITS	SJ-AL-10	QC Batch	SJ-MP-01	QC Batch	SJ-MP-02	SJ-MP-03	SJ-MP-04	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	49	A428765	76	A429074	48	33	11	1.0	A428689
RDL = Reportable Detection Limit										



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PARSONS INC.
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Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKJ368	AKJ369	AKJ370		AKJ371		AKJ372		
Sampling Date		2021/11/04 13:11	2021/11/04 13:14	2021/11/04 13:18		2021/11/04 13:21		2021/11/04 13:25		
COC Number		43568	43568	43568		43568		43568		
	UNITS	SJ-MP-05	SJ-MP-06	SJ-MP-07	QC Batch	SJ-MP-08	QC Batch	SJ-MP-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	31	18	34	A429074	41	A428765	52	1.0	A429074
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ373	AKJ374		AKJ375		AKJ376	AKJ377		
Sampling Date		2021/11/04 13:29	2021/11/04 13:33		2021/11/04 13:38		2021/11/04 13:46	2021/11/04 13:49		
COC Number		43568	43568		43568		43568	43568		
	UNITS	SJ-MP-10	SJ-MP-11	QC Batch	SJ-MP-12	QC Batch	SJ-RB-01	SJ-RB-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	56	38 (1)	A428765	54	A428689	24	36	1.0	A428698
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RDL = Reportable Detection Limit

(1) Detection limits raised based on sample weight used for analysis.

Bureau Veritas ID		AKJ378	AKJ379		AKJ380		AKJ381		AKJ382		
Sampling Date		2021/11/04 13:52	2021/11/04 13:55		2021/11/04 13:59		2021/11/04 14:05		2021/11/04 14:05		
COC Number		43568	43568		43568		43568		43568		
	UNITS	SJ-RB-03	SJ-RB-04	QC Batch	SJ-RB-05	QC Batch	SJ-RB-06	QC Batch	SJ-RB-06D	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	11	9.7	A428698	15	A428689	15	A428698	14	1.0	A429471
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ383	AKJ384	AKJ385	AKJ386	AKJ387	AKJ388	AKJ389		
Sampling Date		2021/11/04 14:09	2021/11/04 14:12	2021/11/04 14:14	2021/11/04 14:18	2021/11/04 14:30	2021/11/04 14:33	2021/11/04 14:36		
COC Number		43568	43568	43568	43568	43568	43568	43568		
	UNITS	SJ-RB-07	SJ-RB-08	SJ-RB-09	SJ-RB-10	SJ-MS-01	SJ-MS-02	SJ-MS-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	18	18	21	58	43	23	41	1.0	A429471
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKJ390		AKJ391		AKJ392	AKJ393		AKJ394		
Sampling Date		2021/11/04 14:38		2021/11/04 14:41		2021/11/04 14:46	2021/11/04 14:46		2021/11/04 14:49		
COC Number		43568		43568		43568	43568		43568		
	UNITS	SJ-MS-04	QC Batch	SJ-MS-05	QC Batch	SJ-MS-06	SJ-MS-06D	QC Batch	SJ-MS-07	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	22	A429471	21	A428696	47	40	A428767	21	1.0	A429471
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RDL = Reportable Detection Limit



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PARSONS INC.

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Sampler Initials: DH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKJ395	AKJ396	AKJ397	AKJ398		AKJ399		
Sampling Date		2021/11/04 14:52	2021/11/04 14:56	2021/11/04 15:00	2021/11/04 15:15		2021/11/04 15:17		
COC Number		43568	43568	43568	43568		43568		
	UNITS	SJ-MS-08	SJ-MS-09	SJ-MS-10	SJ-CS-01	QC Batch	SJ-CS-02	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	30	34	31	27	A428696	53	1.0	A429471
RDL = Reportable Detection Limit									

Bureau Veritas ID		AKJ400	AKJ401		AKJ402	AKJ403		AKJ404		
Sampling Date		2021/11/04 15:20	2021/11/04 15:22		2021/11/04 15:25	2021/11/04 15:27		2021/11/04 15:30		
COC Number		43568	43568		43568	43568		43568		
	UNITS	SJ-CS-03	SJ-CS-04	QC Batch	SJ-CS-05	SJ-CS-06	QC Batch	SJ-CS-07	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	190	32	A428696	18	19	A429471	19	1.0	A428696
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKJ405		AKJ406		AKJ407		
Sampling Date		2021/11/04 15:33		2021/11/04 15:36		2021/11/04 15:39		
COC Number		43568		43568		43568		
	UNITS	SJ-CS-08	QC Batch	SJ-CS-09	QC Batch	SJ-CS-10	RDL	QC Batch
Elements								
Total Lead (Pb)	mg/kg	29	A428696	11	A429471	24	1.0	A428696
RDL = Reportable Detection Limit								



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PARSONS INC.

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	19.6°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKJ343 [SJ-SL-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ344 [SJ-SL-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ345 [SJ-SL-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ346 [SJ-SL-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ347 [SJ-SL-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ348 [SJ-SL-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ349 [SJ-SL-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ350 [SJ-SL-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ351 [SJ-SL-08D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ352 [SJ-SL-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ353 [SJ-SL-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ354 [SJ-AL-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ355 [SJ-AL-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ356 [SJ-AL-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ357 [SJ-AL-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ358 [SJ-AL-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ359 [SJ-AL-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ360 [SJ-AL-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ361 [SJ-AL-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ362 [SJ-AL-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ363 [SJ-AL-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ364 [SJ-MP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ365 [SJ-MP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ366 [SJ-MP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ367 [SJ-MP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ368 [SJ-MP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ369 [SJ-MP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ370 [SJ-MP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ371 [SJ-MP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ372 [SJ-MP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ373 [SJ-MP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ374 [SJ-MP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ375 [SJ-MP-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ376 [SJ-RB-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ377 [SJ-RB-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ378 [SJ-RB-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ379 [SJ-RB-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ380 [SJ-RB-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ381 [SJ-RB-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ382 [SJ-RB-06D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ383 [SJ-RB-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ384 [SJ-RB-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ385 [SJ-RB-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ386 [SJ-RB-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ387 [SJ-MS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ388 [SJ-MS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ389 [SJ-MS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ390 [SJ-MS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ391 [SJ-MS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ392 [SJ-MS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ393 [SJ-MS-06D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ394 [SJ-MS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ395 [SJ-MS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ396 [SJ-MS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ397 [SJ-MS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ398 [SJ-CS-01] Lead: Detection limits raised based on sample weight used for analysis.



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PARSONS INC.

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Sample AKJ399 [SJ-CS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ400 [SJ-CS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ401 [SJ-CS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ402 [SJ-CS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ403 [SJ-CS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ404 [SJ-CS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ405 [SJ-CS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ406 [SJ-CS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKJ407 [SJ-CS-10] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C187009

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Client Project #: 10-12553

Sampler Initials: DH

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A428689	KH2	Matrix Spike [AKJ343-01]	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A428689	KH2	QC Standard	Total Lead (Pb)	2021/11/18		112	%	79 - 121
A428689	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		92	%	80 - 120
A428689	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A428689	KH2	RPD [AKJ343-01]	Total Lead (Pb)	2021/11/18	4.5		%	35
A428696	KH2	Matrix Spike	Total Lead (Pb)	2021/11/17		91	%	75 - 125
A428696	KH2	QC Standard	Total Lead (Pb)	2021/11/17		107	%	79 - 121
A428696	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		93	%	80 - 120
A428696	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428696	KH2	RPD	Total Lead (Pb)	2021/11/17	22		%	35
A428698	KH2	Matrix Spike	Total Lead (Pb)	2021/11/17		101	%	75 - 125
A428698	KH2	QC Standard	Total Lead (Pb)	2021/11/17		111	%	79 - 121
A428698	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		96	%	80 - 120
A428698	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428698	KH2	RPD	Total Lead (Pb)	2021/11/17	5.0		%	35
A428765	KH2	Matrix Spike [AKJ374-01]	Total Lead (Pb)	2021/11/17		97	%	75 - 125
A428765	KH2	QC Standard	Total Lead (Pb)	2021/11/17		112	%	79 - 121
A428765	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		94	%	80 - 120
A428765	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428765	KH2	RPD [AKJ374-01]	Total Lead (Pb)	2021/11/17	17		%	35
A428767	KH2	Matrix Spike	Total Lead (Pb)	2021/11/17		NC	%	75 - 125
A428767	KH2	QC Standard	Total Lead (Pb)	2021/11/17		110	%	79 - 121
A428767	KH2	Spiked Blank	Total Lead (Pb)	2021/11/17		94	%	80 - 120
A428767	KH2	Method Blank	Total Lead (Pb)	2021/11/17	<0.50		mg/kg	
A428767	KH2	RPD	Total Lead (Pb)	2021/11/17	2.7		%	35
A429074	KH2	Matrix Spike [AKJ359-01]	Total Lead (Pb)	2021/11/18		83	%	75 - 125
A429074	KH2	QC Standard	Total Lead (Pb)	2021/11/18		97	%	79 - 121
A429074	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		82	%	80 - 120
A429074	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429074	KH2	RPD [AKJ359-01]	Total Lead (Pb)	2021/11/18	13		%	35
A429471	LQ1	Matrix Spike [AKJ399-01]	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A429471	LQ1	QC Standard	Total Lead (Pb)	2021/11/18		116	%	79 - 121
A429471	LQ1	Spiked Blank	Total Lead (Pb)	2021/11/18		96	%	80 - 120
A429471	LQ1	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A429471	LQ1	RPD [AKJ399-01]	Total Lead (Pb)	2021/11/18	12		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



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Bureau Veritas Job #: C187009

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PARSONS INC.

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Sampler Initials: DH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43568

530

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: SJ-SL-01
Last Sample: SJ-CS-10
Sample Count: 65

Relinquished By				Received By			
Dylan Hoggervorst		Date	2021/11/09	Amanjit Bawa		Date	2021/11/09
		Time (24 HR)	12:00			Time (24 HR)	1600
		Date		Reem Phillipos		Date	2021/11/10
		Time (24 HR)				Time (24 HR)	08:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

BRYAN GIROUARD

of Coolers/Pkgs:

1

Rush ☐Immediate Test ☐Food Residue ☐Micro ☐Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

0187009

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	19.3	19.2	20.2
Y	Y	N	13	14	14
Y	Y	N	18	19	19
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

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eCOC: W43568



Project Information: C187009
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

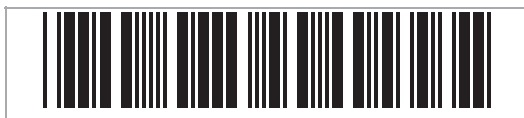
Analytical Summary

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SJ-SL-01	1	2021/11/03 11:10	SOIL	1	A
SJ-SL-02	2	2021/11/03 11:13	SOIL	1	A
SJ-SL-03	3	2021/11/03 11:16	SOIL	1	A
SJ-SL-04	4	2021/11/03 11:19	SOIL	1	A
SJ-SL-05	5	2021/11/03 11:22	SOIL	1	A
SJ-SL-06	6	2021/11/03 11:25	SOIL	1	A
SJ-SL-07	7	2021/11/03 11:28	SOIL	1	A
SJ-SL-08	8	2021/11/03 11:30	SOIL	1	A
SJ-SL-08D	9	2021/11/03 11:30	SOIL	1	A
SJ-SL-09	10	2021/11/03 11:37	SOIL	1	A
SJ-SL-10	11	2021/11/03 11:39	SOIL	1	A
SJ-AL-01	12	2021/11/04 12:06	SOIL	1	A
SJ-AL-02	13	2021/11/04 12:09	SOIL	1	A
SJ-AL-03	14	2021/11/04 12:13	SOIL	1	A
SJ-AL-04	15	2021/11/04 12:16	SOIL	1	A
SJ-AL-05	16	2021/11/04 12:19	SOIL	1	A
SJ-AL-06	17	2021/11/04 12:22	SOIL	1	A
SJ-AL-07	18	2021/11/04 12:25	SOIL	1	A



eCOC: W43568



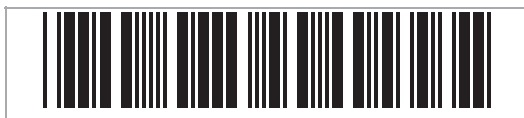
Project Information: C187009
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SJ-AL-08	19	2021/11/04 12:28	SOIL	1	A
SJ-AL-09	20	2021/11/04 12:30	SOIL	1	A
SJ-AL-10	21	2021/11/04 12:33	SOIL	1	A
SJ-MP-01	22	2021/11/04 12:58	SOIL	1	A
SJ-MP-02	23	2021/11/04 13:02	SOIL	1	A
SJ-MP-03	24	2021/11/04 13:05	SOIL	1	A
SJ-MP-04	25	2021/11/04 13:08	SOIL	1	A
SJ-MP-05	26	2021/11/04 13:11	SOIL	1	A
SJ-MP-06	27	2021/11/04 13:14	SOIL	1	A
SJ-MP-07	28	2021/11/04 13:18	SOIL	1	A
SJ-MP-08	29	2021/11/04 13:21	SOIL	1	A
SJ-MP-09	30	2021/11/04 13:25	SOIL	1	A
SJ-MP-10	31	2021/11/04 13:29	SOIL	1	A
SJ-MP-11	32	2021/11/04 13:33	SOIL	1	A
SJ-MP-12	33	2021/11/04 13:38	SOIL	1	A
SJ-RB-01	34	2021/11/04 13:46	SOIL	1	A
SJ-RB-02	35	2021/11/04 13:49	SOIL	1	A
SJ-RB-03	36	2021/11/04 13:52	SOIL	1	A
SJ-RB-04	37	2021/11/04 13:55	SOIL	1	A
SJ-RB-05	38	2021/11/04 13:59	SOIL	1	A
SJ-RB-06	39	2021/11/04 14:05	SOIL	1	A
SJ-RB-06D	40	2021/11/04 14:05	SOIL	1	A
SJ-RB-07	41	2021/11/04 14:09	SOIL	1	A



eCOC: W43568



Project Information: C187009
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SJ-RB-08	42	2021/11/04 14:12	SOIL	1	A
SJ-RB-09	43	2021/11/04 14:14	SOIL	1	A
SJ-RB-10	44	2021/11/04 14:18	SOIL	1	A
SJ-MS-01	45	2021/11/04 14:30	SOIL	1	A
SJ-MS-02	46	2021/11/04 14:33	SOIL	1	A
SJ-MS-03	47	2021/11/04 14:36	SOIL	1	A
SJ-MS-04	48	2021/11/04 14:38	SOIL	1	A
SJ-MS-05	49	2021/11/04 14:41	SOIL	1	A
SJ-MS-06	50	2021/11/04 14:46	SOIL	1	A
SJ-MS-06D	51	2021/11/04 14:46	SOIL	1	A
SJ-MS-07	52	2021/11/04 14:49	SOIL	1	A
SJ-MS-08	53	2021/11/04 14:52	SOIL	1	A
SJ-MS-09	54	2021/11/04 14:56	SOIL	1	A
SJ-MS-10	55	2021/11/04 15:00	SOIL	1	A
SJ-CS-01	56	2021/11/04 15:15	SOIL	1	A
SJ-CS-02	57	2021/11/04 15:17	SOIL	1	A
SJ-CS-03	58	2021/11/04 15:20	SOIL	1	A
SJ-CS-04	59	2021/11/04 15:22	SOIL	1	A
SJ-CS-05	60	2021/11/04 15:25	SOIL	1	A
SJ-CS-06	61	2021/11/04 15:27	SOIL	1	A
SJ-CS-07	62	2021/11/04 15:30	SOIL	1	A
SJ-CS-08	63	2021/11/04 15:33	SOIL	1	A
SJ-CS-09	64	2021/11/04 15:36	SOIL	1	A



eCOC: W43568



Project Information: C187009
Job Received: 2021/11/09 16:00
Results Required By: 2021/11/16 15:00
Expected Arrival: 2021/11/09 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/16 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SJ-CS-10	65	2021/11/04 15:39	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 65

DATA QUALITY REVIEW CHECKLIST

Consultant: <u>Parsons Inc.</u>	Sampling Date: <u>2021/11/05</u>
Location: <u>Winnipeg, Manitoba</u>	Laboratory : <u>Bureau Veritas, Winnipeg</u>
Consultant Project Number: <u>10-12553</u>	BV Labs Job Number: <u>C187477</u>

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: _____ Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: _____ Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: _____ Yes

Were all samples analyzed within hold times (Yes/No)?: _____ Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: _____ N/A

Is Chain of Custody completed and signed (Yes/No)?: _____ Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: _____ Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: _____ No

Is data considered to be reliable (Yes/No)?: _____ Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Adam Wiebe</u>	Data Reviewed by (Signature): <u>Adam Wiebe</u>
Review Date: <u>2022/01/12</u>	
Revision Date (if applicable): _____	Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43665

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101542
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C187477

Received: 2021/11/10, 15:51

Sample Matrix: Soil
Samples Received: 46

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	46	2021/11/18	2021/11/18	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43665

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/11/19
Report #: R3101542
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C187477

Received: 2021/11/10, 15:51

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

19 Nov 2021 12:23:18

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C187477

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKN335	AKN336			AKN337	AKN338			AKN339		
Sampling Date		2021/11/05 09:25	2021/11/05 09:29			2021/11/05 09:31	2021/11/05 09:34			2021/11/05 09:37		
COC Number		43665	43665			43665	43665			43665		
	UNITS	IF-AL-01	IF-AL-02	RDL	QC Batch	IF-AL-03	IF-AL-04	RDL	QC Batch	IF-AL-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	120	160	0.50	A430334	180	76	1.0	A430323	77	0.50	A430334
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKN340				AKN341				AKN342		
Sampling Date		2021/11/05 09:40				2021/11/05 09:43				2021/11/05 09:46		
COC Number		43665				43665				43665		
	UNITS	IF-AL-06	RDL	QC Batch		IF-AL-07	RDL	QC Batch		IF-AL-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	130	1.0	A430323	67	0.50	A430334	81	1.0	A430323
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKN343	AKN344			AKN345			AKN346	AKN347		
Sampling Date		2021/11/05 09:58	2021/11/05 10:02			2021/11/05 10:05			2021/11/05 10:09	2021/11/05 10:12		
COC Number		43665	43665			43665			43665	43665		
	UNITS	IF-PL-01	IF-PL-02	RDL	QC Batch	IF-PL-03	RDL	QC Batch	IF-PL-04	IF-PL-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	30	50	0.50	A430334	23	1.0	A430323	89	19	0.50	A430334
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKN348	AKN349	AKN350	AKN351	AKN352	AKN353	AKN354		
Sampling Date		2021/11/05 10:15	2021/11/05 10:19	2021/11/05 10:22	2021/11/05 10:45	2021/11/05 10:45	2021/11/05 10:50	2021/11/05 10:53		
COC Number		43665	43665	43665	43665	43665	43665	43665		
	UNITS	IF-PL-06	IF-PL-07	IF-PL-08	IF-ML-01	IF-ML-01D	IF-ML-02	IF-ML-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	16	55	42	110	140	48	220	0.50	A430334
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKN355	AKN356	AKN357	AKN358			AKN359	AKN360		
Sampling Date		2021/11/05 10:55	2021/11/05 10:58	2021/11/05 11:02	2021/11/05 11:05			2021/11/05 11:06	2021/11/05 11:20		
COC Number		43665	43665	43665	43665			43665	43665		
	UNITS	IF-ML-04	IF-ML-05	IF-ML-06	IF-ML-07	RDL	QC Batch	IF-ML-08	IF-FS-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	77	29	84	91	0.50	A430334	20	12	1.0	A430323
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C187477

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKN361	AKN362	AKN363	AKN364	AKN365		AKN366		
Sampling Date		2021/11/05 11:24	2021/11/05 11:28	2021/11/05 11:32	2021/11/05 11:35	2021/11/05 11:35		2021/11/05 11:42		
COC Number		43665	43665	43665	43665	43665		43665		
	UNITS	IF-FS-02	IF-FS-03	IF-FS-04	IF-FS-05	IF-FS-05D	QC Batch	IF-FS-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	79	20	34	20	25	A430323	14	1.0	A430403

RDL = Reportable Detection Limit

Bureau Veritas ID		AKN367	AKN368	AKN369	AKN370		AKN371	AKN372		
Sampling Date		2021/11/05 11:45	2021/11/05 11:48	2021/11/05 11:55	2021/11/05 12:00		2021/11/05 13:33	2021/11/05 13:36		
COC Number		43665	43665	43665	43665		43665	43665		
	UNITS	IF-FS-07	IF-FS-08	IF-FS-09	IF-FS-10	QC Batch	IF-IS-01	IF-IS-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	20	18	38	79	A430403	70	44	1.0	A430323

RDL = Reportable Detection Limit

Bureau Veritas ID		AKN373		AKN374	AKN375		AKN376		AKN377		
Sampling Date		2021/11/05 13:38		2021/11/05 13:40	2021/11/05 13:43		2021/11/05 13:52		2021/11/05 13:45		
COC Number		43665		43665	43665		43665		43665		
	UNITS	IF-IS-03	QC Batch	IF-IS-04	IF-IS-05	QC Batch	IF-IS-06	QC Batch	IF-IS-07	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	45	A430403	48	130	A430323	21	A430403	120	1.0	A430323

RDL = Reportable Detection Limit

Bureau Veritas ID		AKN378	AKN379	AKN380		
Sampling Date		2021/11/05 13:49	2021/11/05 13:55	2021/11/05 14:00		
COC Number		43665	43665	43665		
	UNITS	IF-IS-08	IF-IS-09	IF-IS-10	RDL	QC Batch

Elements						
Total Lead (Pb)	mg/kg	130	68	17	1.0	A430323

RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	16.0°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKN337 [IF-AL-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN338 [IF-AL-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN340 [IF-AL-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN342 [IF-AL-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN345 [IF-PL-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN359 [IF-ML-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN360 [IF-FS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN361 [IF-FS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN362 [IF-FS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN363 [IF-FS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN364 [IF-FS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN365 [IF-FS-05D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN366 [IF-FS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN367 [IF-FS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN368 [IF-FS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN369 [IF-FS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN370 [IF-FS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN371 [IF-IS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN372 [IF-IS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN373 [IF-IS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN374 [IF-IS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN375 [IF-IS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN376 [IF-IS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN377 [IF-IS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN378 [IF-IS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN379 [IF-IS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKN380 [IF-IS-10] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C187477

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A430323	KH2	Matrix Spike [AKN338-01]	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A430323	KH2	QC Standard	Total Lead (Pb)	2021/11/18		113	%	79 - 121
A430323	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		99	%	80 - 120
A430323	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A430323	KH2	RPD [AKN338-01]	Total Lead (Pb)	2021/11/18	5.2		%	35
A430334	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		NC	%	75 - 125
A430334	KH2	QC Standard	Total Lead (Pb)	2021/11/18		108	%	79 - 121
A430334	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		95	%	80 - 120
A430334	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A430334	KH2	RPD	Total Lead (Pb)	2021/11/18	18		%	35
A430403	KH2	Matrix Spike	Total Lead (Pb)	2021/11/18		83	%	75 - 125
A430403	KH2	QC Standard	Total Lead (Pb)	2021/11/18		118	%	79 - 121
A430403	KH2	Spiked Blank	Total Lead (Pb)	2021/11/18		94	%	80 - 120
A430403	KH2	Method Blank	Total Lead (Pb)	2021/11/18	<0.50		mg/kg	
A430403	KH2	RPD	Total Lead (Pb)	2021/11/18	1.3		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C187477

Report Date: 2021/11/19

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form

602



W43665

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: IF-AL-01
Last Sample: IF-IS-10
Sample Count: 46

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/10	Amanjit Bawa		Date	2021/11/10
		Time (24 HR)	11:30			Time (24 HR)	1551
		Date		Adam A. Shleigh		Date	2021/11/12
		Time (24 HR)				Time (24 HR)	08:45
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Shane Barry

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

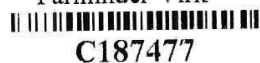
Received At

Lab

10-Nov-21 15:51

Parminder Virk

Labeled By



C187477

Verified By

AIN INS-0019

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	16.0	16.0	16.0
Y	Y	N	16	16	15
Drinking Water Metals Preservation Check Done (Circle) YES NO					

COR FCD-00383/3

Page 1 of 1



eCOC: W43665



Project Information: C187477
Job Received: 2021/11/10 15:51
Results Required By: 2021/11/17 15:00
Expected Arrival: 2021/11/10 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/17 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
IF-AL-01	1	2021/11/05 09:25	SOIL	1	A
IF-AL-02	2	2021/11/05 09:29	SOIL	1	A
IF-AL-03	3	2021/11/05 09:31	SOIL	1	A
IF-AL-04	4	2021/11/05 09:34	SOIL	1	A
IF-AL-05	5	2021/11/05 09:37	SOIL	1	A
IF-AL-06	6	2021/11/05 09:40	SOIL	1	A
IF-AL-07	7	2021/11/05 09:43	SOIL	1	A
IF-AL-08	8	2021/11/05 09:46	SOIL	1	A
IF-PL-01	9	2021/11/05 09:58	SOIL	1	A
IF-PL-02	10	2021/11/05 10:02	SOIL	1	A
IF-PL-03	11	2021/11/05 10:05	SOIL	1	A
IF-PL-04	12	2021/11/05 10:09	SOIL	1	A
IF-PL-05	13	2021/11/05 10:12	SOIL	1	A
IF-PL-06	14	2021/11/05 10:15	SOIL	1	A
IF-PL-07	15	2021/11/05 10:19	SOIL	1	A
IF-PL-08	16	2021/11/05 10:22	SOIL	1	A
IF-ML-01	17	2021/11/05 10:45	SOIL	1	A
IF-ML-01D	18	2021/11/05 10:45	SOIL	1	A



eCOC: W43665



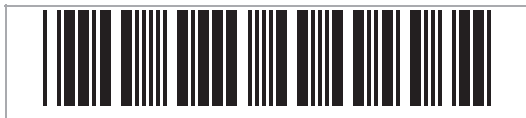
Project Information: C187477
Job Received: 2021/11/10 15:51
Results Required By: 2021/11/17 15:00
Expected Arrival: 2021/11/10 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/17 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
IF-ML-02	19	2021/11/05 10:50	SOIL	1	A
IF-ML-03	20	2021/11/05 10:53	SOIL	1	A
IF-ML-04	21	2021/11/05 10:55	SOIL	1	A
IF-ML-05	22	2021/11/05 10:58	SOIL	1	A
IF-ML-06	23	2021/11/05 11:02	SOIL	1	A
IF-ML-07	24	2021/11/05 11:05	SOIL	1	A
IF-ML-08	25	2021/11/05 11:06	SOIL	1	A
IF-FS-01	26	2021/11/05 11:20	SOIL	1	A
IF-FS-02	27	2021/11/05 11:24	SOIL	1	A
IF-FS-03	28	2021/11/05 11:28	SOIL	1	A
IF-FS-04	29	2021/11/05 11:32	SOIL	1	A
IF-FS-05	30	2021/11/05 11:35	SOIL	1	A
IF-FS-05D	31	2021/11/05 11:35	SOIL	1	A
IF-FS-06	32	2021/11/05 11:42	SOIL	1	A
IF-FS-07	33	2021/11/05 11:45	SOIL	1	A
IF-FS-08	34	2021/11/05 11:48	SOIL	1	A
IF-FS-09	35	2021/11/05 11:55	SOIL	1	A
IF-FS-10	36	2021/11/05 12:00	SOIL	1	A
IF-IS-01	37	2021/11/05 13:33	SOIL	1	A
IF-IS-02	38	2021/11/05 13:36	SOIL	1	A
IF-IS-03	39	2021/11/05 13:38	SOIL	1	A
IF-IS-04	40	2021/11/05 13:40	SOIL	1	A
IF-IS-05	41	2021/11/05 13:43	SOIL	1	A



eCOC: W43665



Project Information: C187477
Job Received: 2021/11/10 15:51
Results Required By: 2021/11/17 15:00
Expected Arrival: 2021/11/10 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/17 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
IF-IS-06	42	2021/11/05 13:52	SOIL	1	A
IF-IS-07	43	2021/11/05 13:45	SOIL	1	A
IF-IS-08	44	2021/11/05 13:49	SOIL	1	A
IF-IS-09	45	2021/11/05 13:55	SOIL	1	A
IF-IS-10	46	2021/11/05 14:00	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 46

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/09

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C188315

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: N/A

Is Chain of Custody completed and signed (Yes/No)?: Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: Yes

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43765

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/10
Report #: R3106082
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C188315

Received: 2021/11/16, 14:30

Sample Matrix: Soil
Samples Received: 60

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	29	2021/11/19	2021/11/20	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	18	2021/11/19	2021/11/21	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	11	2021/11/20	2021/11/20	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	2	2021/11/20	2021/11/21	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43765

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/10
Report #: R3106082
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C188315

Received: 2021/11/16, 14:30

Encryption Key

Parminder Virk
Key Account Specialist
10 Dec 2021 16:17:06

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C188315

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKT045	AKT046	AKT047	AKT048		AKT049		
Sampling Date		2021/11/09 09:45	2021/11/09 09:48	2021/11/09 09:51	2021/11/09 09:54		2021/11/09 09:57		
COC Number		43765	43765	43765	43765		43765		
	UNITS	TP-KP-01	TP-KP-02	TP-KP-03	TP-KP-04	QC Batch	TP-KP-05	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	23	17	13	16	A432709	17	0.50	A432391
RDL = Reportable Detection Limit									

Bureau Veritas ID		AKT050			AKT051	AKT052			AKT053	AKT054		
Sampling Date		2021/11/09 10:00			2021/11/09 10:04	2021/11/09 10:08			2021/11/09 10:12	2021/11/09 10:20		
COC Number		43765			43765	43765			43765	43765		
	UNITS	TP-KP-06	RDL	QC Batch	TP-KP-07	TP-KP-08	RDL	QC Batch	TP-KP-09	TP-KP-10	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	3.1	1.0	A432838	16	17	0.50	A432709	7.8	35	1.0	A432838
RDL = Reportable Detection Limit												

Bureau Veritas ID		AKT055			AKT056	AKT057	AKT058	AKT059		
Sampling Date		2021/11/09 10:15			2021/11/09 10:30	2021/11/09 10:33	2021/11/09 10:36	2021/11/09 10:39		
COC Number		43765			43765	43765	43765	43765		
	UNITS	TP-KP-11	RDL	QC Batch	TP-AF-01	TP-AF-02	TP-AF-03	TP-AF-04	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	9.0	0.50	A432709	12	25	10	9.9	1.0	A432838
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKT060	AKT061	AKT062		AKT063	AKT064		
Sampling Date		2021/11/09 10:42	2021/11/09 10:45	2021/11/09 10:48		2021/11/09 10:51	2021/11/09 10:53		
COC Number		43765	43765	43765		43765	43765		
	UNITS	TP-AF-05	TP-AF-06	TP-AF-07	QC Batch	TP-AF-08	TP-AF-09	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	14	17	13	A432709	16	12	0.50	A432682
RDL = Reportable Detection Limit									

Bureau Veritas ID		AKT065		AKT066			AKT067			AKT068		
Sampling Date		2021/11/09 11:15		2021/11/09 11:18			2021/11/09 11:21			2021/11/09 11:24		
COC Number		43765		43765			43765			43765		
	UNITS	TP-EP-01	QC Batch	TP-EP-02	RDL	QC Batch	TP-EP-03	RDL	QC Batch	TP-EP-04	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	14	A432709	17	0.50	A432682	25	1.0	A432838	11	0.50	A432682
RDL = Reportable Detection Limit												

BUREAU
VERITAS

Bureau Veritas Job #: C188315

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKT069			AKT070			AKT071	AKT072		
Sampling Date		2021/11/09 11:24			2021/11/09 11:29			2021/11/09 11:32	2021/11/09 11:35		
COC Number		43765			43765			43765	43765		
	UNITS	TP-EP-04D	RDL	QC Batch	TP-EP-05	RDL	QC Batch	TP-EP-06	TP-EP-07	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	13	0.50	A432682	11	1.0	A432840	12	10	0.50	A432391
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKT073			AKT074			AKT075		
Sampling Date		2021/11/09 11:38			2021/11/09 11:41			2021/11/09 12:15		
COC Number		43765			43765			43765		
	UNITS	TP-EP-08	RDL	QC Batch	TP-EP-09	RDL	QC Batch	TP-FP-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	14	1.0	A432838	12	0.50	A432709	23	1.0	A432840
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKT076	AKT077		AKT078	AKT079		AKT080		
Sampling Date		2021/11/09 12:18	2021/11/09 12:21		2021/11/09 12:24	2021/11/09 12:27		2021/11/09 12:27		
COC Number		43765	43765		43765	43765		43765		
	UNITS	TP-FP-02	TP-FP-03	QC Batch	TP-FP-04	TP-FP-05	QC Batch	TP-FP-05D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	20	10	A432391	14	19	A432709	19	0.50	A432391
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKT081	AKT082		AKT083	AKT084			AKT085		
Sampling Date		2021/11/09 12:33	2021/11/09 12:36		2021/11/09 12:38	2021/11/09 12:40			2021/11/09 14:20		
COC Number		43765	43765		43765	43765			43765		
	UNITS	TP-FP-06	TP-FP-07	QC Batch	TP-FP-08	TP-FP-09	RDL	QC Batch	TP-TP-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	17	19	A432391	9.9	20	0.50	A432709	21	1.0	A432707
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKT086	AKT087	AKT088		AKT089		AKT090	AKT091		
Sampling Date		2021/11/09 14:24	2021/11/09 14:28	2021/11/09 14:32		2021/11/09 14:36		2021/11/09 14:40	2021/11/09 14:44		
COC Number		43765	43765	43765		43765		43765	43765		
	UNITS	TP-TP-02	TP-TP-03	TP-TP-04	RDL	TP-TP-05	RDL	TP-TP-06	TP-TP-07	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	22	20	17	1.0	4.6	0.50	12	10	1.0	A432707
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C188315

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKT092	AKT093	AKT094	AKT095	AKT096			AKT097		
Sampling Date		2021/11/09 14:48	2021/11/09 14:52	2021/11/09 14:56	2021/11/09 15:00	2021/11/09 15:02			2021/11/09 15:06		
COC Number		43765	43765	43765	43765	43765			43765		
	UNITS	TP-TP-08	TP-TP-09	TP-TP-10	TP-TP-11	TP-TP-12	RDL	QC Batch	TP-TP-13	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	6.5	4.1	2.7	15	20	1.0	A432707	17	0.50	A432709
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKT098	AKT099	AKT100		AKT101			AKT102		
Sampling Date		2021/11/09 15:10	2021/11/09 15:14	2021/11/09 15:20		2021/11/09 15:20			2021/11/09 15:30		
COC Number		43765	43765	43765		43765			43765		
	UNITS	TP-TP-14	TP-TP-15	TP-TP-16	QC Batch	TP-TP-16D	RDL	QC Batch	TP-TP-17	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	4.0	24	22	A432709	18	0.50	A432391	21	1.0	A432707
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKT103	AKT104		
Sampling Date		2021/11/09 15:40	2021/11/09 15:44		
COC Number		43765	43765		
	UNITS	TP-TP-18	TP-TP-19	RDL	QC Batch
Elements					
Total Lead (Pb)	mg/kg	15	12	1.0	A432707
RDL = Reportable Detection Limit					



GENERAL COMMENTS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKT050 [TP-KP-06] Lead: Detection limits raised due to sample matrix.
Sample AKT053 [TP-KP-09] Lead: Detection limits raised due to sample matrix.
Sample AKT054 [TP-KP-10] Lead: Detection limits raised due to sample matrix.
Sample AKT056 [TP-AF-01] Lead: Detection limits raised due to sample matrix.
Sample AKT057 [TP-AF-02] Lead: Detection limits raised due to sample matrix.
Sample AKT058 [TP-AF-03] Lead: Detection limits raised due to sample matrix.
Sample AKT059 [TP-AF-04] Lead: Detection limits raised due to sample matrix.
Sample AKT067 [TP-EP-03] Lead: Detection limits raised due to sample matrix.
Sample AKT070 [TP-EP-05] Lead: Detection limits raised due to sample matrix.
Sample AKT073 [TP-EP-08] Lead: Detection limits raised due to sample matrix.
Sample AKT075 [TP-FP-01] Lead: Detection limits raised due to sample matrix.
Sample AKT085 [TP-TP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT086 [TP-TP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT087 [TP-TP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT088 [TP-TP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT090 [TP-TP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT091 [TP-TP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT092 [TP-TP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT093 [TP-TP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT094 [TP-TP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT095 [TP-TP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT096 [TP-TP-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT102 [TP-TP-17] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT103 [TP-TP-18] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT104 [TP-TP-19] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C188315

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A432391	KH2	Matrix Spike [AKT049-01]	Total Lead (Pb)	2021/11/20		92	%	75 - 125
A432391	KH2	QC Standard	Total Lead (Pb)	2021/11/20		118	%	79 - 121
A432391	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		101	%	80 - 120
A432391	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432391	KH2	RPD [AKT049-01]	Total Lead (Pb)	2021/11/20	9.3		%	35
A432682	KH2	Matrix Spike [AKT066-01]	Total Lead (Pb)	2021/11/20		87	%	75 - 125
A432682	KH2	QC Standard	Total Lead (Pb)	2021/11/20		121	%	79 - 121
A432682	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		101	%	80 - 120
A432682	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432682	KH2	RPD [AKT066-01]	Total Lead (Pb)	2021/11/20	4.6		%	35
A432707	KH2	Matrix Spike	Total Lead (Pb)	2021/11/20		105	%	75 - 125
A432707	KH2	QC Standard	Total Lead (Pb)	2021/11/20		119	%	79 - 121
A432707	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		103	%	80 - 120
A432707	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432707	KH2	RPD	Total Lead (Pb)	2021/11/20	5.4		%	35
A432709	KH2	Matrix Spike [AKT045-01]	Total Lead (Pb)	2021/11/21		83	%	75 - 125
A432709	KH2	QC Standard	Total Lead (Pb)	2021/11/21		111	%	79 - 121
A432709	KH2	Spiked Blank	Total Lead (Pb)	2021/11/21		98	%	80 - 120
A432709	KH2	Method Blank	Total Lead (Pb)	2021/11/21	<0.50		mg/kg	
A432709	KH2	RPD [AKT045-01]	Total Lead (Pb)	2021/11/21	8.7		%	35
A432838	KH2	Matrix Spike [AKT073-01]	Total Lead (Pb)	2021/11/20		103	%	75 - 125
A432838	KH2	QC Standard	Total Lead (Pb)	2021/11/20		115	%	79 - 121
A432838	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		103	%	80 - 120
A432838	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432838	KH2	RPD [AKT073-01]	Total Lead (Pb)	2021/11/20	1.8		%	35
A432840	KH2	Matrix Spike	Total Lead (Pb)	2021/11/20		94	%	75 - 125
A432840	KH2	QC Standard	Total Lead (Pb)	2021/11/20		103	%	79 - 121
A432840	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		102	%	80 - 120
A432840	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432840	KH2	RPD	Total Lead (Pb)	2021/11/20	4.2		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C188315

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "L. Thum".

Lisa Thum, C.E.T., QP, Senior Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form

773



W43765

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: TP-KP-01
Last Sample: TP-TP-19
Sample Count: 60

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/16	Amanjit Brar		Date	2021/11/16
		Time (24 HR)	12:00			Time (24 HR)	1430
		Date		Reem Phillipos		Date	2021/11/17
		Time (24 HR)				Time (24 HR)	08:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Shane Barry

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C188315

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	18.0	18.0	18.0
Y	Y	N	13	14	14
Y	Y	N	15	15	16
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43765



Project Information: C188315
Job Received: 2021/11/17 10:44
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

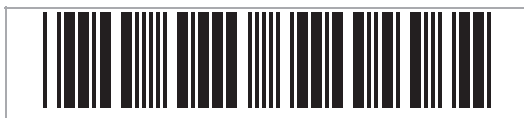
Analytical Summary

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-KP-01	1	2021/11/09 09:45	SOIL	1	A
TP-KP-02	2	2021/11/09 09:48	SOIL	1	A
TP-KP-03	3	2021/11/09 09:51	SOIL	1	A
TP-KP-04	4	2021/11/09 09:54	SOIL	1	A
TP-KP-05	5	2021/11/09 09:57	SOIL	1	A
TP-KP-06	6	2021/11/09 10:00	SOIL	1	A
TP-KP-07	7	2021/11/09 10:04	SOIL	1	A
TP-KP-08	8	2021/11/09 10:08	SOIL	1	A
TP-KP-09	9	2021/11/09 10:12	SOIL	1	A
TP-KP-10	10	2021/11/09 10:20	SOIL	1	A
TP-KP-11	11	2021/11/09 10:15	SOIL	1	A
TP-AF-01	12	2021/11/09 10:30	SOIL	1	A
TP-AF-02	13	2021/11/09 10:33	SOIL	1	A
TP-AF-03	14	2021/11/09 10:36	SOIL	1	A
TP-AF-04	15	2021/11/09 10:39	SOIL	1	A
TP-AF-05	16	2021/11/09 10:42	SOIL	1	A
TP-AF-06	17	2021/11/09 10:45	SOIL	1	A
TP-AF-07	18	2021/11/09 10:48	SOIL	1	A



eCOC: W43765



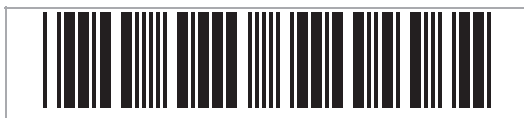
Project Information: C188315
Job Received: 2021/11/17 10:44
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-AF-08	19	2021/11/09 10:51	SOIL	1	A
TP-AF-09	20	2021/11/09 10:53	SOIL	1	A
TP-EP-01	21	2021/11/09 11:15	SOIL	1	A
TP-EP-02	22	2021/11/09 11:18	SOIL	1	A
TP-EP-03	23	2021/11/09 11:21	SOIL	1	A
TP-EP-04	24	2021/11/09 11:24	SOIL	1	A
TP-EP-04D	25	2021/11/09 11:24	SOIL	1	A
TP-EP-05	26	2021/11/09 11:29	SOIL	1	A
TP-EP-06	27	2021/11/09 11:32	SOIL	1	A
TP-EP-07	28	2021/11/09 11:35	SOIL	1	A
TP-EP-08	29	2021/11/09 11:38	SOIL	1	A
TP-EP-09	30	2021/11/09 11:41	SOIL	1	A
TP-FP-01	31	2021/11/09 12:15	SOIL	1	A
TP-FP-02	32	2021/11/09 12:18	SOIL	1	A
TP-FP-03	33	2021/11/09 12:21	SOIL	1	A
TP-FP-04	34	2021/11/09 12:24	SOIL	1	A
TP-FP-05	35	2021/11/09 12:27	SOIL	1	A
TP-FP-05D	36	2021/11/09 12:27	SOIL	1	A
TP-FP-06	37	2021/11/09 12:33	SOIL	1	A
TP-FP-07	38	2021/11/09 12:36	SOIL	1	A
TP-FP-08	39	2021/11/09 12:38	SOIL	1	A
TP-FP-09	40	2021/11/09 12:40	SOIL	1	A
TP-TP-01	41	2021/11/09 14:20	SOIL	1	A



eCOC: W43765



Project Information: C188315
Job Received: 2021/11/17 10:44
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-TP-02	42	2021/11/09 14:24	SOIL	1	A
TP-TP-03	43	2021/11/09 14:28	SOIL	1	A
TP-TP-04	44	2021/11/09 14:32	SOIL	1	A
TP-TP-05	45	2021/11/09 14:36	SOIL	1	A
TP-TP-06	46	2021/11/09 14:40	SOIL	1	A
TP-TP-07	47	2021/11/09 14:44	SOIL	1	A
TP-TP-08	48	2021/11/09 14:48	SOIL	1	A
TP-TP-09	49	2021/11/09 14:52	SOIL	1	A
TP-TP-10	50	2021/11/09 14:56	SOIL	1	A
TP-TP-11	51	2021/11/09 15:00	SOIL	1	A
TP-TP-12	52	2021/11/09 15:02	SOIL	1	A
TP-TP-13	53	2021/11/09 15:06	SOIL	1	A
TP-TP-14	54	2021/11/09 15:10	SOIL	1	A
TP-TP-15	55	2021/11/09 15:14	SOIL	1	A
TP-TP-16	56	2021/11/09 15:20	SOIL	1	A
TP-TP-16D	57	2021/11/09 15:20	SOIL	1	A
TP-TP-17	58	2021/11/09 15:30	SOIL	1	A
TP-TP-18	59	2021/11/09 15:40	SOIL	1	A
TP-TP-19	60	2021/11/09 15:44	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 60

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/08

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C188379

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43761

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/10
Report #: R3106222
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C188379

Received: 2021/11/16, 14:30

Sample Matrix: Soil
Samples Received: 77

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	30	2021/11/19	2021/11/20	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	29	2021/11/20	2021/11/20	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	18	2021/11/22	2021/11/22	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43761

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/10
Report #: R3106222
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C188379

Received: 2021/11/16, 14:30

Encryption Key

Parminder Virk
Key Account Specialist
10 Dec 2021 17:18:39

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C188379
Report Date: 2021/12/10

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKT603	AKT604	AKT605	AKT606			AKT607		
Sampling Date		2021/11/08 10:35	2021/11/08 10:40	2021/11/08 10:45	2021/11/08 10:50			2021/11/08 10:55		
COC Number		43761	43761	43761	43761			43761		
	UNITS	TP-WP-01	TP-WP-02	TP-WP-03	TP-WP-04	RDL	QC Batch	TP-WP-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	32	71	59	120	1.0	A432840	77	0.50	A432682

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT608	AKT609	AKT610			AKT611	AKT612	AKT613		
Sampling Date		2021/11/08 11:05	2021/11/08 11:00	2021/11/08 11:00			2021/11/08 11:10	2021/11/08 11:15	2021/11/08 11:20		
COC Number		43761	43761	43761			43761	43761	43761		
	UNITS	TP-WP-06	TP-WP-07	TP-WP-07D	RDL	QC Batch	TP-WP-08	TP-WP-09	TP-WP-10	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	66	89	73	1.0	A432840	60	57	30	0.50	A432682

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT614		AKT615	AKT616	AKT617	AKT618	AKT619		
Sampling Date		2021/11/08 11:25		2021/11/08 11:40	2021/11/08 11:45	2021/11/08 11:50	2021/11/08 12:15	2021/11/08 11:55		
COC Number		43761		43761	43761	43761	43761	43761		
	UNITS	TP-WP-11	QC Batch	TP-GC-01	TP-GC-02	TP-GC-03	TP-GC-04	TP-GC-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	58	A432682	32	36	49	34	42	0.50	A432391

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT620	AKT621		AKT622	AKT623	AKT624		
Sampling Date		2021/11/08 12:00	2021/11/08 12:05		2021/11/08 12:10	2021/11/08 12:20	2021/11/08 12:25		
COC Number		43761	43761		43761	43761	43761		
	UNITS	TP-GC-06	TP-GC-07	QC Batch	TP-GC-08	TP-GC-09	TP-GC-10	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	32	68	A432391	14	46	20	0.50	A432682

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT625	AKT626			AKT627	AKT628			AKT629		
Sampling Date		2021/11/08 13:05	2021/11/08 13:10			2021/11/08 13:10	2021/11/08 13:15			2021/11/08 13:20		
COC Number		43761	43761			43761	43761			43761		
	UNITS	TP-TS-01	TP-TS-02	RDL	QC Batch	TP-TS-02D	TP-TS-03	RDL	QC Batch	TP-TS-04	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	20	20	0.50	A432391	21	14	1.0	A432840	4.3	0.50	A432391

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C188379
Report Date: 2021/12/10

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKT630	AKT631	AKT632	AKT633			AKT634		
Sampling Date		2021/11/08 13:27	2021/11/08 13:35	2021/11/08 13:40	2021/11/08 13:45			2021/11/08 14:05		
COC Number		43761	43761	43761	43761			43761		
	UNITS	TP-TS-05	TP-TS-06	TP-TS-07	TP-TS-08	RDL	QC Batch	TP-GG-01	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	24	17	18	22	1.0	A432840	26	0.50	A432391

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT635	AKT636	AKT637		AKT638		AKT639		
Sampling Date		2021/11/08 14:10	2021/11/08 14:15	2021/11/08 14:20		2021/11/08 14:25		2021/11/08 14:30		
COC Number		43761	43761	43761		43761		43761		
	UNITS	TP-GG-02	TP-GG-03	TP-GG-04	RDL	TP-GG-05	RDL	TP-GG-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	23	20	11	1.0	6.8	0.50	24	1.0	A432840

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT640			AKT641	AKT642	AKT643	AKT644	AKT645		
Sampling Date		2021/11/08 14:35			2021/11/08 14:40	2021/11/08 14:45	2021/11/08 14:50	2021/11/08 15:05	2021/11/08 15:10		
COC Number		43761			43761	43761	43761	43761	43761		
	UNITS	TP-GG-07	RDL	QC Batch	TP-GG-08	TP-GG-09	TP-GG-10	TP-FW-01	TP-FW-02	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	21	0.50	A432682	13	10	18	17	14	1.0	A438294

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT646	AKT647	AKT648	AKT649	AKT650	AKT651	AKT652		
Sampling Date		2021/11/08 15:07	2021/11/08 15:15	2021/11/08 15:20	2021/11/08 15:20	2021/11/08 15:28	2021/11/08 15:32	2021/11/08 15:35		
COC Number		43761	43761	43761	43761	43761	43761	43761		
	UNITS	TP-FW-03	TP-FW-04	TP-FW-05	TP-FW-05D	TP-FW-06	TP-FW-07	TP-FW-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	22	13	13	12	12	2.6	14	1.0	A438294

RDL = Reportable Detection Limit

Bureau Veritas ID		AKT653	AKT654	AKT655	AKT656		AKT657		
Sampling Date		2021/11/08 15:40	2021/11/08 15:45	2021/11/08 15:48	2021/11/08 15:52		2021/11/08 15:55		
COC Number		43761	43761	43761	43761		43761		
	UNITS	TP-FW-09	TP-SK-01	TP-SK-02	TP-SK-03	QC Batch	TP-SK-04	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	12	13	11	12	A438294	15	1.0	A432838

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C188379

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKT658			AKT659			AKT660		
Sampling Date		2021/11/08 16:01			2021/11/08 16:04			2021/11/08 16:07		
COC Number		43761			43761			43761		
	UNITS	TP-GS-01	RDL	QC Batch	TP-GS-02	RDL	QC Batch	TP-GS-03	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	12	1.0	A432707	11	0.50	A432682	7.1	1.0	A432707
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKT661			AKT662		AKT663	AKT664	AKT665		
Sampling Date		2021/11/08 16:10			2021/11/08 16:13		2021/11/08 16:16	2021/11/08 16:19	2021/11/08 16:25		
COC Number		43761			43761		43761	43761	43761		
	UNITS	TP-GS-04	RDL	QC Batch	TP-GS-05	QC Batch	TP-GS-06	TP-GS-07	TP-GS-08	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	9.4	0.50	A432682	11	A432707	130	45	27	1.0	A432838
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKT666			AKT667			AKT668	AKT669	AKT670		
Sampling Date		2021/11/08 16:28			2021/11/08 16:40			2021/11/08 16:43	2021/11/08 16:45	2021/11/08 16:47		
COC Number		43761			43761			43761	43761	43761		
	UNITS	TP-GS-09	RDL	QC Batch	TP-PR-01	RDL	QC Batch	TP-PR-02	TP-PR-03	TP-PR-04	RDL	QC Batch
Elements												
Total Lead (Pb)	mg/kg	30	1.0	A432838	21	0.50	A432682	16	14	15	1.0	A432838
RDL = Reportable Detection Limit												

Bureau Veritas ID		AKT671			AKT672	AKT673	AKT674		AKT675		
Sampling Date		2021/11/08 16:50			2021/11/08 16:53	2021/11/08 16:55	2021/11/08 16:55		2021/11/08 17:02		
COC Number		43761			43761	43761	43761		43761		
	UNITS	TP-PR-05	RDL	QC Batch	TP-PR-06	TP-PR-07	TP-PR-07D	QC Batch	TP-PR-08	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	14	0.50	A432682	16	11	15	A432838	16	1.0	A432707
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKT676	AKT677			AKT678	AKT679		
Sampling Date		2021/11/08 17:05	2021/11/08 17:10			2021/11/08 17:15	2021/11/08 17:18		
COC Number		43761	43761			43761	43761		
	UNITS	TP-PR-09	TP-PR-10	RDL	QC Batch	TP-PR-11	TP-PR-12	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	18	21	0.50	A432682	18	69	1.0	A438294
RDL = Reportable Detection Limit									



BUREAU
VERITAS

Bureau Veritas Job #: C188379

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.8°C
-----------	--------



ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKT603 [TP-WP-01] Lead: Detection limits raised due to sample matrix.
Sample AKT604 [TP-WP-02] Lead: Detection limits raised due to sample matrix.
Sample AKT605 [TP-WP-03] Lead: Detection limits raised due to sample matrix.
Sample AKT606 [TP-WP-04] Lead: Detection limits raised due to sample matrix.
Sample AKT608 [TP-WP-06] Lead: Detection limits raised due to sample matrix.
Sample AKT609 [TP-WP-07] Lead: Detection limits raised due to sample matrix.
Sample AKT610 [TP-WP-07D] Lead: Detection limits raised due to sample matrix.
Sample AKT627 [TP-TS-02D] Lead: Detection limits raised due to sample matrix.
Sample AKT628 [TP-TS-03] Lead: Detection limits raised due to sample matrix.
Sample AKT630 [TP-TS-05] Lead: Detection limits raised due to sample matrix.
Sample AKT631 [TP-TS-06] Lead: Detection limits raised due to sample matrix.
Sample AKT632 [TP-TS-07] Lead: Detection limits raised due to sample matrix.
Sample AKT633 [TP-TS-08] Lead: Detection limits raised due to sample matrix.
Sample AKT635 [TP-GG-02] Lead: Detection limits raised due to sample matrix.
Sample AKT636 [TP-GG-03] Lead: Detection limits raised due to sample matrix.
Sample AKT637 [TP-GG-04] Lead: Detection limits raised due to sample matrix.
Sample AKT639 [TP-GG-06] Lead: Detection limits raised due to sample matrix.
Sample AKT641 [TP-GG-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT642 [TP-GG-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT643 [TP-GG-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT644 [TP-FW-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT645 [TP-FW-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT646 [TP-FW-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT647 [TP-FW-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT648 [TP-FW-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT649 [TP-FW-05D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT650 [TP-FW-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT651 [TP-FW-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT652 [TP-FW-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT653 [TP-FW-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT654 [TP-SK-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT655 [TP-SK-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT656 [TP-SK-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT657 [TP-SK-04] Lead: Detection limits raised due to sample matrix.
Sample AKT658 [TP-GS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT660 [TP-GS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT662 [TP-GS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT663 [TP-GS-06] Lead: Detection limits raised due to sample matrix.
Sample AKT664 [TP-GS-07] Lead: Detection limits raised due to sample matrix.
Sample AKT665 [TP-GS-08] Lead: Detection limits raised due to sample matrix.
Sample AKT666 [TP-GS-09] Lead: Detection limits raised due to sample matrix.
Sample AKT668 [TP-PR-02] Lead: Detection limits raised due to sample matrix.
Sample AKT669 [TP-PR-03] Lead: Detection limits raised due to sample matrix.
Sample AKT670 [TP-PR-04] Lead: Detection limits raised due to sample matrix.
Sample AKT672 [TP-PR-06] Lead: Detection limits raised due to sample matrix.
Sample AKT673 [TP-PR-07] Lead: Detection limits raised due to sample matrix.
Sample AKT674 [TP-PR-07D] Lead: Detection limits raised due to sample matrix.
Sample AKT675 [TP-PR-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT678 [TP-PR-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKT679 [TP-PR-12] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C188379

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB



BUREAU
VERITAS

Bureau Veritas Job #: C188379

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A432391	KH2	Matrix Spike	Total Lead (Pb)	2021/11/20		92	%	75 - 125
A432391	KH2	QC Standard	Total Lead (Pb)	2021/11/20		118	%	79 - 121
A432391	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		101	%	80 - 120
A432391	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432391	KH2	RPD	Total Lead (Pb)	2021/11/20	9.3		%	35
A432682	KH2	Matrix Spike	Total Lead (Pb)	2021/11/20		87	%	75 - 125
A432682	KH2	QC Standard	Total Lead (Pb)	2021/11/20		121	%	79 - 121
A432682	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		101	%	80 - 120
A432682	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432682	KH2	RPD	Total Lead (Pb)	2021/11/20	4.6		%	35
A432707	KH2	Matrix Spike [AKT675-01]	Total Lead (Pb)	2021/11/20		105	%	75 - 125
A432707	KH2	QC Standard	Total Lead (Pb)	2021/11/20		119	%	79 - 121
A432707	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		103	%	80 - 120
A432707	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432707	KH2	RPD [AKT675-01]	Total Lead (Pb)	2021/11/20	5.4		%	35
A432838	KH2	Matrix Spike	Total Lead (Pb)	2021/11/20		103	%	75 - 125
A432838	KH2	QC Standard	Total Lead (Pb)	2021/11/20		115	%	79 - 121
A432838	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		103	%	80 - 120
A432838	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432838	KH2	RPD	Total Lead (Pb)	2021/11/20	1.8		%	35
A432840	KH2	Matrix Spike [AKT630-01]	Total Lead (Pb)	2021/11/20		94	%	75 - 125
A432840	KH2	QC Standard	Total Lead (Pb)	2021/11/20		103	%	79 - 121
A432840	KH2	Spiked Blank	Total Lead (Pb)	2021/11/20		102	%	80 - 120
A432840	KH2	Method Blank	Total Lead (Pb)	2021/11/20	<0.50		mg/kg	
A432840	KH2	RPD [AKT630-01]	Total Lead (Pb)	2021/11/20	4.2		%	35
A438294	MFP	Matrix Spike [AKT653-01]	Total Lead (Pb)	2021/11/22		85	%	75 - 125
A438294	MFP	QC Standard	Total Lead (Pb)	2021/11/22		99	%	79 - 121
A438294	MFP	Spiked Blank	Total Lead (Pb)	2021/11/22		95	%	80 - 120
A438294	MFP	Method Blank	Total Lead (Pb)	2021/11/22	<0.50		mg/kg	
A438294	MFP	RPD [AKT653-01]	Total Lead (Pb)	2021/11/22	2.0		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C188379

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "L. Thum".

Lisa Thum, C.E.T., QP, Senior Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43761

774

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: TP-WP-01
Last Sample: TP-PR-12
Sample Count: 77

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/16	Amarjit Bawa		Date	2021/11/16
		Time (24 HR)	12:00			Time (24 HR)	1430
		Date		Reem Phillipos		Date	2021/11/17
		Time (24 HR)				Time (24 HR)	08:30
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Shane Barry

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab

16-Nov-21 14:30

Labeled By

Parminder Virk
C188379

Verified By

KMV INS-0099

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	17.6	17.7	17.9
Y	Y	N	10	12	12
Y	Y	N	16	15	15
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43761



Project Information: C188379
Job Received: 2021/11/16 14:30
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

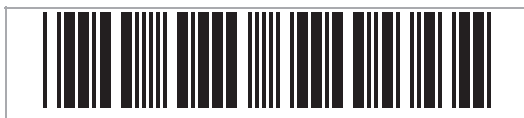
Analytical Summary

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-WP-01	1	2021/11/08 10:35	SOIL	1	A
TP-WP-02	2	2021/11/08 10:40	SOIL	1	A
TP-WP-03	3	2021/11/08 10:45	SOIL	1	A
TP-WP-04	4	2021/11/08 10:50	SOIL	1	A
TP-WP-05	5	2021/11/08 10:55	SOIL	1	A
TP-WP-06	6	2021/11/08 11:05	SOIL	1	A
TP-WP-07	7	2021/11/08 11:00	SOIL	1	A
TP-WP-07D	8	2021/11/08 11:00	SOIL	1	A
TP-WP-08	9	2021/11/08 11:10	SOIL	1	A
TP-WP-09	10	2021/11/08 11:15	SOIL	1	A
TP-WP-10	11	2021/11/08 11:20	SOIL	1	A
TP-WP-11	12	2021/11/08 11:25	SOIL	1	A
TP-GC-01	13	2021/11/08 11:40	SOIL	1	A
TP-GC-02	14	2021/11/08 11:45	SOIL	1	A
TP-GC-03	15	2021/11/08 11:50	SOIL	1	A
TP-GC-04	16	2021/11/08 12:15	SOIL	1	A
TP-GC-05	17	2021/11/08 11:55	SOIL	1	A
TP-GC-06	18	2021/11/08 12:00	SOIL	1	A



eCOC: W43761



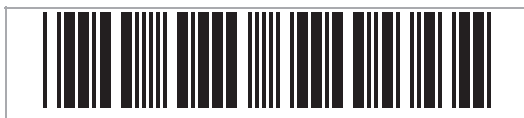
Project Information: C188379
Job Received: 2021/11/16 14:30
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-GC-07	19	2021/11/08 12:05	SOIL	1	A
TP-GC-08	20	2021/11/08 12:10	SOIL	1	A
TP-GC-09	21	2021/11/08 12:20	SOIL	1	A
TP-GC-10	22	2021/11/08 12:25	SOIL	1	A
TP-TS-01	23	2021/11/08 13:05	SOIL	1	A
TP-TS-02	24	2021/11/08 13:10	SOIL	1	A
TP-TS-02D	25	2021/11/08 13:10	SOIL	1	A
TP-TS-03	26	2021/11/08 13:15	SOIL	1	A
TP-TS-04	27	2021/11/08 13:20	SOIL	1	A
TP-TS-05	28	2021/11/08 13:27	SOIL	1	A
TP-TS-06	29	2021/11/08 13:35	SOIL	1	A
TP-TS-07	30	2021/11/08 13:40	SOIL	1	A
TP-TS-08	31	2021/11/08 13:45	SOIL	1	A
TP-GG-01	32	2021/11/08 14:05	SOIL	1	A
TP-GG-02	33	2021/11/08 14:10	SOIL	1	A
TP-GG-03	34	2021/11/08 14:15	SOIL	1	A
TP-GG-04	35	2021/11/08 14:20	SOIL	1	A
TP-GG-05	36	2021/11/08 14:25	SOIL	1	A
TP-GG-06	37	2021/11/08 14:30	SOIL	1	A
TP-GG-07	38	2021/11/08 14:35	SOIL	1	A
TP-GG-08	39	2021/11/08 14:40	SOIL	1	A
TP-GG-09	40	2021/11/08 14:45	SOIL	1	A
TP-GG-10	41	2021/11/08 14:50	SOIL	1	A



eCOC: W43761



Project Information: C188379
Job Received: 2021/11/16 14:30
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-FW-01	42	2021/11/08 15:05	SOIL	1	A
TP-FW-02	43	2021/11/08 15:10	SOIL	1	A
TP-FW-03	44	2021/11/08 15:07	SOIL	1	A
TP-FW-04	45	2021/11/08 15:15	SOIL	1	A
TP-FW-05	46	2021/11/08 15:20	SOIL	1	A
TP-FW-05D	47	2021/11/08 15:20	SOIL	1	A
TP-FW-06	48	2021/11/08 15:28	SOIL	1	A
TP-FW-07	49	2021/11/08 15:32	SOIL	1	A
TP-FW-08	50	2021/11/08 15:35	SOIL	1	A
TP-FW-09	51	2021/11/08 15:40	SOIL	1	A
TP-SK-01	52	2021/11/08 15:45	SOIL	1	A
TP-SK-02	53	2021/11/08 15:48	SOIL	1	A
TP-SK-03	54	2021/11/08 15:52	SOIL	1	A
TP-SK-04	55	2021/11/08 15:55	SOIL	1	A
TP-GS-01	56	2021/11/08 16:01	SOIL	1	A
TP-GS-02	57	2021/11/08 16:04	SOIL	1	A
TP-GS-03	58	2021/11/08 16:07	SOIL	1	A
TP-GS-04	59	2021/11/08 16:10	SOIL	1	A
TP-GS-05	60	2021/11/08 16:13	SOIL	1	A
TP-GS-06	61	2021/11/08 16:16	SOIL	1	A
TP-GS-07	62	2021/11/08 16:19	SOIL	1	A
TP-GS-08	63	2021/11/08 16:25	SOIL	1	A
TP-GS-09	64	2021/11/08 16:28	SOIL	1	A



eCOC: W43761



Project Information: C188379
Job Received: 2021/11/16 14:30
Results Required By: 2021/11/23 15:00
Expected Arrival: 2021/11/16 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/23 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
TP-PR-01	65	2021/11/08 16:40	SOIL	1	A
TP-PR-02	66	2021/11/08 16:43	SOIL	1	A
TP-PR-03	67	2021/11/08 16:45	SOIL	1	A
TP-PR-04	68	2021/11/08 16:47	SOIL	1	A
TP-PR-05	69	2021/11/08 16:50	SOIL	1	A
TP-PR-06	70	2021/11/08 16:53	SOIL	1	A
TP-PR-07	71	2021/11/08 16:55	SOIL	1	A
TP-PR-07D	72	2021/11/08 16:55	SOIL	1	A
TP-PR-08	73	2021/11/08 17:02	SOIL	1	A
TP-PR-09	74	2021/11/08 17:05	SOIL	1	A
TP-PR-10	75	2021/11/08 17:10	SOIL	1	A
TP-PR-11	76	2021/11/08 17:15	SOIL	1	A
TP-PR-12	77	2021/11/08 17:18	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 77

DATA QUALITY REVIEW CHECKLIST

Consultant: <u>Parsons Inc.</u>	Sampling Date: <u>2021/11/09 to 2021/11/10</u>
Location: <u>Winnipeg, Manitoba</u>	Laboratory : <u>Bureau Veritas, Calgary</u>
Consultant Project Number: <u>10-12553</u>	BV Labs Job Number: <u>C189363</u>

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: _____ Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: _____ Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: _____ Yes

Were all samples analyzed within hold times (Yes/No)?: _____ Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: _____ N/A

Is Chain of Custody completed and signed (Yes/No)?: _____ Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: _____ Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: _____ No

Is data considered to be reliable (Yes/No)?: _____ Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): <u>Adam Wiebe</u>	Data Reviewed by (Signature): <u>Adam Wiebe</u>
Review Date: <u>2022/01/11</u>	
Revision Date (if applicable): _____	Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43820

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/11
Report #: R3106567
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189363

Received: 2021/11/17, 16:48

Sample Matrix: Soil
Samples Received: 77

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	19	2021/11/04	2021/11/25	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	57	2021/11/24	2021/11/24	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	1	2021/11/24	2021/11/25	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43820

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/11
Report #: R3106567
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189363

Received: 2021/11/17, 16:48

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

11 Dec 2021 11:10:16

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C189363

Report Date: 2021/12/11

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKZ855	AKZ856	AKZ857			AKZ858	AKZ859		
Sampling Date		2021/11/09 13:26	2021/11/09 13:30	2021/11/09 13:30			2021/11/09 13:34	2021/11/09 13:38		
COC Number		43820	43820	43820			43820	43820		
	UNITS	MN-AM-01	MN-AM-02	MN-AM-02D	RDL	QC Batch	MN-AM-03	MN-AM-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	19	40	54	1.0	A438442	39	36	0.50	A438408

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ860			AKZ861			AKZ862		
Sampling Date		2021/11/09 13:42			2021/11/09 13:46			2021/11/09 13:50		
COC Number		43820			43820			43820		
	UNITS	MN-AM-05	RDL	QC Batch	MN-AM-06	RDL	QC Batch	MN-AM-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	45	1.0	A438442	43	0.50	A438408	47	1.0	A438397

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ863			AKZ864		AKZ865	AKZ866		
Sampling Date		2021/11/09 13:55			2021/11/09 16:10		2021/11/09 16:13	2021/11/09 16:13		
COC Number		43820			43820		43820	43820		
	UNITS	MN-AM-08	RDL	QC Batch	BK-SP-01	QC Batch	BK-SP-02	BK-SP-02D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	48	0.50	A438408	30	A438436	12	15	1.0	A438397

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ867	AKZ868	AKZ869	AKZ870	AKZ871		AKZ872		
Sampling Date		2021/11/09 16:16	2021/11/09 16:17	2021/11/09 16:19	2021/11/09 16:21	2021/11/09 16:24		2021/11/09 16:27		
COC Number		43820	43820	43820	43820	43820		43820		
	UNITS	BK-SP-03	BK-SP-04	BK-SP-05	BK-SP-06	BK-SP-07	QC Batch	BK-SP-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	34	11	6.7	7.2	17	A438436	14	1.0	A438397

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ873	AKZ874	AKZ875		AKZ876	AKZ877		
Sampling Date		2021/11/09 16:30	2021/11/09 16:35	2021/11/09 16:40		2021/11/09 16:43	2021/11/09 16:46		
COC Number		43820	43820	43820		43820	43820		
	UNITS	BK-SP-09	BK-SP-10	BK-SP-11	QC Batch	BK-SP-12	BK-SP-13	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	17	51	18	A438436	46	43	1.0	A438442

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C189363

Report Date: 2021/12/11

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKZ878			AKZ879	AKZ880	AKZ881	AKZ882	AKZ883		
Sampling Date		2021/11/09 16:50			2021/11/09 16:53	2021/11/09 16:57	2021/11/09 17:00	2021/11/09 17:05	2021/11/09 17:10		
COC Number		43820			43820	43820	43820	43820	43820		
	UNITS	BK-SP-14	RDL	QC Batch	BK-SP-15	BK-SP-16	BK-SP-17	BK-SP-18	BK-SP-19	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	16	0.50	A438408	47	21	11	40	23	1.0	A438442
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKZ884	AKZ885	AKZ886			AKZ887	AKZ888	AKZ889		
Sampling Date		2021/11/09 17:15	2021/11/10 12:05	2021/11/10 12:05			2021/11/10 12:08	2021/11/10 12:11	2021/11/10 12:14		
COC Number		43820	43820	43820			43820	43820	43820		
	UNITS	BK-SP-20	BK-SS-01	BK-SS-01D	RDL	QC Batch	BK-SS-02	BK-SS-03	BK-SS-04	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	30	34	59	1.0	A438442	28	36	28	0.50	A438408
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKZ890		AKZ891	AKZ892	AKZ893		AKZ894		
Sampling Date		2021/11/10 12:17		2021/11/10 12:20	2021/11/10 12:23	2021/11/10 12:30		2021/11/10 12:35		
COC Number		43820		43820	43820	43820		43820		
	UNITS	BK-SS-05	QC Batch	BK-SS-06	BK-SS-07	BK-SS-08	QC Batch	BK-SS-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	33	A438442	58	18	23	A438436	4.7	1.0	A438397
RDL = Reportable Detection Limit										

Bureau Veritas ID		AKZ895	AKZ896		AKZ897		AKZ898		AKZ899		
Sampling Date		2021/11/10 12:40	2021/11/10 10:00		2021/11/10 10:04		2021/11/10 10:08		2021/11/10 10:12		
COC Number		43820	43820		43820		43820		43820		
	UNITS	BK-SS-10	SP-RH-01	QC Batch	SP-RH-02	QC Batch	SP-RH-03	QC Batch	SP-RH-04	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	14	21	A438397	28	A438442	68	A438397	52	1.0	A438395
RDL = Reportable Detection Limit											

Bureau Veritas ID		AKZ900	AKZ901	AKZ902		AKZ903	AKZ904		
Sampling Date		2021/11/10 10:16	2021/11/10 10:16	2021/11/10 10:24		2021/11/10 10:28	2021/11/10 10:32		
COC Number		43820	43820	43820		43820	43820		
	UNITS	SP-RH-05	SP-RH-05D	SP-RH-06	QC Batch	SP-RH-07	SP-RH-08	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	7.3	16	30	A438442	19	56	1.0	A438436
RDL = Reportable Detection Limit									



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Bureau Veritas Job #: C189363

Report Date: 2021/12/11

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKZ905			AKZ906	AKZ907			AKZ908	AKZ909		
Sampling Date		2021/11/10 10:36			2021/11/10 10:40	2021/11/10 10:44			2021/11/10 10:46	2021/11/10 10:48		
COC Number		43820			43820	43820			43820	43820		
	UNITS	SP-RH-09	RDL	QC Batch	SP-RH-10	SP-NW-01	RDL	QC Batch	SP-NW-02	SP-NW-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	32	1.0	A438397	32	29	0.50	A438408	24	68	1.0	A438397
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ910	AKZ911	AKZ912		AKZ913		AKZ914		
Sampling Date		2021/11/10 10:50	2021/11/10 10:52	2021/11/10 10:55		2021/11/10 10:57		2021/11/10 11:00		
COC Number		43820	43820	43820		43820		43820		
	UNITS	SP-NW-04	SP-NW-05	SP-NW-06	QC Batch	SP-NW-07	QC Batch	SP-NW-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	52	30	19	A438397	72	A438395	69	1.0	A438442
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ915	AKZ916	AKZ917			AKZ918	AKZ919	AKZ920		
Sampling Date		2021/11/10 11:02	2021/11/10 11:04	2021/11/10 11:07			2021/11/10 11:10	2021/11/10 11:15	2021/11/10 11:26		
COC Number		43820	43820	43820			43820	43820	43820		
	UNITS	SP-NW-09	SP-NW-10	SP-NW-11	RDL	QC Batch	SP-NW-12	SP-NW-13	SP-LN-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	60	77	13	1.0	A438436	11	13	25	0.50	A438408
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ921	AKZ922			AKZ923			AKZ924	AKZ925		
Sampling Date		2021/11/10 11:29	2021/11/10 11:32			2021/11/10 11:35			2021/11/10 11:38	2021/11/10 11:41		
COC Number		43820	43820			43820			43820	43820		
	UNITS	SP-LN-02	SP-LN-03	RDL	QC Batch	SP-LN-04	RDL	QC Batch	SP-LN-05	SP-LN-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	16	19	0.50	A438408	15	1.0	A438397	14	76	0.50	A438408
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RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ926	AKZ927			AKZ928			AKZ929		
Sampling Date		2021/11/10 11:43	2021/11/10 11:47			2021/11/10 11:50			2021/11/10 11:53		
COC Number		43820	43820			43820			43820		
	UNITS	SP-LN-07	SP-LN-08	RDL	QC Batch	SP-LN-09	RDL	QC Batch	SP-LN-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	80	34	0.50	A438408	49	1.0	A438397	35	0.50	A438408
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RDL = Reportable Detection Limit



BUREAU
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Bureau Veritas Job #: C189363

Report Date: 2021/12/11

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKZ930	AKZ931		
Sampling Date		2021/11/10 11:55	2021/11/10 11:20		
COC Number		43820	43820		
	UNITS	SP-LN-11	SP-NW-14	RDL	QC Batch
Elements					
Total Lead (Pb)	mg/kg	14	29	1.0	A438397
RDL = Reportable Detection Limit					



BUREAU
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Bureau Veritas Job #: C189363

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Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	14.6°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKZ855 [MN-AM-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ856 [MN-AM-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ857 [MN-AM-02D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ860 [MN-AM-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ862 [MN-AM-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ864 [BK-SP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ865 [BK-SP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ866 [BK-SP-02D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ867 [BK-SP-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ868 [BK-SP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ869 [BK-SP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ870 [BK-SP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ871 [BK-SP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ872 [BK-SP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ873 [BK-SP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ874 [BK-SP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ875 [BK-SP-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ876 [BK-SP-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ877 [BK-SP-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ879 [BK-SP-15] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ880 [BK-SP-16] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ881 [BK-SP-17] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ882 [BK-SP-18] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ883 [BK-SP-19] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ884 [BK-SP-20] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ885 [BK-SS-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ886 [BK-SS-01D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ890 [BK-SS-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ891 [BK-SS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ892 [BK-SS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ893 [BK-SS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ894 [BK-SS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ895 [BK-SS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ896 [SP-RH-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ897 [SP-RH-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ898 [SP-RH-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ899 [SP-RH-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ900 [SP-RH-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ901 [SP-RH-05D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ902 [SP-RH-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ903 [SP-RH-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ904 [SP-RH-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ905 [SP-RH-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ908 [SP-NW-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ909 [SP-NW-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ910 [SP-NW-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ911 [SP-NW-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ912 [SP-NW-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ913 [SP-NW-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ914 [SP-NW-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ915 [SP-NW-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ916 [SP-NW-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ917 [SP-NW-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ923 [SP-LN-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ928 [SP-LN-09] Lead: Detection limits raised based on sample weight used for analysis.



BUREAU
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Bureau Veritas Job #: C189363

Report Date: 2021/12/11

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

Sample AKZ930 [SP-LN-11] Lead: Detection limits raised based on sample weight used for analysis.

Sample AKZ931 [SP-NW-14] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C189363

Report Date: 2021/12/11

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A438395	MFP	Matrix Spike [AKZ913-01]	Total Lead (Pb)	2021/11/24		NC	%	75 - 125
A438395	MFP	QC Standard	Total Lead (Pb)	2021/11/24		115	%	79 - 121
A438395	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		98	%	80 - 120
A438395	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438395	MFP	RPD [AKZ913-01]	Total Lead (Pb)	2021/11/24	5.1		%	35
A438397	MFP	Matrix Spike	Total Lead (Pb)	2021/11/24		100	%	75 - 125
A438397	MFP	QC Standard	Total Lead (Pb)	2021/11/24		116	%	79 - 121
A438397	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		101	%	80 - 120
A438397	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438397	MFP	RPD	Total Lead (Pb)	2021/11/24	5.7		%	35
A438408	MFP	Matrix Spike [AKZ927-01]	Total Lead (Pb)	2021/11/24		114	%	75 - 125
A438408	MFP	QC Standard	Total Lead (Pb)	2021/11/24		107	%	79 - 121
A438408	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		98	%	80 - 120
A438408	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438408	MFP	RPD [AKZ927-01]	Total Lead (Pb)	2021/11/24	2.6		%	35
A438436	MFP	Matrix Spike [AKZ915-01]	Total Lead (Pb)	2021/11/24		NC	%	75 - 125
A438436	MFP	QC Standard	Total Lead (Pb)	2021/11/24		104	%	79 - 121
A438436	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		96	%	80 - 120
A438436	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438436	MFP	RPD [AKZ915-01]	Total Lead (Pb)	2021/11/24	13		%	35
A438442	MFP	Matrix Spike [AKZ897-01]	Total Lead (Pb)	2021/11/24		101	%	75 - 125
A438442	MFP	QC Standard	Total Lead (Pb)	2021/12/10		111	%	79 - 121
A438442	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		97	%	80 - 120
A438442	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438442	MFP	RPD [AKZ897-01]	Total Lead (Pb)	2021/11/25	22		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C189363

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Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Harry (Peng) Liang, Senior Analyst, B.Sc., QP

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form

888



W43820

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: MN-AM-01
Last Sample: SP-NW-14
Sample Count: 77

Relinquished By				Received By			
Roger Catigan		Date	2021/11/17	Amarjit Bawa		Date	2021/11/17
		Time (24 HR)	13:00			Time (24 HR)	16:48
		Date		Reem Phillipos		Date	2021/11/19
		Time (24 HR)				Time (24 HR)	08:25
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

Shane Barry

of Coolers/Pkgs:

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

La 17-Nov-21 16:48

Labeled By

Parminder Virk

C189363

Verified By

AIN INS-0366

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	14.5	14.6	14.6
Y	Y	N	13	14	14
Y	Y	N	15	15	16
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43820



Project Information: C189363
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

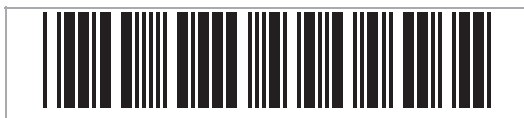
Analytical Summary

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
MN-AM-01	1	2021/11/09 13:26	SOIL	1	A
MN-AM-02	2	2021/11/09 13:30	SOIL	1	A
MN-AM-02D	3	2021/11/09 13:30	SOIL	1	A
MN-AM-03	4	2021/11/09 13:34	SOIL	1	A
MN-AM-04	5	2021/11/09 13:38	SOIL	1	A
MN-AM-05	6	2021/11/09 13:42	SOIL	1	A
MN-AM-06	7	2021/11/09 13:46	SOIL	1	A
MN-AM-07	8	2021/11/09 13:50	SOIL	1	A
MN-AM-08	9	2021/11/09 13:55	SOIL	1	A
BK-SP-01	10	2021/11/09 16:10	SOIL	1	A
BK-SP-02	11	2021/11/09 16:13	SOIL	1	A
BK-SP-02D	12	2021/11/09 16:13	SOIL	1	A
BK-SP-03	13	2021/11/09 16:16	SOIL	1	A
BK-SP-04	14	2021/11/09 16:17	SOIL	1	A
BK-SP-05	15	2021/11/09 16:19	SOIL	1	A
BK-SP-06	16	2021/11/09 16:21	SOIL	1	A
BK-SP-07	17	2021/11/09 16:24	SOIL	1	A
BK-SP-08	18	2021/11/09 16:27	SOIL	1	A



eCOC: W43820



Project Information: C189363
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
BK-SP-09	19	2021/11/09 16:30	SOIL	1	A
BK-SP-10	20	2021/11/09 16:35	SOIL	1	A
BK-SP-11	21	2021/11/09 16:40	SOIL	1	A
BK-SP-12	22	2021/11/09 16:43	SOIL	1	A
BK-SP-13	23	2021/11/09 16:46	SOIL	1	A
BK-SP-14	24	2021/11/09 16:50	SOIL	1	A
BK-SP-15	25	2021/11/09 16:53	SOIL	1	A
BK-SP-16	26	2021/11/09 16:57	SOIL	1	A
BK-SP-17	27	2021/11/09 17:00	SOIL	1	A
BK-SP-18	28	2021/11/09 17:05	SOIL	1	A
BK-SP-19	29	2021/11/09 17:10	SOIL	1	A
BK-SP-20	30	2021/11/09 17:15	SOIL	1	A
BK-SS-01	31	2021/11/10 12:05	SOIL	1	A
BK-SS-01D	32	2021/11/10 12:05	SOIL	1	A
BK-SS-02	33	2021/11/10 12:08	SOIL	1	A
BK-SS-03	34	2021/11/10 12:11	SOIL	1	A
BK-SS-04	35	2021/11/10 12:14	SOIL	1	A
BK-SS-05	36	2021/11/10 12:17	SOIL	1	A
BK-SS-06	37	2021/11/10 12:20	SOIL	1	A
BK-SS-07	38	2021/11/10 12:23	SOIL	1	A
BK-SS-08	39	2021/11/10 12:30	SOIL	1	A
BK-SS-09	40	2021/11/10 12:35	SOIL	1	A
BK-SS-10	41	2021/11/10 12:40	SOIL	1	A



eCOC: W43820



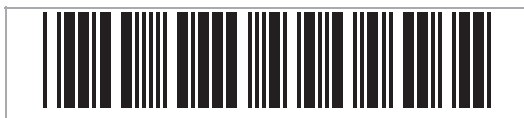
Project Information: C189363
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SP-RH-01	42	2021/11/10 10:00	SOIL	1	A
SP-RH-02	43	2021/11/10 10:04	SOIL	1	A
SP-RH-03	44	2021/11/10 10:08	SOIL	1	A
SP-RH-04	45	2021/11/10 10:12	SOIL	1	A
SP-RH-05	46	2021/11/10 10:16	SOIL	1	A
SP-RH-05D	47	2021/11/10 10:16	SOIL	1	A
SP-RH-06	48	2021/11/10 10:24	SOIL	1	A
SP-RH-07	49	2021/11/10 10:28	SOIL	1	A
SP-RH-08	50	2021/11/10 10:32	SOIL	1	A
SP-RH-09	51	2021/11/10 10:36	SOIL	1	A
SP-RH-10	52	2021/11/10 10:40	SOIL	1	A
SP-NW-01	53	2021/11/10 10:44	SOIL	1	A
SP-NW-02	54	2021/11/10 10:46	SOIL	1	A
SP-NW-03	55	2021/11/10 10:48	SOIL	1	A
SP-NW-04	56	2021/11/10 10:50	SOIL	1	A
SP-NW-05	57	2021/11/10 10:52	SOIL	1	A
SP-NW-06	58	2021/11/10 10:55	SOIL	1	A
SP-NW-07	59	2021/11/10 10:57	SOIL	1	A
SP-NW-08	60	2021/11/10 11:00	SOIL	1	A
SP-NW-09	61	2021/11/10 11:02	SOIL	1	A
SP-NW-10	62	2021/11/10 11:04	SOIL	1	A
SP-NW-11	63	2021/11/10 11:07	SOIL	1	A
SP-NW-12	64	2021/11/10 11:10	SOIL	1	A



eCOC: W43820



Project Information: C189363
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SP-NW-13	65	2021/11/10 11:15	SOIL	1	A
SP-LN-01	66	2021/11/10 11:26	SOIL	1	A
SP-LN-02	67	2021/11/10 11:29	SOIL	1	A
SP-LN-03	68	2021/11/10 11:32	SOIL	1	A
SP-LN-04	69	2021/11/10 11:35	SOIL	1	A
SP-LN-05	70	2021/11/10 11:38	SOIL	1	A
SP-LN-06	71	2021/11/10 11:41	SOIL	1	A
SP-LN-07	72	2021/11/10 11:43	SOIL	1	A
SP-LN-08	73	2021/11/10 11:47	SOIL	1	A
SP-LN-09	74	2021/11/10 11:50	SOIL	1	A
SP-LN-10	75	2021/11/10 11:53	SOIL	1	A
SP-LN-11	76	2021/11/10 11:55	SOIL	1	A
SP-NW-14	77	2021/11/10 11:20	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 77

eCOC Change Log

Modified By	Date Modified	Changes	Comments
Jesse Bursee	17 Nov 21 10:51:10	Tests Requested, Sample Information	

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/10 to 2021/11/12

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C189375

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	The field duplicate RPD for lead (104%) is beyond the acceptable alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD		X		All other field QC samples met the alert limits.

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43845

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/17
Report #: R3109586
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189375

Received: 2021/11/17, 16:48

Sample Matrix: Soil
Samples Received: 73

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	72	2021/11/24	2021/11/24	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/12/16	2021/12/17	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43845

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/17
Report #: R3109586
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189375

Received: 2021/11/17, 16:48

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

17 Dec 2021 14:54:42

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C189375

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKZ967		AKZ968			AKZ969			AKZ970		
Sampling Date		2021/11/10 08:41		2021/11/10 08:44			2021/11/10 08:48			2021/11/10 08:52		
COC Number		43845		43845			43845			43845		
	UNITS	BC-BP-01	QC Batch	BC-BP-02	RDL	QC Batch	BC-BP-03	RDL	QC Batch	BC-BP-04	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	28	A438422	14	1.0	A438436	13	0.50	A438413	18	1.0	A438422

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ971	AKZ972	AKZ973			AKZ974		AKZ975		
Sampling Date		2021/11/10 08:56	2021/11/10 09:00	2021/11/10 09:04			2021/11/10 09:08		2021/11/10 09:12		
COC Number		43845	43845	43845			43845		43845		
	UNITS	BC-BP-05	BC-BP-06	BC-BP-07	RDL	QC Batch	BC-BP-08	QC Batch	BC-BP-09	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	11	8.1	59	0.50	A438413	16	A438436	4.8	1.0	A438422

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ976	AKZ977			AKZ978	AKZ979	AKZ980		
Sampling Date		2021/11/10 09:17	2021/11/12 14:38			2021/11/12 14:42	2021/11/12 14:46	2021/11/12 14:50		
COC Number		43845	43845			43845	43845	43845		
	UNITS	BC-BP-10	BC-MS-01	RDL	QC Batch	BC-MS-02	BC-MS-03	BC-MS-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	10	90	0.50	A438413	26	22	13	1.0	A438422

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ981			AKZ982		AKZ983	AKZ984		
Sampling Date		2021/11/12 14:54			2021/11/12 14:58		2021/11/12 15:02	2021/11/12 15:06		
COC Number		43845			43845		43845	43845		
	UNITS	BC-MS-05	RDL	QC Batch	BC-MS-06	QC Batch	BC-MS-07	BC-MS-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	11	0.50	A438413	22	A438422	16	19	1.0	A438386

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ985	AKZ986			AKZ987	AKZ988	AKZ989	AKZ990		
Sampling Date		2021/11/12 15:10	2021/11/12 15:15			2021/11/12 15:20	2021/11/12 15:50	2021/11/12 15:55	2021/11/12 15:55		
COC Number		43845	43845			43845	43845	43845	43845		
	UNITS	BC-MS-09	BC-MS-10	RDL	QC Batch	BC-MS-11	BC-KE-01	BC-KE-02	BC-KE-02D	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	18	15	0.50	A438417	25	57	12	38	1.0	A438386

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C189375

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		AKZ991	AKZ992			AKZ993			AKZ994		
Sampling Date		2021/11/12 16:05	2021/11/12 16:10			2021/11/12 16:15			2021/11/12 16:15		
COC Number		43845	43845			43845			43845		
	UNITS	BC-KE-03	BC-KE-04	RDL	QC Batch	BC-KE-05	RDL	QC Batch	BC-KE-06	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	57	31	1.0	A438386	14	0.50	A438417	16	1.0	A438386

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ995		AKZ996	AKZ997			AKZ998		
Sampling Date		2021/11/12 16:20		2021/11/12 16:25	2021/11/12 16:30			2021/11/12 16:35		
COC Number		43845		43845	43845			43845		
	UNITS	BC-KE-07	QC Batch	BC-KE-08	BC-KE-09	RDL	QC Batch	BC-KE-10	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	37	A438436	16	15	1.0	A438386	17	0.50	A438417

RDL = Reportable Detection Limit

Bureau Veritas ID		AKZ999			ALA000	ALA001			ALA002		
Sampling Date		2021/11/12 10:00			2021/11/12 10:05	2021/11/12 10:15			2021/11/12 10:34		
COC Number		43845			43845	43845			43845		
	UNITS	RB-PB-01	RDL	QC Batch	RB-PB-02	RB-PB-03	RDL	QC Batch	RB-JS-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	18	0.50	A438413	46	51	1.0	A438422	19	0.50	A438413

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA003		ALA004	ALA005			ALA006		
Sampling Date		2021/11/12 10:39		2021/11/12 10:45	2021/11/12 10:49			2021/11/12 10:54		
COC Number		43845		43845	43845			43845		
	UNITS	RB-JS-02	QC Batch	RB-JS-03	RB-JS-04	RDL	QC Batch	RB-JS-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	67	A438422	23	9.0	1.0	A438386	17	0.50	A438417

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA007			ALA008		ALA009			ALA010		
Sampling Date		2021/11/12 10:59			2021/11/12 11:04		2021/11/12 11:09			2021/11/12 11:14		
COC Number		43845			43845		43845			43845		
	UNITS	RB-JS-06	RDL	QC Batch	RB-JS-07	QC Batch	RB-JS-08	RDL	QC Batch	RB-JS-09	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	20	1.0	A438386	65	A447137	52	0.50	A438417	15	1.0	A438422

RDL = Reportable Detection Limit

BUREAU
VERITAS

Bureau Veritas Job #: C189375

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA011	ALA012	ALA013	ALA014	ALA015			ALA016		
Sampling Date		2021/11/12 11:19	2021/11/12 11:24	2021/11/12 11:29	2021/11/12 11:34	2021/11/12 11:39			2021/11/12 11:39		
COC Number		43845	43845	43845	43845	43845			43845		
	UNITS	RB-JS-10	RB-JS-11	RB-JS-12	RB-JS-13	RB-JS-14	RDL	QC Batch	RB-JS-14D	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	33	31	13	5.4	20	1.0	A438386	18	0.50	A438417

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA017	ALA018	ALA019	ALA020	ALA021	ALA022	ALA023		
Sampling Date		2021/11/12 11:44	2021/11/12 12:20	2021/11/12 12:23	2021/11/12 12:26	2021/11/12 12:29	2021/11/12 12:32	2021/11/12 12:35		
COC Number		43845	43845	43845	43845	43845	43845	43845		
	UNITS	RB-JS-15	RB-JY-01	RB-JY-02	RB-JY-03	RB-JY-04	RB-JY-05	RB-JY-06	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	130	18	110	28	64	40	49	0.50	A438417	

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA024			ALA025	ALA026	ALA027	ALA028		
Sampling Date		2021/11/12 12:40			2021/11/12 12:45	2021/11/12 12:50	2021/11/12 12:53	2021/11/12 12:58		
COC Number		43845			43845	43845	43845	43845		
	UNITS	RB-JY-07	RDL	QC Batch	RB-JY-08	RB-JY-09	RB-RS-01	RB-RS-02	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	41	1.0	A438422	11	23	33	21	0.50	A438417	

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA029		ALA030			ALA031			ALA032		
Sampling Date		2021/11/12 13:03		2021/11/12 13:08			2021/11/12 13:13			2021/11/12 13:18		
COC Number		43845		43845			43845			43845		
	UNITS	RB-RS-03	QC Batch	RB-RS-04	RDL	QC Batch	RB-RS-05	RDL	QC Batch	RB-RS-06	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	21	A438386	65	1.0	A438422	57	0.50	A438417	13	1.0	A438422

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA033			ALA034			ALA035	ALA036	ALA037		
Sampling Date		2021/11/12 13:23			2021/11/12 13:23			2021/11/12 13:28	2021/11/12 13:33	2021/11/12 13:38		
COC Number		43845			43845			43845	43845	43845		
	UNITS	RB-RS-07	RDL	QC Batch	RB-RS-07D	RDL	QC Batch	RB-RS-08	RB-RS-09	RB-RS-10	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	41	1.0	A438422	44	0.50	A438417	34	48	15	1.0	A438422

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C189375
Report Date: 2021/12/17

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: PO PENDING
Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA038	ALA039		
Sampling Date		2021/11/12 13:42	2021/11/12 13:48		
COC Number		43845	43845		
	UNITS	RB-RS-11	RB-RS-12	RDL	QC Batch
Elements					
Total Lead (Pb)	mg/kg	81	13	1.0	A438422
RDL = Reportable Detection Limit					



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	15.7°C
-----------	--------

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample AKZ967 [BC-BP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ968 [BC-BP-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ970 [BC-BP-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ974 [BC-BP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ975 [BC-BP-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ978 [BC-MS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ979 [BC-MS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ980 [BC-MS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ982 [BC-MS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ983 [BC-MS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ984 [BC-MS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ987 [BC-MS-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ988 [BC-KE-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ989 [BC-KE-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ990 [BC-KE-02D] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ991 [BC-KE-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ992 [BC-KE-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ994 [BC-KE-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ995 [BC-KE-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample AKZ996 [BC-KE-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA000 [RB-PB-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA001 [RB-PB-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA003 [RB-JS-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA004 [RB-JS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA005 [RB-JS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA007 [RB-JS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA010 [RB-JS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA011 [RB-JS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA012 [RB-JS-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA013 [RB-JS-12] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA014 [RB-JS-13] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA015 [RB-JS-14] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA024 [RB-JY-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA029 [RB-RS-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA030 [RB-RS-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA032 [RB-RS-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA033 [RB-RS-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA035 [RB-RS-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA036 [RB-RS-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA037 [RB-RS-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA038 [RB-RS-11] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALA039 [RB-RS-12] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C189375

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A438386	MFP	Matrix Spike [ALA029-01]	Total Lead (Pb)	2021/11/24		114	%	75 - 125
A438386	MFP	QC Standard	Total Lead (Pb)	2021/11/24		114	%	79 - 121
A438386	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		101	%	80 - 120
A438386	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438386	MFP	RPD [ALA029-01]	Total Lead (Pb)	2021/11/24	14		%	35
A438413	MFP	Matrix Spike [AKZ999-01]	Total Lead (Pb)	2021/11/24		97	%	75 - 125
A438413	MFP	QC Standard	Total Lead (Pb)	2021/11/24		101	%	79 - 121
A438413	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		92	%	80 - 120
A438413	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438413	MFP	RPD [AKZ999-01]	Total Lead (Pb)	2021/11/24	6.1		%	35
A438417	MFP	Matrix Spike [ALA026-01]	Total Lead (Pb)	2021/11/24		92	%	75 - 125
A438417	MFP	QC Standard	Total Lead (Pb)	2021/11/24		117	%	79 - 121
A438417	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		101	%	80 - 120
A438417	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438417	MFP	RPD [ALA026-01]	Total Lead (Pb)	2021/11/24	3.5		%	35
A438422	MFP	Matrix Spike [ALA035-01]	Total Lead (Pb)	2021/11/24		92	%	75 - 125
A438422	MFP	QC Standard	Total Lead (Pb)	2021/11/24		112	%	79 - 121
A438422	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		96	%	80 - 120
A438422	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438422	MFP	RPD [ALA035-01]	Total Lead (Pb)	2021/11/24	10		%	35
A438436	MFP	Matrix Spike	Total Lead (Pb)	2021/11/24		NC	%	75 - 125
A438436	MFP	QC Standard	Total Lead (Pb)	2021/11/24		104	%	79 - 121
A438436	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		96	%	80 - 120
A438436	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438436	MFP	RPD	Total Lead (Pb)	2021/11/24	13		%	35
A447137	MFP	Matrix Spike [ALA008-01]	Total Lead (Pb)	2021/12/17		NC	%	75 - 125
A447137	MFP	QC Standard	Total Lead (Pb)	2021/12/17		110	%	79 - 121
A447137	MFP	Spiked Blank	Total Lead (Pb)	2021/12/17		102	%	80 - 120
A447137	MFP	Method Blank	Total Lead (Pb)	2021/12/17	<0.50		mg/kg	
A447137	MFP	RPD [ALA008-01]	Total Lead (Pb)	2021/12/17	3.9		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C189375

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form

889



W43845

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: BC-BP-01
Last Sample: RB-RS-12
Sample Count: 73

Relinquished By				Received By			
Roger Cetipon	RTG	Date	2021/11/17	Amangot Bora	A. Bora	Date	2021/11/17
		Time (24 HR)	13:00			Time (24 HR)	16:48
		Date		Reem Phillipos	Reem	Date	2021/11/19
		Time (24 HR)				Time (24 HR)	08:25
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Shane Barry

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C189375

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	15.2	15.9	16.1
Y	Y	N	12	12	13
Y	Y	N	16	17	17
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43845



Project Information: C189375
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
BC-BP-01	1	2021/11/10 08:41	SOIL	1	A
BC-BP-02	2	2021/11/10 08:44	SOIL	1	A
BC-BP-03	3	2021/11/10 08:48	SOIL	1	A
BC-BP-04	4	2021/11/10 08:52	SOIL	1	A
BC-BP-05	5	2021/11/10 08:56	SOIL	1	A
BC-BP-06	6	2021/11/10 09:00	SOIL	1	A
BC-BP-07	7	2021/11/10 09:04	SOIL	1	A
BC-BP-08	8	2021/11/10 09:08	SOIL	1	A
BC-BP-09	9	2021/11/10 09:12	SOIL	1	A
BC-BP-10	10	2021/11/10 09:17	SOIL	1	A
BC-MS-01	11	2021/11/12 14:38	SOIL	1	A
BC-MS-02	12	2021/11/12 14:42	SOIL	1	A
BC-MS-03	13	2021/11/12 14:46	SOIL	1	A
BC-MS-04	14	2021/11/12 14:50	SOIL	1	A
BC-MS-05	15	2021/11/12 14:54	SOIL	1	A
BC-MS-06	16	2021/11/12 14:58	SOIL	1	A
BC-MS-07	17	2021/11/12 15:02	SOIL	1	A
BC-MS-08	18	2021/11/12 15:06	SOIL	1	A



eCOC: W43845



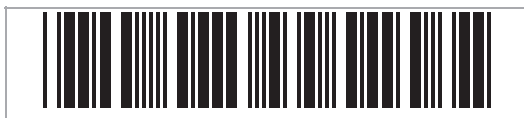
Project Information: C189375
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
BC-MS-09	19	2021/11/12 15:10	SOIL	1	A
BC-MS-10	20	2021/11/12 15:15	SOIL	1	A
BC-MS-11	21	2021/11/12 15:20	SOIL	1	A
BC-KE-01	22	2021/11/12 15:50	SOIL	1	A
BC-KE-02	23	2021/11/12 15:55	SOIL	1	A
BC-KE-02D	24	2021/11/12 15:55	SOIL	1	A
BC-KE-03	25	2021/11/12 16:05	SOIL	1	A
BC-KE-04	26	2021/11/12 16:10	SOIL	1	A
BC-KE-05	27	2021/11/12 16:15	SOIL	1	A
BC-KE-06	28	2021/11/12 16:15	SOIL	1	A
BC-KE-07	29	2021/11/12 16:20	SOIL	1	A
BC-KE-08	30	2021/11/12 16:25	SOIL	1	A
BC-KE-09	31	2021/11/12 16:30	SOIL	1	A
BC-KE-10	32	2021/11/12 16:35	SOIL	1	A
RB-PB-01	33	2021/11/12 10:00	SOIL	1	A
RB-PB-02	34	2021/11/12 10:05	SOIL	1	A
RB-PB-03	35	2021/11/12 10:15	SOIL	1	A
RB-JS-01	36	2021/11/12 10:34	SOIL	1	A
RB-JS-02	37	2021/11/12 10:39	SOIL	1	A
RB-JS-03	38	2021/11/12 10:45	SOIL	1	A
RB-JS-04	39	2021/11/12 10:49	SOIL	1	A
RB-JS-05	40	2021/11/12 10:54	SOIL	1	A
RB-JS-06	41	2021/11/12 10:59	SOIL	1	A



eCOC: W43845



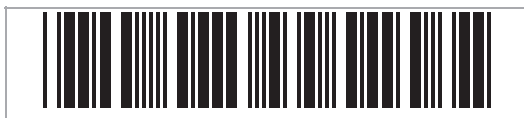
Project Information: C189375
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RB-JS-07	42	2021/11/12 11:04	SOIL	1	A
RB-JS-08	43	2021/11/12 11:09	SOIL	1	A
RB-JS-09	44	2021/11/12 11:14	SOIL	1	A
RB-JS-10	45	2021/11/12 11:19	SOIL	1	A
RB-JS-11	46	2021/11/12 11:24	SOIL	1	A
RB-JS-12	47	2021/11/12 11:29	SOIL	1	A
RB-JS-13	48	2021/11/12 11:34	SOIL	1	A
RB-JS-14	49	2021/11/12 11:39	SOIL	1	A
RB-JS-14D	50	2021/11/12 11:39	SOIL	1	A
RB-JS-15	51	2021/11/12 11:44	SOIL	1	A
RB-JY-01	52	2021/11/12 12:20	SOIL	1	A
RB-JY-02	53	2021/11/12 12:23	SOIL	1	A
RB-JY-03	54	2021/11/12 12:26	SOIL	1	A
RB-JY-04	55	2021/11/12 12:29	SOIL	1	A
RB-JY-05	56	2021/11/12 12:32	SOIL	1	A
RB-JY-06	57	2021/11/12 12:35	SOIL	1	A
RB-JY-07	58	2021/11/12 12:40	SOIL	1	A
RB-JY-08	59	2021/11/12 12:45	SOIL	1	A
RB-JY-09	60	2021/11/12 12:50	SOIL	1	A
RB-RS-01	61	2021/11/12 12:53	SOIL	1	A
RB-RS-02	62	2021/11/12 12:58	SOIL	1	A
RB-RS-03	63	2021/11/12 13:03	SOIL	1	A
RB-RS-04	64	2021/11/12 13:08	SOIL	1	A



eCOC: W43845



Project Information: C189375
Job Received: 2021/11/17 16:48
Results Required By: 2021/11/24 15:00
Expected Arrival: 2021/11/17 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/24 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RB-RS-05	65	2021/11/12 13:13	SOIL	1	A
RB-RS-06	66	2021/11/12 13:18	SOIL	1	A
RB-RS-07	67	2021/11/12 13:23	SOIL	1	A
RB-RS-07D	68	2021/11/12 13:23	SOIL	1	A
RB-RS-08	69	2021/11/12 13:28	SOIL	1	A
RB-RS-09	70	2021/11/12 13:33	SOIL	1	A
RB-RS-10	71	2021/11/12 13:38	SOIL	1	A
RB-RS-11	72	2021/11/12 13:42	SOIL	1	A
RB-RS-12	73	2021/11/12 13:48	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 73

DATA QUALITY REVIEW CHECKLIST

Consultant: <u>Parsons Inc.</u>	Sampling Date: <u>2021/11/17</u>
Location: <u>Winnipeg, Manitoba</u>	Laboratory : <u>Bureau Veritas, Calgary</u>
Consultant Project Number: <u>10-12553</u>	BV Labs Job Number: <u>C189380</u>

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?				
	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?				
	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:	<u>Yes</u>
Has lab warranted all tests were in statistical control in CofA (Yes/No)?:	<u>Yes</u>
Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:	<u>Yes</u>
Were all samples analyzed within hold times (Yes/No)?:	<u>Yes</u>
All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:	<u>N/A</u>
Is Chain of Custody completed and signed (Yes/No)?:	<u>Yes</u>
Were sample temperatures acceptable when they reached lab (Yes/No)?:	<u>Yes</u>

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:	<u>No</u>
---	-----------

Is data considered to be reliable (Yes/No)?:	<u>Yes</u>
If answer is "No", describe and provide rationale:	

Data Reviewed by (Print): <u>Adam Wiebe</u>	Data Reviewed by (Signature): <u>Adam Wiebe</u>
Review Date: <u>2022/01/11</u>	
Revision Date (if applicable): _____	Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43957

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/10
Report #: R3106073
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189380

Received: 2021/11/19, 15:40

Sample Matrix: Soil
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Lead	6	2021/11/26	2021/11/26	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Parminder Virk

Parminder Virk
Key Account Specialist
10 Dec 2021 16:11:57

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C189380

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA067	ALA068	ALA069	ALA070	ALA071	ALA072		
Sampling Date		2021/11/17 11:30	2021/11/17 11:33	2021/11/17 11:36	2021/11/17 11:50	2021/11/17 11:53	2021/11/17 11:56		
COC Number		43957	43957	43957	43957	43957	43957		
	UNITS	SB-LV-14R1	SB-LV-14R2	SB-LV-14R3	NE-TP-07R1	NE-TP-07R2	NE-TP-07R3	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	500	280	160	160	82	49	0.50	A438885
RDL = Reportable Detection Limit									



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.3°C
-----------	--------

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C189380

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A438885	MFP	Matrix Spike [ALA068-01]	Total Lead (Pb)	2021/11/26		NC	%	75 - 125
A438885	MFP	QC Standard	Total Lead (Pb)	2021/11/26		110	%	79 - 121
A438885	MFP	Spiked Blank	Total Lead (Pb)	2021/11/26		93	%	80 - 120
A438885	MFP	Method Blank	Total Lead (Pb)	2021/11/26	<0.50		mg/kg	
A438885	MFP	RPD [ALA068-01]	Total Lead (Pb)	2021/11/26	26		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C189380

Report Date: 2021/12/10

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



443

Custody Tracking Form



W43957

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: SB-LV-14R1
Last Sample: NE-TP-07R3
Sample Count: 6

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/19	Amanjit Brar		Date	2021/11/19
		Time (24 HR)	12:00			Time (24 HR)	1540
		Date		Adam Finkbeiner		Date	2021/11/20
		Time (24 HR)				Time (24 HR)	10:10
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Shane Barry

1

Rush ☐Immediate Test ☐Food Residue ☐Micro ☐Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

19-Nov-21 15:40

Labeled By

Parminder Virk



C189380

Verified By

DKR INS-0093

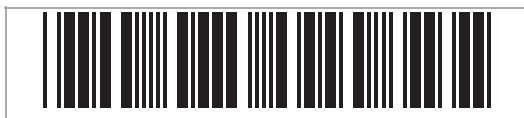
Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	16.9	17.5	17.6
Y	Y	Y	8	9	8
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43957



Project Information: C189380
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

Analytical Summary

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
SB-LV-14R1	1	2021/11/17 11:30	SOIL	1	A
SB-LV-14R2	2	2021/11/17 11:33	SOIL	1	A
SB-LV-14R3	3	2021/11/17 11:36	SOIL	1	A
NE-TP-07R1	4	2021/11/17 11:50	SOIL	1	A
NE-TP-07R2	5	2021/11/17 11:53	SOIL	1	A
NE-TP-07R3	6	2021/11/17 11:56	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 6

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/15

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C189409

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?: Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?: Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?: Yes

Were all samples analyzed within hold times (Yes/No)?: Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?: N/A

Is Chain of Custody completed and signed (Yes/No)?: Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?: Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?: No

Is data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature): Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43939

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/17
Report #: R3109859
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189409

Received: 2021/11/19, 15:40

Sample Matrix: Soil
Samples Received: 61

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	59	2021/11/25	2021/11/25	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	2	2021/12/16	2021/12/17	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43939

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/17
Report #: R3109859
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189409

Received: 2021/11/19, 15:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

17 Dec 2021 17:20:34

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C189409

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA403	ALA404		ALA405	ALA406			ALA407		
Sampling Date		2021/11/15 12:45	2021/11/15 12:50		2021/11/15 12:55	2021/11/15 13:00			2021/11/15 13:05		
COC Number		43939	43939		43939	43939			43939		
	UNITS	RB-LS-01	RB-LS-02	QC Batch	RB-LS-03	RB-LS-04	RDL	QC Batch	RB-LS-05	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	64	65	A438360	82	32	0.50	A438363	14	1.0	A438367

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA408	ALA409	ALA410	ALA411	ALA412		ALA413		
Sampling Date		2021/11/15 13:10	2021/11/15 13:15	2021/11/15 13:20	2021/11/15 13:25	2021/11/15 13:30		2021/11/15 13:35		
COC Number		43939	43939	43939	43939	43939		43939		
	UNITS	RB-LS-06	RB-LS-07	RB-LS-08	RB-LS-09	RB-LS-10	QC Batch	RB-LS-11	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	37	53	53	52	62	A438367	55	1.0	A438360

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA414		ALA415		ALA416	ALA417	ALA418		
Sampling Date		2021/11/15 13:40		2021/11/15 13:45		2021/11/15 13:50	2021/11/15 13:55	2021/11/15 13:55		
COC Number		43939		43939		43939	43939	43939		
	UNITS	RB-LS-12	QC Batch	RB-LS-13	QC Batch	RB-LS-14	RB-LS-15	RB-LS-15D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	76	A438367	45	A438360	40	42	43	1.0	A438367

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA419	ALA420			ALA421			ALA422		
Sampling Date		2021/11/15 14:00	2021/11/15 09:51			2021/11/15 09:55			2021/11/15 09:59		
COC Number		43939	43939			43939			43939		
	UNITS	RB-LS-16	CN-RE-01	RDL	QC Batch	CN-RE-02	RDL	QC Batch	CN-RE-03	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	17	23	1.0	A438367	21	0.50	A447137	21	1.0	A438367

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA423		ALA424	ALA425			ALA426		ALA427		
Sampling Date		2021/11/15 09:59		2021/11/15 10:03	2021/11/15 10:07			2021/11/15 10:15		2021/11/15 10:20		
COC Number		43939		43939	43939			43939		43939		
	UNITS	CN-RE-03D	RDL	CN-RE-04	CN-RE-05	RDL	QC Batch	CN-RE-06	QC Batch	CN-RE-07	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	13	1.0	71	34	0.50	A438360	14	A438367	13	1.0	A438363

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C189409

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA428	ALA429	ALA430		ALA431		ALA432		
Sampling Date		2021/11/15 10:40	2021/11/15 10:44	2021/11/15 10:48		2021/11/15 10:52		2021/11/15 10:56		
COC Number		43939	43939	43939		43939		43939		
	UNITS	CN-PA-01	CN-PA-02	CN-PA-03	RDL	CN-PA-04	QC Batch	CN-PA-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	52	120	70	1.0	5.9	A438367	26	0.50	A438363

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA433		ALA434	ALA435			ALA436		ALA437		
Sampling Date		2021/11/15 11:00		2021/11/15 11:04	2021/11/15 11:08			2021/11/15 11:25		2021/11/15 11:29		
COC Number		43939		43939	43939			43939		43939		
	UNITS	CN-PA-06	RDL	CN-PA-07	CN-PA-08	RDL	QC Batch	CN-GD-01	QC Batch	CN-GD-02	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	34	1.0	23	30	0.50	A438363	14	A438367	12	1.0	A438363

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA438		ALA439	ALA440		ALA441	ALA442		ALA443		
Sampling Date		2021/11/15 11:33		2021/11/15 11:37	2021/11/15 11:41		2021/11/15 11:45	2021/11/15 11:50		2021/11/15 14:20		
COC Number		43939		43939	43939		43939	43939		43939		
	UNITS	CN-GD-03	RDL	CN-GD-04	CN-GD-05	RDL	CN-GD-06	CN-GD-07	RDL	CN-GP-01	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	26	1.0	10	82	0.50	11	9.9	1.0	240	0.50	A438360

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA444		ALA445	ALA446		ALA447	ALA448		
Sampling Date		2021/11/15 14:24		2021/11/15 14:28	2021/11/15 14:32		2021/11/15 14:36	2021/11/15 14:40		
COC Number		43939		43939	43939		43939	43939		
	UNITS	CN-GP-02	QC Batch	CN-GP-03	CN-GP-04	QC Batch	CN-GP-05	CN-GP-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	170	A447137	70	41	A438360	160	52	0.50	A438363

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA449	ALA450		ALA451		ALA452		ALA453		
Sampling Date		2021/11/15 14:40	2021/11/15 14:48		2021/11/15 14:52		2021/11/15 14:56		2021/11/15 15:00		
COC Number		43939	43939		43939		43939		43939		
	UNITS	CN-GP-06D	CN-GP-07	RDL	CN-GP-08	QC Batch	CN-GP-09	RDL	CN-GP-10	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	49	72	1.0	140	A438360	160	0.50	130	1.0	A438363

RDL = Reportable Detection Limit



**BUREAU
VERITAS**

Bureau Veritas Job #: C189409

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA454	ALA455		ALA456		ALA457	ALA458		
Sampling Date		2021/11/15 15:12	2021/11/15 15:16		2021/11/15 15:19		2021/11/15 15:22	2021/11/15 15:27		
COC Number		43939	43939		43939		43939	43939		
	UNITS	CN-RP-01	CN-RP-02	QC Batch	CN-RP-03	QC Batch	CN-RP-04	CN-RP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	160	16	A438363	18	A438360	75	250	1.0	A438363
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALA459		ALA460		ALA461	ALA462		ALA463		
Sampling Date		2021/11/15 15:30		2021/11/15 15:35		2021/11/15 15:40	2021/11/15 15:45		2021/11/15 15:50		
COC Number		43939		43939		43939	43939		43939		
	UNITS	CN-RP-06	RDL	CN-RP-07	RDL	CN-RP-08	CN-RP-09	QC Batch	CN-RP-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	46	0.50	130	1.0	26	47	A438363	26	0.50	A438360
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RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.4°C
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALA407 [RB-LS-05] Lead: Detection limits raised due to sample matrix.
Sample ALA408 [RB-LS-06] Lead: Detection limits raised due to sample matrix.
Sample ALA409 [RB-LS-07] Lead: Detection limits raised due to sample matrix.
Sample ALA410 [RB-LS-08] Lead: Detection limits raised due to sample matrix.
Sample ALA411 [RB-LS-09] Lead: Detection limits raised due to sample matrix.
Sample ALA412 [RB-LS-10] Lead: Detection limits raised due to sample matrix.
Sample ALA413 [RB-LS-11] Lead: Detection limits raised due to sample matrix.
Sample ALA414 [RB-LS-12] Lead: Detection limits raised due to sample matrix.
Sample ALA415 [RB-LS-13] Lead: Detection limits raised due to sample matrix.
Sample ALA416 [RB-LS-14] Lead: Detection limits raised due to sample matrix.
Sample ALA417 [RB-LS-15] Lead: Detection limits raised due to sample matrix.
Sample ALA418 [RB-LS-15D] Lead: Detection limits raised due to sample matrix.
Sample ALA419 [RB-LS-16] Lead: Detection limits raised due to sample matrix.
Sample ALA420 [CN-RE-01] Lead: Detection limits raised due to sample matrix.
Sample ALA422 [CN-RE-03] Lead: Detection limits raised due to sample matrix.
Sample ALA423 [CN-RE-03D] Lead: Detection limits raised due to sample matrix.
Sample ALA426 [CN-RE-06] Lead: Detection limits raised due to sample matrix.
Sample ALA427 [CN-RE-07] Lead: Detection limits raised due to sample matrix.
Sample ALA428 [CN-PA-01] Lead: Detection limits raised due to sample matrix.
Sample ALA429 [CN-PA-02] Lead: Detection limits raised due to sample matrix.
Sample ALA430 [CN-PA-03] Lead: Detection limits raised due to sample matrix.
Sample ALA433 [CN-PA-06] Lead: Detection limits raised due to sample matrix.
Sample ALA436 [CN-GD-01] Lead: Detection limits raised due to sample matrix.
Sample ALA437 [CN-GD-02] Lead: Detection limits raised due to sample matrix.
Sample ALA438 [CN-GD-03] Lead: Detection limits raised due to sample matrix.
Sample ALA441 [CN-GD-06] Lead: Detection limits raised due to sample matrix.
Sample ALA442 [CN-GD-07] Lead: Detection limits raised due to sample matrix.
Sample ALA449 [CN-GP-06D] Lead: Detection limits raised due to sample matrix.
Sample ALA450 [CN-GP-07] Lead: Detection limits raised due to sample matrix.
Sample ALA453 [CN-GP-10] Lead: Detection limits raised due to sample matrix.
Sample ALA454 [CN-RP-01] Lead: Detection limits raised due to sample matrix.
Sample ALA455 [CN-RP-02] Lead: Detection limits raised due to sample matrix.
Sample ALA456 [CN-RP-03] Lead: Detection limits raised due to sample matrix.
Sample ALA457 [CN-RP-04] Lead: Detection limits raised due to sample matrix.
Sample ALA458 [CN-RP-05] Lead: Detection limits raised due to sample matrix.
Sample ALA460 [CN-RP-07] Lead: Detection limits raised due to sample matrix.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C189409

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A438360	MFP	Matrix Spike [ALA404-01]	Total Lead (Pb)	2021/11/25		NC	%	75 - 125
A438360	MFP	QC Standard	Total Lead (Pb)	2021/11/25		106	%	79 - 121
A438360	MFP	Spiked Blank	Total Lead (Pb)	2021/11/25		98	%	80 - 120
A438360	MFP	Method Blank	Total Lead (Pb)	2021/11/25	<0.50		mg/kg	
A438360	MFP	RPD [ALA404-01]	Total Lead (Pb)	2021/11/25	14		%	35
A438363	MFP	Matrix Spike [ALA453-01]	Total Lead (Pb)	2021/11/25		NC	%	75 - 125
A438363	MFP	QC Standard	Total Lead (Pb)	2021/11/25		102	%	79 - 121
A438363	MFP	Spiked Blank	Total Lead (Pb)	2021/11/25		95	%	80 - 120
A438363	MFP	Method Blank	Total Lead (Pb)	2021/11/25	<0.50		mg/kg	
A438363	MFP	RPD [ALA453-01]	Total Lead (Pb)	2021/11/25	3.6		%	35
A438367	MFP	Matrix Spike [ALA428-01]	Total Lead (Pb)	2021/11/25		NC	%	75 - 125
A438367	MFP	QC Standard	Total Lead (Pb)	2021/11/25		120	%	79 - 121
A438367	MFP	Spiked Blank	Total Lead (Pb)	2021/11/25		103	%	80 - 120
A438367	MFP	Method Blank	Total Lead (Pb)	2021/11/25	<0.50		mg/kg	
A438367	MFP	RPD [ALA428-01]	Total Lead (Pb)	2021/11/25	3.3		%	35
A447137	MFP	Matrix Spike	Total Lead (Pb)	2021/12/17		NC	%	75 - 125
A447137	MFP	QC Standard	Total Lead (Pb)	2021/12/17		110	%	79 - 121
A447137	MFP	Spiked Blank	Total Lead (Pb)	2021/12/17		102	%	80 - 120
A447137	MFP	Method Blank	Total Lead (Pb)	2021/12/17	<0.50		mg/kg	
A447137	MFP	RPD	Total Lead (Pb)	2021/12/17	3.9		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C189409

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form

940



W43939

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: RB-LS-01
Last Sample: CN-RP-10
Sample Count: 61

Relinquished By				Received By			
Jesse Bursee		Date	2021/11/19	Amarjit Bora		Date	2021/11/19
		Time (24 HR)	12:00			Time (24 HR)	1540
		Date		Adam Fishleigh		Date	2021/11/20
		Time (24 HR)				Time (24 HR)	10:10
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information

Sampled By (Print)

of Coolers/Pkgs:

Shane Barry

1

Rush ☐

Immediate Test ☐

Food Residue ☐

Micro ☐

Food Chemistry ☐

*** LABORATORY USE ONLY ***

Received At

Lab Comments:

Labeled By

Verified By

C189409

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	18.4	17.6	16.2
ACTR					
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43939



Project Information: C189409
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

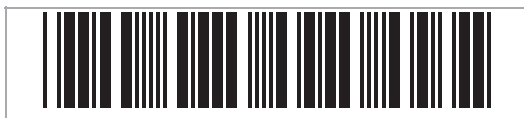
Analytical Summary

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
RB-LS-01	1	2021/11/15 12:45	SOIL	1	A
RB-LS-02	2	2021/11/15 12:50	SOIL	1	A
RB-LS-03	3	2021/11/15 12:55	SOIL	1	A
RB-LS-04	4	2021/11/15 13:00	SOIL	1	A
RB-LS-05	5	2021/11/15 13:05	SOIL	1	A
RB-LS-06	6	2021/11/15 13:10	SOIL	1	A
RB-LS-07	7	2021/11/15 13:15	SOIL	1	A
RB-LS-08	8	2021/11/15 13:20	SOIL	1	A
RB-LS-09	9	2021/11/15 13:25	SOIL	1	A
RB-LS-10	10	2021/11/15 13:30	SOIL	1	A
RB-LS-11	11	2021/11/15 13:35	SOIL	1	A
RB-LS-12	12	2021/11/15 13:40	SOIL	1	A
RB-LS-13	13	2021/11/15 13:45	SOIL	1	A
RB-LS-14	14	2021/11/15 13:50	SOIL	1	A
RB-LS-15	15	2021/11/15 13:55	SOIL	1	A
RB-LS-15D	16	2021/11/15 13:55	SOIL	1	A
RB-LS-16	17	2021/11/15 14:00	SOIL	1	A
CN-RE-01	18	2021/11/15 09:51	SOIL	1	A



eCOC: W43939



Project Information: C189409
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CN-RE-02	19	2021/11/15 09:55	SOIL	1	A
CN-RE-03	20	2021/11/15 09:59	SOIL	1	A
CN-RE-03D	21	2021/11/15 09:59	SOIL	1	A
CN-RE-04	22	2021/11/15 10:03	SOIL	1	A
CN-RE-05	23	2021/11/15 10:07	SOIL	1	A
CN-RE-06	24	2021/11/15 10:15	SOIL	1	A
CN-RE-07	25	2021/11/15 10:20	SOIL	1	A
CN-PA-01	26	2021/11/15 10:40	SOIL	1	A
CN-PA-02	27	2021/11/15 10:44	SOIL	1	A
CN-PA-03	28	2021/11/15 10:48	SOIL	1	A
CN-PA-04	29	2021/11/15 10:52	SOIL	1	A
CN-PA-05	30	2021/11/15 10:56	SOIL	1	A
CN-PA-06	31	2021/11/15 11:00	SOIL	1	A
CN-PA-07	32	2021/11/15 11:04	SOIL	1	A
CN-PA-08	33	2021/11/15 11:08	SOIL	1	A
CN-GD-01	34	2021/11/15 11:25	SOIL	1	A
CN-GD-02	35	2021/11/15 11:29	SOIL	1	A
CN-GD-03	36	2021/11/15 11:33	SOIL	1	A
CN-GD-04	37	2021/11/15 11:37	SOIL	1	A
CN-GD-05	38	2021/11/15 11:41	SOIL	1	A
CN-GD-06	39	2021/11/15 11:45	SOIL	1	A
CN-GD-07	40	2021/11/15 11:50	SOIL	1	A
CN-GP-01	41	2021/11/15 14:20	SOIL	1	A



eCOC: W43939



Project Information: C189409
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

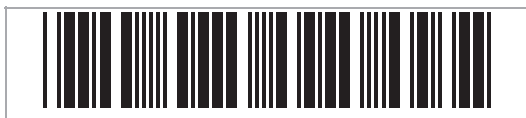
A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CN-GP-02	42	2021/11/15 14:24	SOIL	1	A
CN-GP-03	43	2021/11/15 14:28	SOIL	1	A
CN-GP-04	44	2021/11/15 14:32	SOIL	1	A
CN-GP-05	45	2021/11/15 14:36	SOIL	1	A
CN-GP-06	46	2021/11/15 14:40	SOIL	1	A
CN-GP-06D	47	2021/11/15 14:40	SOIL	1	A
CN-GP-07	48	2021/11/15 14:48	SOIL	1	A
CN-GP-08	49	2021/11/15 14:52	SOIL	1	A
CN-GP-09	50	2021/11/15 14:56	SOIL	1	A
CN-GP-10	51	2021/11/15 15:00	SOIL	1	A
CN-RP-01	52	2021/11/15 15:12	SOIL	1	A
CN-RP-02	53	2021/11/15 15:16	SOIL	1	A
CN-RP-03	54	2021/11/15 15:19	SOIL	1	A
CN-RP-04	55	2021/11/15 15:22	SOIL	1	A
CN-RP-05	56	2021/11/15 15:27	SOIL	1	A
CN-RP-06	57	2021/11/15 15:30	SOIL	1	A
CN-RP-07	58	2021/11/15 15:35	SOIL	1	A
CN-RP-08	59	2021/11/15 15:40	SOIL	1	A
CN-RP-09	60	2021/11/15 15:45	SOIL	1	A
CN-RP-10	61	2021/11/15 15:50	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.



eCOC: W43939



Project Information: C189409
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Submission Information

of Samples: 61

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/15 to 2021/11/17

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Calgary

Consultant Project Number: 10-12553

BV Labs Job Number: C189415

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43941

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/17
Report #: R3109669
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189415

Received: 2021/11/19, 15:40

Sample Matrix: Soil
Samples Received: 70

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead	9	2021/11/24	2021/11/24	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	40	2021/11/24	2021/11/25	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	20	2021/11/25	2021/11/25	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead	1	2021/12/16	2021/12/17	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your P.O. #: PO PENDING
Your Project #: 10-12553
Your C.O.C. #: 43941

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/17
Report #: R3109669
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C189415

Received: 2021/11/19, 15:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

17 Dec 2021 15:24:30

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C189415

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA645			ALA646	ALA647		ALA648		
Sampling Date		2021/11/15 16:00			2021/11/15 16:03	2021/11/15 16:06		2021/11/15 16:09		
COC Number		43941			43941	43941		43941		
	UNITS	CN-CC-01	RDL	QC Batch	CN-CC-02	CN-CC-03	QC Batch	CN-CC-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	14	1.0	A438346	25	13	A438413	12	0.50	A438349
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALA649			ALA650			ALA651	ALA652		
Sampling Date		2021/11/15 16:12			2021/11/15 16:15			2021/11/15 16:19	2021/11/15 16:19		
COC Number		43941			43941			43941	43941		
	UNITS	CN-CC-05	RDL	QC Batch	CN-CC-06	RDL	QC Batch	CN-CC-07	CN-CC-07D	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	9.5	0.50	A438413	25	1.0	A438346	13	17	0.50	A438413
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALA653		ALA654			ALA655	ALA656		
Sampling Date		2021/11/15 16:24		2021/11/15 16:27			2021/11/15 16:30	2021/11/15 16:33		
COC Number		43941		43941			43941	43941		
	UNITS	CN-CC-08	QC Batch	CN-CC-09	RDL	QC Batch	CN-CC-10	CN-CC-11	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	55	A438349	20	0.50	A438413	11	10	1.0	A438346
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALA657		ALA658	ALA659	ALA660		ALA661		
Sampling Date		2021/11/15 16:36		2021/11/15 16:39	2021/11/15 16:42	2021/11/15 16:45		2021/11/15 16:50		
COC Number		43941		43941	43941	43941		43941		
	UNITS	CN-CC-12	QC Batch	CN-CC-13	CN-CC-14	CN-CC-15	QC Batch	CN-CC-16	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	14	A438356	15	17	36	A438346	50	1.0	A438356
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALA662			ALA663	ALA664	ALA665			ALA666		
Sampling Date		2021/11/15 16:54			2021/11/15 16:58	2021/11/15 17:02	2021/11/15 17:12			2021/11/15 17:15		
COC Number		43941			43941	43941	43941			43941		
	UNITS	CN-CC-17	RDL	QC Batch	CN-CC-18	CN-CC-19	CN-CC-20	RDL	QC Batch	CN-CC-21	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	47	0.50	A438356	12	38	8.3	1.0	A438346	120	0.50	A438356
RDL = Reportable Detection Limit												



BUREAU
VERITAS

Bureau Veritas Job #: C189415

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA667	ALA668		ALA669			ALA670	ALA671		
Sampling Date		2021/11/15 17:22	2021/11/15 17:30		2021/11/16 16:00			2021/11/16 16:06	2021/11/16 16:12		
COC Number		43941	43941		43941			43941	43941		
	UNITS	CN-CC-22	CN-CC-23	QC Batch	CN-DP-01	RDL	QC Batch	CN-DP-02	CN-DP-03	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	290	390	A438356	30	1.0	A438346	72	97	0.50	A438356

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA672	ALA673		ALA674	ALA675		ALA676		
Sampling Date		2021/11/16 16:18	2021/11/16 16:24		2021/11/16 16:30	2021/11/16 16:36		2021/11/16 16:42		
COC Number		43941	43941		43941	43941		43941		
	UNITS	CN-DP-04	CN-DP-05	QC Batch	CN-DP-06	CN-DP-07	QC Batch	CN-DP-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	150	94	A438356	46	170	A438346	200	1.0	A438356

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA677		ALA678		ALA679			ALA680	ALA681		
Sampling Date		2021/11/16 16:50		2021/11/17 14:00		2021/11/17 14:04			2021/11/17 14:08	2021/11/17 14:12		
COC Number		43941		43941		43941			43941	43941		
	UNITS	CN-DP-09	RDL	CN-DS-01	RDL	CN-DS-02	RDL	QC Batch	CN-DS-03	CN-DS-04	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	260	0.50	39	1.0	60	0.50	A438356	130	110	1.0	A438346

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA682	ALA683			ALA684		ALA685	ALA686		
Sampling Date		2021/11/17 14:17	2021/11/17 14:17			2021/11/17 14:25		2021/11/17 14:29	2021/11/17 14:33		
COC Number		43941	43941			43941		43941	43941		
	UNITS	CN-DS-05	CN-DS-05D	RDL	QC Batch	CN-DS-06	QC Batch	CN-DS-07	CN-DS-08	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	110	100	1.0	A438346	200	A438356	41	48	0.50	A438349

RDL = Reportable Detection Limit

Bureau Veritas ID		ALA687		ALA688			ALA689		ALA690	ALA691		
Sampling Date		2021/11/17 14:37		2021/11/17 14:40			2021/11/17 14:44		2021/11/17 14:48	2021/11/17 14:55		
COC Number		43941		43941			43941		43941	43941		
	UNITS	CN-DS-09	RDL	CN-DS-10	RDL	QC Batch	CN-DS-11	RDL	CN-DS-12	CN-DS-13	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	300	1.0	62	0.50	A438356	91	1.0	150	63	0.50	A438349

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C189415

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALA692			ALA693	ALA694	ALA695		ALA696		
Sampling Date		2021/11/16 10:30			2021/11/16 10:35	2021/11/16 10:40	2021/11/16 10:40		2021/11/16 10:50		
COC Number		43941			43941	43941	43941		43941		
	UNITS	WT-WM-01	RDL	QC Batch	WT-WM-02	WT-WM-03	WT-WM-03D	RDL	WT-WM-04	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	3400	2.5	A438356	15	140	130	1.0	55	0.50	A438349
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALA697		ALA698	ALA699		ALA700	ALA701		ALA702		
Sampling Date		2021/11/16 10:55		2021/11/16 11:00	2021/11/16 11:05		2021/11/16 11:10	2021/11/16 11:15		2021/11/16 11:20		
COC Number		43941		43941	43941		43941	43941		43941		
	UNITS	WT-WM-05	RDL	WT-WM-06	WT-WM-07	RDL	WT-WM-08	WT-WM-09	RDL	WT-WM-10	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	13	1.0	120	130	0.50	59	16	1.0	67	0.50	A438349
RDL = Reportable Detection Limit												

Bureau Veritas ID		ALA703			ALA704		ALA705			ALA706		
Sampling Date		2021/11/16 11:30			2021/11/16 11:34		2021/11/16 11:38			2021/11/16 11:42		
COC Number		43941			43941		43941			43941		
	UNITS	WT-WP-01	RDL	QC Batch	WT-WP-02	QC Batch	WT-WP-03	RDL	QC Batch	WT-WP-04	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	27	1.0	A438349	200	A438413	130	0.50	A438349	52	1.0	A438356
RDL = Reportable Detection Limit												

Bureau Veritas ID		ALA707		ALA708		ALA709			ALA710		
Sampling Date		2021/11/16 11:42		2021/11/16 11:46		2021/11/16 11:50			2021/11/16 11:54		
COC Number		43941		43941		43941			43941		
	UNITS	WT-WP-04D	QC Batch	WT-WP-05	QC Batch	WT-WP-06	RDL	QC Batch	WT-WP-07	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	45	A438349	75	A438356	110	1.0	A438346	16	0.50	A447137
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALA711	ALA712			ALA713	ALA714		
Sampling Date		2021/11/16 12:00	2021/11/16 12:04			2021/11/16 12:08	2021/11/16 12:12		
COC Number		43941	43941			43941	43941		
	UNITS	WT-WP-08	WT-WP-09	RDL	QC Batch	WT-WP-10	WT-WP-11	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	21	8.1	0.50	A438413	26	11	1.0	A438346
RDL = Reportable Detection Limit									



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.4°C
-----------	--------

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALA645 [CN-CC-01] Lead: Detection limits raised due to sample matrix.
Sample ALA650 [CN-CC-06] Lead: Detection limits raised due to sample matrix.
Sample ALA655 [CN-CC-10] Lead: Detection limits raised due to sample matrix.
Sample ALA656 [CN-CC-11] Lead: Detection limits raised due to sample matrix.
Sample ALA657 [CN-CC-12] Lead: Detection limits raised due to sample matrix.
Sample ALA658 [CN-CC-13] Lead: Detection limits raised due to sample matrix.
Sample ALA659 [CN-CC-14] Lead: Detection limits raised due to sample matrix.
Sample ALA660 [CN-CC-15] Lead: Detection limits raised due to sample matrix.
Sample ALA661 [CN-CC-16] Lead: Detection limits raised due to sample matrix.
Sample ALA663 [CN-CC-18] Lead: Detection limits raised due to sample matrix.
Sample ALA664 [CN-CC-19] Lead: Detection limits raised due to sample matrix.
Sample ALA665 [CN-CC-20] Lead: Detection limits raised due to sample matrix.
Sample ALA667 [CN-CC-22] Lead: Detection limits raised due to sample matrix.
Sample ALA668 [CN-CC-23] Lead: Detection limits raised due to sample matrix.
Sample ALA669 [CN-DP-01] Lead: Detection limits raised due to sample matrix.
Sample ALA672 [CN-DP-04] Lead: Detection limits raised due to sample matrix.
Sample ALA673 [CN-DP-05] Lead: Detection limits raised due to sample matrix.
Sample ALA674 [CN-DP-06] Lead: Detection limits raised due to sample matrix.
Sample ALA675 [CN-DP-07] Lead: Detection limits raised due to sample matrix.
Sample ALA676 [CN-DP-08] Lead: Detection limits raised due to sample matrix.
Sample ALA678 [CN-DS-01] Lead: Detection limits raised due to sample matrix.
Sample ALA680 [CN-DS-03] Lead: Detection limits raised due to sample matrix.
Sample ALA681 [CN-DS-04] Lead: Detection limits raised due to sample matrix.
Sample ALA682 [CN-DS-05] Lead: Detection limits raised due to sample matrix.
Sample ALA683 [CN-DS-05D] Lead: Detection limits raised due to sample matrix.
Sample ALA687 [CN-DS-09] Lead: Detection limits raised due to sample matrix.
Sample ALA689 [CN-DS-11] Lead: Detection limits raised due to sample matrix.
Sample ALA693 [WT-WM-02] Lead: Detection limits raised due to sample matrix.
Sample ALA694 [WT-WM-03] Lead: Detection limits raised due to sample matrix.
Sample ALA695 [WT-WM-03D] Lead: Detection limits raised due to sample matrix.
Sample ALA697 [WT-WM-05] Lead: Detection limits raised due to sample matrix.
Sample ALA700 [WT-WM-08] Lead: Detection limits raised due to sample matrix.
Sample ALA701 [WT-WM-09] Lead: Detection limits raised due to sample matrix.
Sample ALA703 [WT-WP-01] Lead: Detection limits raised due to sample matrix.
Sample ALA706 [WT-WP-04] Lead: Detection limits raised due to sample matrix.
Sample ALA707 [WT-WP-04D] Lead: Detection limits raised due to sample matrix.
Sample ALA708 [WT-WP-05] Lead: Detection limits raised due to sample matrix.
Sample ALA709 [WT-WP-06] Lead: Detection limits raised due to sample matrix.
Sample ALA713 [WT-WP-10] Lead: Detection limits raised due to sample matrix.
Sample ALA714 [WT-WP-11] Lead: Detection limits raised due to sample matrix.

Results relate only to the items tested.



**BUREAU
VERITAS**

Bureau Veritas Job #: C189415

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A438346	MFP	Matrix Spike [ALA682-01]	Total Lead (Pb)	2021/11/25		NC	%	75 - 125
A438346	MFP	QC Standard	Total Lead (Pb)	2021/11/25		87	%	79 - 121
A438346	MFP	Spiked Blank	Total Lead (Pb)	2021/11/25		91	%	80 - 120
A438346	MFP	Method Blank	Total Lead (Pb)	2021/11/25	<0.50		mg/kg	
A438346	MFP	RPD [ALA682-01]	Total Lead (Pb)	2021/11/25	8.8		%	35
A438349	MFP	Matrix Spike [ALA686-01]	Total Lead (Pb)	2021/11/25		97	%	75 - 125
A438349	MFP	QC Standard	Total Lead (Pb)	2021/11/25		107	%	79 - 121
A438349	MFP	Spiked Blank	Total Lead (Pb)	2021/11/25		102	%	80 - 120
A438349	MFP	Method Blank	Total Lead (Pb)	2021/11/25	<0.50		mg/kg	
A438349	MFP	RPD [ALA686-01]	Total Lead (Pb)	2021/11/25	19		%	35
A438356	MFP	Matrix Spike [ALA670-01]	Total Lead (Pb)	2021/11/25		NC	%	75 - 125
A438356	MFP	QC Standard	Total Lead (Pb)	2021/11/25		112	%	79 - 121
A438356	MFP	Spiked Blank	Total Lead (Pb)	2021/11/25		95	%	80 - 120
A438356	MFP	Method Blank	Total Lead (Pb)	2021/11/25	<0.50		mg/kg	
A438356	MFP	RPD [ALA670-01]	Total Lead (Pb)	2021/11/25	10		%	35
A438413	MFP	Matrix Spike	Total Lead (Pb)	2021/11/24		97	%	75 - 125
A438413	MFP	QC Standard	Total Lead (Pb)	2021/11/24		101	%	79 - 121
A438413	MFP	Spiked Blank	Total Lead (Pb)	2021/11/24		92	%	80 - 120
A438413	MFP	Method Blank	Total Lead (Pb)	2021/11/24	<0.50		mg/kg	
A438413	MFP	RPD	Total Lead (Pb)	2021/11/24	6.1		%	35
A447137	MFP	Matrix Spike	Total Lead (Pb)	2021/12/17		NC	%	75 - 125
A447137	MFP	QC Standard	Total Lead (Pb)	2021/12/17		110	%	79 - 121
A447137	MFP	Spiked Blank	Total Lead (Pb)	2021/12/17		102	%	80 - 120
A447137	MFP	Method Blank	Total Lead (Pb)	2021/12/17	<0.50		mg/kg	
A447137	MFP	RPD	Total Lead (Pb)	2021/12/17	3.9		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C189415

Report Date: 2021/12/17

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: PO PENDING

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.



Custody Tracking Form



W43941

Please use this form for custody tracking when submitting the work instructions via eCOC (electronic Chain of Custody). Please ensure your form has a barcode or a Bureau Veritas eCOC confirmation number in the top right hand side. This number links your electronic submission to your samples. This form should be placed in the cooler with your samples.

First Sample: CN-CC-01
Last Sample: WT-WP-11
Sample Count: 70

Relinquished By				Received By			
Jesse Bursell		Date	2021/11/19	Amarigta Bora		Date	2021/11/19
		Time (24 HR)	12:00			Time (24 HR)	1540
		Date		Adam F. Shleigh	SF	Date	2021/11/20
		Time (24 HR)				Time (24 HR)	10:10
		Date				Date	
		Time (24 HR)				Time (24 HR)	

Unless otherwise agreed to, submissions and use of services are governed by Bureau Veritas' standard terms and conditions which can be found at www.bvna.com.

Triage Information			
Sampled By (Print)	# of Coolers/Pkgs:	Rush <input type="checkbox"/>	Food Residue <input type="checkbox"/>
Shane Barry	1	Immediate Test <input type="checkbox"/>	Food Chemistry <input type="checkbox"/>
		Micro <input type="checkbox"/>	

*** LABORATORY USE ONLY ***

Received At _____
Labeled By _____
Verified By _____

Lab Comments:

C189415

Custody Seal		Cooling Media	Temperature °C		
Present (Y/N)	Intact (Y/N)	Present (Y/N)	1	2	3
Y	Y	N	17.5	17.6	17.2
ACTR					
Drinking Water Metals Preservation Check Done (Circle)			YES	NO	

COR FCD-00383/3

Page 1 of 1



eCOC: W43941



Project Information: C189415
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

Invoice Information

Attn: ACCOUNTS PAYABLE
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
parsonsincap.parsons@parsons.com

Report Information

Attn: Gary Karp
PARSONS INC.
7 Terracon Place
WINNIPEG , MB , R2J 4B3
Email to:
gary.karp@parsons.com
calgary.labreport@parsons.com
jesse.bursee@parsons.com

Project Information

Quote #: C10983
PO/AFE#:
Project #: 10-12553
Site Location:

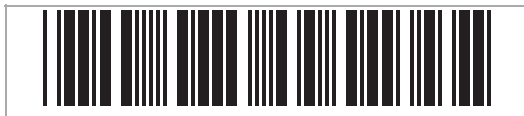
Analytical Summary

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CN-CC-01	1	2021/11/15 16:00	SOIL	1	A
CN-CC-02	2	2021/11/15 16:03	SOIL	1	A
CN-CC-03	3	2021/11/15 16:06	SOIL	1	A
CN-CC-04	4	2021/11/15 16:09	SOIL	1	A
CN-CC-05	5	2021/11/15 16:12	SOIL	1	A
CN-CC-06	6	2021/11/15 16:15	SOIL	1	A
CN-CC-07	7	2021/11/15 16:19	SOIL	1	A
CN-CC-07D	8	2021/11/15 16:19	SOIL	1	A
CN-CC-08	9	2021/11/15 16:24	SOIL	1	A
CN-CC-09	10	2021/11/15 16:27	SOIL	1	A
CN-CC-10	11	2021/11/15 16:30	SOIL	1	A
CN-CC-11	12	2021/11/15 16:33	SOIL	1	A
CN-CC-12	13	2021/11/15 16:36	SOIL	1	A
CN-CC-13	14	2021/11/15 16:39	SOIL	1	A
CN-CC-14	15	2021/11/15 16:42	SOIL	1	A
CN-CC-15	16	2021/11/15 16:45	SOIL	1	A
CN-CC-16	17	2021/11/15 16:50	SOIL	1	A
CN-CC-17	18	2021/11/15 16:54	SOIL	1	A



eCOC: W43941



Project Information: C189415
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CN-CC-18	19	2021/11/15 16:58	SOIL	1	A
CN-CC-19	20	2021/11/15 17:02	SOIL	1	A
CN-CC-20	21	2021/11/15 17:12	SOIL	1	A
CN-CC-21	22	2021/11/15 17:15	SOIL	1	A
CN-CC-22	23	2021/11/15 17:22	SOIL	1	A
CN-CC-23	24	2021/11/15 17:30	SOIL	1	A
CN-DP-01	25	2021/11/16 16:00	SOIL	1	A
CN-DP-02	26	2021/11/16 16:06	SOIL	1	A
CN-DP-03	27	2021/11/16 16:12	SOIL	1	A
CN-DP-04	28	2021/11/16 16:18	SOIL	1	A
CN-DP-05	29	2021/11/16 16:24	SOIL	1	A
CN-DP-06	30	2021/11/16 16:30	SOIL	1	A
CN-DP-07	31	2021/11/16 16:36	SOIL	1	A
CN-DP-08	32	2021/11/16 16:42	SOIL	1	A
CN-DP-09	33	2021/11/16 16:50	SOIL	1	A
CN-DS-01	34	2021/11/17 14:00	SOIL	1	A
CN-DS-02	35	2021/11/17 14:04	SOIL	1	A
CN-DS-03	36	2021/11/17 14:08	SOIL	1	A
CN-DS-04	37	2021/11/17 14:12	SOIL	1	A
CN-DS-05	38	2021/11/17 14:17	SOIL	1	A
CN-DS-05D	39	2021/11/17 14:17	SOIL	1	A
CN-DS-06	40	2021/11/17 14:25	SOIL	1	A
CN-DS-07	41	2021/11/17 14:29	SOIL	1	A



eCOC: W43941



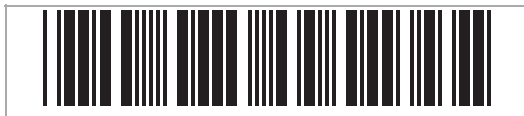
Project Information: C189415
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
CN-DS-08	42	2021/11/17 14:33	SOIL	1	A
CN-DS-09	43	2021/11/17 14:37	SOIL	1	A
CN-DS-10	44	2021/11/17 14:40	SOIL	1	A
CN-DS-11	45	2021/11/17 14:44	SOIL	1	A
CN-DS-12	46	2021/11/17 14:48	SOIL	1	A
CN-DS-13	47	2021/11/17 14:55	SOIL	1	A
WT-WM-01	48	2021/11/16 10:30	SOIL	1	A
WT-WM-02	49	2021/11/16 10:35	SOIL	1	A
WT-WM-03	50	2021/11/16 10:40	SOIL	1	A
WT-WM-03D	51	2021/11/16 10:40	SOIL	1	A
WT-WM-04	52	2021/11/16 10:50	SOIL	1	A
WT-WM-05	53	2021/11/16 10:55	SOIL	1	A
WT-WM-06	54	2021/11/16 11:00	SOIL	1	A
WT-WM-07	55	2021/11/16 11:05	SOIL	1	A
WT-WM-08	56	2021/11/16 11:10	SOIL	1	A
WT-WM-09	57	2021/11/16 11:15	SOIL	1	A
WT-WM-10	58	2021/11/16 11:20	SOIL	1	A
WT-WP-01	59	2021/11/16 11:30	SOIL	1	A
WT-WP-02	60	2021/11/16 11:34	SOIL	1	A
WT-WP-03	61	2021/11/16 11:38	SOIL	1	A
WT-WP-04	62	2021/11/16 11:42	SOIL	1	A
WT-WP-04D	63	2021/11/16 11:42	SOIL	1	A
WT-WP-05	64	2021/11/16 11:46	SOIL	1	A



eCOC: W43941



Project Information: C189415
Job Received: 2021/11/19 15:40
Results Required By: 2021/11/26 15:00
Expected Arrival: 2021/11/19 15:00
Submitted By: Jesse Bursee
Submitted To: Winnipeg

A: 2021/11/26 15:00

Client Sample ID	Clnt Ref	Sampling Date/Time	Matrix	#Cont	Lead
WT-WP-06	65	2021/11/16 11:50	SOIL	1	A
WT-WP-07	66	2021/11/16 11:54	SOIL	1	A
WT-WP-08	67	2021/11/16 12:00	SOIL	1	A
WT-WP-09	68	2021/11/16 12:04	SOIL	1	A
WT-WP-10	69	2021/11/16 12:08	SOIL	1	A
WT-WP-11	70	2021/11/16 12:12	SOIL	1	A

Deadlines are estimates only and are subject to change. Please refer to your Job Confirmation report for final due dates.

Submission Information

of Samples: 70

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/24

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193682

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 10F1

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/23
Report #: R3113362
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193682

Received: 2021/12/02, 16:12

Sample Matrix: Soil
Samples Received: 10

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	10	2021/12/04	2021/12/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF1

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/23
Report #: R3113362
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193682

Received: 2021/12/02, 16:12

Encryption Key

Parminder Virk
Key Account Specialist
23 Dec 2021 16:53:03

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193682
Report Date: 2021/12/23

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALV958	ALV959	ALV960	ALV961	ALV962		ALV963		
Sampling Date		2021/11/24 16:41	2021/11/24 16:45	2021/11/24 16:49	2021/11/24 16:53	2021/11/24 16:57		2021/11/24 17:00		
COC Number		1OF1	1OF1	1OF1	1OF1	1OF1		1OF1		
	UNITS	DM-WS-01	DM-WS-02	DM-WS-03	DM-WS-04	DM-WS-05	RDL	DM-WS-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	4.8	14	6.4	9.6	9.2	1.0	35	0.50	A456100
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALV964		ALV965	ALV966		ALV967		
Sampling Date		2021/11/24 17:08		2021/11/24 17:16	2021/11/24 17:26		2021/11/24 17:35		
COC Number		1OF1		1OF1	1OF1		1OF1		
	UNITS	DM-WS-07	RDL	DM-WS-08	DM-WS-09	RDL	DM-WS-10	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	12	1.0	20	30	0.50	59	1.0	A456100
RDL = Reportable Detection Limit									



BUREAU
VERITAS

Bureau Veritas Job #: C193682

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

GENERAL COMMENTS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALV958 [DM-WS-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV959 [DM-WS-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV960 [DM-WS-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV961 [DM-WS-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV962 [DM-WS-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV964 [DM-WS-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV967 [DM-WS-10] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193682

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A456100	MFP	Matrix Spike [ALV966-01]	Total Lead (Pb)	2021/12/05		107	%	75 - 125
A456100	MFP	QC Standard	Total Lead (Pb)	2021/12/05		119	%	79 - 121
A456100	MFP	Spiked Blank	Total Lead (Pb)	2021/12/05		95	%	80 - 120
A456100	MFP	Method Blank	Total Lead (Pb)	2021/12/05	<0.50		mg/kg	
A456100	MFP	RPD [ALV966-01]	Total Lead (Pb)	2021/12/05	2.0		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C193682

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'H. Groves', written over a horizontal line.

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



www.BVNA.com

Calgary, AB: 4000 19th St. NE, T2E 6P8. Toll Free (800) 386-7247
Edmonton, AB: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

431A

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 1 of 1

Invoice Information				Report Information (if differs from invoice)				Project Information				LAB USE ONLY - PLACE STICKER HERE																																
Invoice To Requires Report: <input type="checkbox"/>																																												
Company:	Parsons Inc.			Company:	Parsons Inc.			Quotation #:	C10983			<div>C193682</div> <div>2021204-019</div>																																
Contact Name:	Accounts Payable			Contact Name:	Gary Karp			P.O. #/ A/E#:	478033.0000002																																			
Street Address:	7 Terracon Place			Street Address:	7 Terracon Place			Project #:	10-12553																																			
City:	Winnipeg	Prov:	MB	Postal Code:	R2J 4B3	City:	Winnipeg	Prov:	MB	Postal Code:	R2J 4B3					Site #:																												
Phone:	204-489-2964			Phone:	204-489-2964			Site Location:				Rush Confirmation #:																																
Email:	parsonsincape.parsons@parsons.com			Email:	gary.karp@parsons.com; jesse.bursee@parsons.com; calgary.labreport@parsons.com			Site Location Province:																																				
Copies:				Copies:				Sampled By:	Bryan Girouard																																			
Regulatory Criteria							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																
<input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____							FIELD FILTERED		FIELD PRESERVED		LAB FILTRATION REQUIRED		BTEX F1		VOC		BTEX F1-F2		BTEX F1-F4		Routine Water		Regulated Metals - Total		Regulated Metals - Dissolved		Mercury - Total		Mercury - Dissolved		Salinity 4		Sieve (75 micron)		Texture (% Sand, Silt, Clay)		Basic Class II Landfill		Lead		# OF CONTAINERS SUBMITTED		HOLD - DO NOT ANALYZE	
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																																												
Sample Identification							Date Sampled		Time (24hr)		Matrix																																	
							YY	MM	DD	HH	MM																																	
1	DM-WS-01						21	11	24	16	41	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
2	DM-WS-02						21	11	24	16	45	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
3	DM-WS-03						21	11	24	16	49	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
4	DM-WS-04						21	11	24	16	53	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
5	DM-WS-05						21	11	24	16	57	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
6	DM-WS-06						21	11	24	17	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
7	DM-WS-07						21	11	24	17	08	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>								
8	DM-WS-08						21	11	24	17	16	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
9	DM-WS-09						21	11	24	17	26	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
10	DM-WS-10						21	11	24	17	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
11													<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
12													<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
13													<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
14													<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							
15													<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY.

LAB USE ONLY				LAB USE ONLY				LAB USE ONLY				LAB USE ONLY			
Seal present	Seal intact	Cooling media present	Temp	Seal present	Seal intact	Cooling media present	Temp	Seal present	Seal intact	Cooling media present	Temp	Seal present	Seal intact	Cooling media present	Temp
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Relinquished by: (Signature/ Print)				Relinquished by: (Signature/ Print)				Relinquished by: (Signature/ Print)				Relinquished by: (Signature/ Print)			
Jesse Bursee				Alan Amanjit Bhat				Reem Phillipos				2021 12 03			
21 12 62 12 30				2021 12 02 16 12				2021 12 03 08 30							

SPECIAL INSTRUCTIONS

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/22 to 2021/11/23

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193697

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121621
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193697

Received: 2021/12/02, 16:12

Sample Matrix: Soil
Samples Received: 30

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	30	2021/12/04	2021/12/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121621
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193697

Received: 2021/12/02, 16:12

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

13 Jan 2022 13:26:59

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C193697

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALV990			ALV991	ALV992		ALV993	ALV994		
Sampling Date		2021/11/22 15:20			2021/11/22 15:25	2021/11/22 15:25		2021/11/22 15:30	2021/11/22 15:35		
COC Number		1OF2			1OF2	1OF2		1OF2	1OF2		
	UNITS	MT-AG-01	RDL	QC Batch	MT-AG-02	MT-AG-02D	QC Batch	MT-AG-03	MT-AG-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	22	0.50	A453698	52	63	A453712	67	28	1.0	A453698
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALV995	ALV996		ALV997	ALV998		ALV999		
Sampling Date		2021/11/22 15:40	2021/11/22 15:45		2021/11/22 15:50	2021/11/22 15:55		2021/11/22 16:00		
COC Number		1OF2	1OF2		1OF2	1OF2		1OF2		
	UNITS	MT-AG-05	MT-AG-06	QC Batch	MT-AG-07	MT-AG-08	QC Batch	MT-AG-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	49	55	A453698	18	68	A453712	36	1.0	A453698
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW000		ALW001	ALW002		ALW003		ALW004		
Sampling Date		2021/11/22 16:10		2021/11/22 16:20	2021/11/22 16:35		2021/11/22 16:39		2021/11/22 16:43		
COC Number		1OF2		1OF2	1OF2		1OF2		1OF2		
	UNITS	MT-AG-10	QC Batch	MT-AG-11	MT-IB-01	RDL	MT-IB-02	RDL	MT-IB-03	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	65	A453712	60	64	1.0	74	0.50	21	1.0	A453698
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW005	ALW006	ALW007	ALW008	ALW009			ALW010		
Sampling Date		2021/11/22 16:48	2021/11/22 16:52	2021/11/22 16:56	2021/11/22 17:00	2021/11/22 17:05			2021/11/22 17:10		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2			1OF2		
	UNITS	MT-IB-04	MT-IB-05	MT-IB-06	MT-IB-07	MT-IB-08	RDL	QC Batch	MT-IB-09	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	150	120	37	150	70	1.0	A453712	20	0.50	A453698
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW011		ALW012		ALW013		ALW014		ALW015		
Sampling Date		2021/11/22 17:15		2021/11/22 09:34		2021/11/22 09:39		2021/11/22 09:43		2021/11/22 09:48		
COC Number		1OF2		1OF2		1OF2		1OF2		1OF2		
	UNITS	MT-IB-10	RDL	HD-LP-03R1	RDL	HD-LP-03R2	RDL	HD-LP-03R3	RDL	HD-LP-03R4	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	110	0.50	990	1.0	490	0.50	110	1.0	130	0.50	A453698
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193697

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW016	ALW017		ALW018		ALW019		
Sampling Date		2021/11/22 10:11	2021/11/22 10:15		2021/11/22 10:18		2021/11/22 10:22		
COC Number		1OF2	1OF2		1OF2		1OF2		
	UNITS	MI-MP-14R1	MI-MP-14R2	RDL	MI-MP-14R3	RDL	MI-MP-14R4	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	62000	88000	50	2300	2.5	950	1.0	A453698
RDL = Reportable Detection Limit									



GENERAL COMMENTS

Version #2: Report re-issued with updated extraction date for some samples.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Matrix Spike Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV991 [MT-AG-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV992 [MT-AG-02D] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV993 [MT-AG-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV994 [MT-AG-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV995 [MT-AG-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV996 [MT-AG-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV997 [MT-AG-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV998 [MT-AG-08] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALV999 [MT-AG-09] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW000 [MT-AG-10] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW001 [MT-AG-11] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW002 [MT-IB-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW004 [MT-IB-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW005 [MT-IB-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW006 [MT-IB-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW007 [MT-IB-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW008 [MT-IB-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW009 [MT-IB-08] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW012 [HD-LP-03R1] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW014 [HD-LP-03R3] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW017 [MI-MP-14R2] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW018 [MI-MP-14R3] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW019 [MI-MP-14R4] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193697

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A453698	MFP	Matrix Spike [ALW019-01]	Total Lead (Pb)	2021/12/05		NC	%	75 - 125
A453698	MFP	QC Standard	Total Lead (Pb)	2021/12/05		108	%	79 - 121
A453698	MFP	Spiked Blank	Total Lead (Pb)	2021/12/05		100	%	80 - 120
A453698	MFP	Method Blank	Total Lead (Pb)	2021/12/05	<0.50		mg/kg	
A453698	MFP	RPD [ALW019-01]	Total Lead (Pb)	2021/12/05	5.3		%	35
A453712	MFP	Matrix Spike [ALW006-01]	Total Lead (Pb)	2021/12/05		NC	%	75 - 125
A453712	MFP	QC Standard	Total Lead (Pb)	2021/12/05		104	%	79 - 121
A453712	MFP	Spiked Blank	Total Lead (Pb)	2021/12/05		99	%	80 - 120
A453712	MFP	Method Blank	Total Lead (Pb)	2021/12/05	<0.50		mg/kg	
A453712	MFP	RPD [ALW006-01]	Total Lead (Pb)	2021/12/05	0.42		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C193697

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in blue ink, appearing to read "H. Groves", written over a horizontal line.

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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Winnipeg, MB: D-675 Berry St. R3H 1A7, Toll Free (866) 800-6208

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CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

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Invoice Information					Report Information (if differs from invoice)					Project Information					LAB USE ONLY - PLACE STICKER HERE										
Company:	Parsons Inc.				Company:	Parsons Inc.				Quotation #:	C10983				LAB USE ONLY - PLACE STICKER HERE C193697 Rush Confirmation #: 20211204-034										
Contact Name:	Accounts Payable				Contact Name:	Gary Karp				P.O. #/ AFE#:	478033.0000002														
Street Address:	7 Terracon Place				Street Address:	7 Terracon Place				Project #:	10-12553														
City:	Winnipeg	Prov:	MB	Postal Code:	R2J 4B3	City:	Winnipeg	Prov:	MB	Postal Code:	R2J 4B3	Site #:													
Phone:	204-489-2964				Phone:	204-489-2964				Site Location:															
Email:	parsonsincape.parsons@parsons.com				Email:	gary.karp@parsons.com; jesse.burse@parsons.com; calgary.labreport@parsons.com				Site Location Province:															
Copies:					Copies:					Sampled By:	Bryan Girouard														
Regulatory Criteria																									
<input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____																									
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																									
Sample Identification						Date Sampled		Time (24hr)		Matrix															
						YY	MM	DD	HH																
1						21	11	22	15	20	Soil														
2						21	11	22	15	25	Soil														
3						21	11	22	15	25	Soil														
4						21	11	22	15	30	Soil														
5						21	11	22	15	35	Soil														
6						21	11	22	15	40	Soil														
7						21	11	22	15	45	Soil														
8						21	11	22	15	50	Soil														
9						21	11	22	15	55	Soil														
10						21	11	22	16	00	Soil														
11						21	11	22	16	10	Soil														
12						21	11	22	16	20	Soil														
13						21	11	22	16	35	Soil														
14						21	11	22	16	39	Soil														
15						21	11	22	16	43	Soil														
*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY																									
LAB USE ONLY					LAB USE ONLY					LAB USE ONLY					TEMP BY:										
Seal present					Seal present					Seal present															
Seal intact					Seal intact					Seal intact															
Cooling media present					Cooling media present					Cooling media present															
Relinquished by: (Signature/ Print)					Relinquished by: (Signature/ Print)					Relinquished by: (Signature/ Print)					SPECIAL INSTRUCTIONS										
Jesse Bursee					Bryan Brooklyn Hiebert					2021															
21 12 02 12 30					21 12 02 16 12					2021 12 03 08 30															



CHAIN OF CUSTODY RECORD

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C193697

CONTINUED

[PAGE 1 REFERENCE]

Company:	Parsons Inc.
Contact Name:	Gary Karp
Project #:	10-12553

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

[illegible]

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/23

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193701

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	The matrix duplicate RPD for Total Lead (88%) is above the acceptance criteria. All other laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD		X		
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/10

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121641
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193701

Received: 2021/12/02, 16:12

Sample Matrix: Soil
Samples Received: 42

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	20	2021/12/04	2021/12/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/12/04	2021/12/23	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/12/05	2021/12/06	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/12/22	2021/12/23	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121641
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193701

Received: 2021/12/02, 16:12

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

13 Jan 2022 15:10:24

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

BUREAU
VERITAS

Bureau Veritas Job #: C193701

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW027	ALW028		ALW029	ALW030	ALW031		ALW032		
Sampling Date		2021/11/23 12:40	2021/11/23 12:44		2021/11/23 12:48	2021/11/23 12:52	2021/11/23 12:56		2021/11/23 13:00		
COC Number		1OF2	1OF2		1OF2	1OF2	1OF2		1OF2		
	UNITS	DM-HP-01	DM-HP-02	RDL	DM-HP-03	DM-HP-04	DM-HP-05	QC Batch	DM-HP-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	240	170	0.50	53	42	30	A453712	73	1.0	A453778
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW033	ALW034	ALW035	ALW036	ALW037	ALW038	ALW039		
Sampling Date		2021/11/23 13:06	2021/11/23 13:06	2021/11/23 13:12	2021/11/23 13:23	2021/11/23 13:28	2021/11/23 13:33	2021/11/23 13:38		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2	1OF2	1OF2		
	UNITS	DM-HP-07	DM-HP-07D	DM-HP-08	DM-JK-01	DM-JK-02	DM-JK-03	DM-JK-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	63	58	72	26	22	14	12	1.0	A453778
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW040	ALW041		ALW042	ALW043			ALW044		
Sampling Date		2021/11/23 13:43	2021/11/23 13:48		2021/11/23 13:53	2021/11/23 13:53			2021/11/23 13:58		
COC Number		1OF2	1OF2		1OF2	1OF2			1OF2		
	UNITS	DM-JK-05	DM-JK-06	QC Batch	DM-JK-07	DM-JK-07D	RDL	QC Batch	DM-JK-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	13	13	A453778	7.5	5.2	1.0	A453723	11	0.50	A453778
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW045		ALW046	ALW047		ALW048	ALW049		
Sampling Date		2021/11/23 14:03		2021/11/23 14:30	2021/11/23 14:33		2021/11/23 14:36	2021/11/23 14:39		
COC Number		1OF2		1OF2	1OF2		1OF2	1OF2		
	UNITS	DM-JK-09	RDL	DM-ML-01	DM-ML-02	QC Batch	DM-ML-03	DM-ML-04	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	11	0.50	48	29	A453778	84	220	1.0	A453723
-----------------	-------	----	------	----	----	---------	----	-----	-----	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW050	ALW051	ALW052	ALW053	ALW054		ALW055		
Sampling Date		2021/11/23 14:43	2021/11/23 14:43	2021/11/23 14:47	2021/11/23 14:50	2021/11/23 15:04		2021/11/23 15:08		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2		1OF2		
	UNITS	DM-ML-05	DM-ML-05D	DM-ML-06	DM-ML-07	DM-JP-01	QC Batch	DM-JP-02	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	150	150	89	36	150	A453712	310	1.0	A453778
-----------------	-------	-----	-----	----	----	-----	---------	-----	-----	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193701
Report Date: 2022/01/13

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW056	ALW057	ALW058	ALW059		ALW060	ALW061		
Sampling Date		2021/11/23 15:12	2021/11/23 15:16	2021/11/23 15:20	2021/11/23 15:24		2021/11/23 15:30	2021/11/23 15:35		
COC Number		1OF2	1OF2	1OF2	1OF2		1OF2	1OF2		
	UNITS	DM-JP-03	DM-JP-04	DM-JP-05	DM-JP-06	QC Batch	DM-JP-07	DM-JP-08	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	97	110	16	91	A453778	140	18	1.0	A453723
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW062	ALW063	ALW064	ALW065			ALW066		
Sampling Date		2021/11/23 15:40	2021/11/23 15:45	2021/11/23 16:00	2021/11/23 16:07			2021/11/23 16:14		
COC Number		1OF2	1OF2	1OF2	1OF2			1OF2		
	UNITS	DM-JP-09	DM-JP-10	DM-LP-01	DM-LP-02	RDL	QC Batch	DM-LP-03	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	70 (1)	140	53	71	1.0	A453723	58	0.50	A453778
RDL = Reportable Detection Limit										
(1) Duplicate exceeds acceptance criteria due to sample non homogeneity. Reanalysis yields similar results.										

Bureau Veritas ID		ALW067	ALW068		
Sampling Date		2021/11/23 16:21	2021/11/23 14:52		
COC Number		1OF2	1OF2		
	UNITS	DM-LP-04	DM-ML-08	RDL	QC Batch
Elements					
Total Lead (Pb)	mg/kg	230	100	1.0	A453723
RDL = Reportable Detection Limit					



GENERAL COMMENTS

Version #2: Report reissued to amend client sample IDs as per the original Chain of Custody.

DM-HP-0D to DM-HP-07D

GM-HP-08 to DM-HP-08

Version #3: Report re-issued with updated extraction date for some samples.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Matrix Spike Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW029 [DM-HP-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW030 [DM-HP-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW031 [DM-HP-05] Lead: Detection limits raised based on sample weight used for analysis.

Matrix Spike Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW032 [DM-HP-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW033 [DM-HP-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW034 [DM-HP-07D] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW035 [DM-HP-08] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW036 [DM-JK-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW037 [DM-JK-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW038 [DM-JK-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW039 [DM-JK-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW040 [DM-JK-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW041 [DM-JK-06] Lead: Detection limits raised based on sample weight used for analysis.

Matrix Spike Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW042 [DM-JK-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW043 [DM-JK-07D] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW046 [DM-ML-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW047 [DM-ML-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW048 [DM-ML-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW049 [DM-ML-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW050 [DM-ML-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW051 [DM-ML-05D] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW052 [DM-ML-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW053 [DM-ML-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW054 [DM-JP-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW055 [DM-JP-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW056 [DM-JP-03] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW057 [DM-JP-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW058 [DM-JP-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW059 [DM-JP-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW060 [DM-JP-07] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW061 [DM-JP-08] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW062 [DM-JP-09] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW063 [DM-JP-10] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW064 [DM-LP-01] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW065 [DM-LP-02] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW067 [DM-LP-04] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW068 [DM-ML-08] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A453712	MFP	Matrix Spike	Total Lead (Pb)	2021/12/05		NC	%	75 - 125
A453712	MFP	QC Standard	Total Lead (Pb)	2021/12/05		104	%	79 - 121
A453712	MFP	Spiked Blank	Total Lead (Pb)	2021/12/05		99	%	80 - 120
A453712	MFP	Method Blank	Total Lead (Pb)	2021/12/05	<0.50		mg/kg	
A453712	MFP	RPD	Total Lead (Pb)	2021/12/05	0.42		%	35
A453723	MFP	Matrix Spike [ALW062-01]	Total Lead (Pb)	2021/12/05		NC	%	75 - 125
A453723	MFP	QC Standard	Total Lead (Pb)	2021/12/05		105	%	79 - 121
A453723	MFP	Spiked Blank	Total Lead (Pb)	2021/12/05		99	%	80 - 120
A453723	MFP	Method Blank	Total Lead (Pb)	2021/12/05	<0.50		mg/kg	
A453723	MFP	RPD [ALW062-01]	Total Lead (Pb)	2021/12/05	88 (1)		%	35
A453778	MFP	Matrix Spike [ALW037-01]	Total Lead (Pb)	2021/12/06		82	%	75 - 125
A453778	MFP	QC Standard	Total Lead (Pb)	2021/12/06		104	%	79 - 121
A453778	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		99	%	80 - 120
A453778	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A453778	MFP	RPD [ALW037-01]	Total Lead (Pb)	2021/12/06	5.9		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C193701

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

Sze Yeung Fock, B.Sc., Scientific Specialist

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ENV COC - 00013v0

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CHAIN OF CUSTODY RECORD

20211204-038
C193701 Page

Page 2 of 2

[PAGE 1 REFERENCE]

Company:	Parsons Inc.
Contact Name:	Gary Karp
Project #:	10-12553

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Sample Identification		Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATED	BTEX F1-F4	VOC	BTEX F1-F2	BTEX F3-F4	Routine Water	Regulab	Regulated Metals	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 mic)	Texture (% silt)	Basic Class II	Lead				# OF CONTAINERS	HOLD - DO NOT OPEN	COMMENTS
		YY	MM	DD	HH	MM																								
16	DM-JK-07	21	11	23	13	53	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
17	DM-JK-07D	21	11	23	13	53	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
18	DM-JK-08	21	11	23	13	58	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
19	DM-JK-09	21	11	23	14	03	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
20	DM-ML-01	21	11	23	14	30	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
21	DM-ML-02	21	11	23	14	33	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
22	DM-ML-03	21	11	23	14	36	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
23	DM-ML-04	21	11	23	14	39	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
24	DM-ML-05	21	11	23	14	43	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
25	DM-ML-05D	21	11	23	14	43	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
26	DM-ML-06	21	11	23	14	47	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
27	DM-ML-07	21	11	23	14	50	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
28	DM-JP-01	21	11	23	15	04	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
29	DM-JP-02	21	11	23	15	08	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
30	DM-JP-03	21	11	23	15	12	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
31	DM-JP-04	21	11	23	15	16	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
32	DM-JP-05	21	11	23	15	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
33	DM-JP-06	21	11	23	15	24	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
34	DM-JP-07	21	11	23	15	30	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
35	DM-JP-08	21	11	23	15	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
36	DM-JP-09	21	11	23	15	40	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
37	DM-JP-10	21	11	23	15	45	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
38	DM-LP-01	21	11	23	16	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
39	DM-LP-02	21	11	23	16	07	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
40	DM-LP-03	21	11	23	16	14	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
41	DM-LP-04	21	11	23	16	21	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
42	DM-ML-08	21	11	23	14	52	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
43								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
44								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/24

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193705

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121635
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193705

Received: 2021/12/02, 16:12

Sample Matrix: Soil
Samples Received: 37

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	36	2021/12/06	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	1	2021/12/06	2021/12/08	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121635
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193705

Received: 2021/12/02, 16:12

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

13 Jan 2022 15:11:28

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C193705

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW080	ALW081	ALW082	ALW083	ALW084		ALW085		
Sampling Date		2021/11/24	2021/11/24	2021/11/24	2021/11/24	2021/11/24		2021/11/24		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2		1OF2		
	UNITS	AB-LS-01	AB-LS-02	AB-LS-03	AB-LS-04	AB-LS-05	QC Batch	AB-LS-06	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	21	22	77	18	25	A453889	15	0.50	A453898
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW086	ALW087		ALW088	ALW089		ALW090		
Sampling Date		2021/11/24	2021/11/24		2021/11/24	2021/11/24		2021/11/24		
COC Number		1OF2	1OF2		1OF2	1OF2		1OF2		
	UNITS	AB-LS-07	AB-LS-08	QC Batch	AB-LS-09	AB-LS-10	QC Batch	AB-LS-11	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	21	19	A453898	17	19	A453889	20	0.50	A453898
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW091	ALW092	ALW093	ALW094		ALW095	ALW096		
Sampling Date		2021/11/24	2021/11/24	2021/11/24	2021/11/24		2021/11/24	2021/11/24		
COC Number		1OF2	1OF2	1OF2	1OF2		1OF2	1OF2		
	UNITS	AB-LS-12	AB-LP-01	AB-LP-02	AB-LP-03	QC Batch	AB-LP-04	AB-LP-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	25	28	20	25	A453898	24	16	0.50	A453889
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW097	ALW098		ALW099		ALW100	ALW101		
Sampling Date		2021/11/24	2021/11/24		2021/11/24		2021/11/24	2021/11/24		
COC Number		1OF2	1OF2		1OF2		1OF2	1OF2		
	UNITS	AB-LP-06	AB-LP-06D	QC Batch	AB-LP-07	QC Batch	AB-LP-08	AB-LP-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	25	25	A453889	20	A453898	12	26	0.50	A453889
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW102	ALW103	ALW104	ALW105	ALW106	ALW107	ALW108		
Sampling Date		2021/11/24	2021/11/24	2021/11/24	2021/11/24	2021/11/24	2021/11/24	2021/11/24		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2	1OF2	1OF2		
	UNITS	AB-LP-10	AB-LP-11	AB-LP-12	AB-LP-13	AB-CP-01	AB-CP-02	AB-CP-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	25	17	25	26	40	12	14	0.50	A453889
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C193705

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW109		ALW110	ALW111	ALW112		ALW113		
Sampling Date		2021/11/24		2021/11/24	2021/11/24	2021/11/24		2021/11/24		
COC Number		1OF2		1OF2	1OF2	1OF2		1OF2		
	UNITS	AB-CP-04	QC Batch	AB-CP-05	AB-CP-06	AB-CP-07	QC Batch	AB-CP-08	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	11	A453898	12	11	22	A453783	14	0.50	A453898
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW114		ALW115		ALW116		
Sampling Date		2021/11/24		2021/11/24		2021/11/24		
COC Number		1OF2		1OF2		1OF2		
	UNITS	AB-CP-09	QC Batch	AB-CP-10	QC Batch	AB-CP-11	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	38	A453898	10	A453783	13	0.50	A453898
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193705

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

GENERAL COMMENTS

Version #2: Report re-issued with updated extraction date for some samples.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193705

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A453783	MFP	Matrix Spike	Total Lead (Pb)	2021/12/07		92	%	75 - 125
A453783	MFP	QC Standard	Total Lead (Pb)	2021/12/07		118	%	79 - 121
A453783	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		102	%	80 - 120
A453783	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A453783	MFP	RPD	Total Lead (Pb)	2021/12/07	4.0		%	35
A453889	MFP	Matrix Spike [ALW082-01]	Total Lead (Pb)	2021/12/07		NC	%	75 - 125
A453889	MFP	QC Standard	Total Lead (Pb)	2021/12/07		109	%	79 - 121
A453889	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		94	%	80 - 120
A453889	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A453889	MFP	RPD [ALW082-01]	Total Lead (Pb)	2021/12/07	1.3		%	35
A453898	MFP	Matrix Spike [ALW090-01]	Total Lead (Pb)	2021/12/07		85	%	75 - 125
A453898	MFP	QC Standard	Total Lead (Pb)	2021/12/07		104	%	79 - 121
A453898	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		94	%	80 - 120
A453898	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A453898	MFP	RPD [ALW090-01]	Total Lead (Pb)	2021/12/07	6.9		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C193705

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read 'H. Groves', written over a horizontal line.

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

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CHAIN OF CUSTODY RECORD

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Invoice Information						Report Information (if differs from invoice)						Project Information						LAB USE ONLY - PLACE STICKER HERE <div>C193705</div> <div>Rush Confirmation #:</div> <div>20211204-042</div>																					
Company : Parsons Inc.						Company: Parsons Inc.						Quotation #: C10983																											
Contact Name: Accounts Payable						Contact Name: Gary Karp						P.O. #/ AFE#: 478033.0000002																											
Street Address: 7 Terracon Place						Street Address: 7 Terracon Place						Project #: 10-12553																											
City: Winnipeg Prov: MB Postal Code: R2J 4B3						City: Winnipeg Prov: MB Postal Code: R2J 4B3						Site #:																											
Phone: 204-489-2964						Phone: 204-489-2964						Site Location:																											
Email: parsonsincap.parsons@parsons.com						Email: gary.karp@parsons.com; jesse.bursee@parsons.com; calgary.labreport@parsons.com						Site Location Province:																											
Copies:						Copies:						Sampled By: Bryan Girouard																											
Regulatory Criteria																																							
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<input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____																								Rush TurnAround Time (TAT) - Surcharges apply <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 DAY															
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Sample Identification						Date Sampled			Time (24hr)			Matrix			FIELD FILTERED FIELD PRESERVED LAB FILTRATION REQUIRED BTEX F1 VOC BTEX F1-F2 BTEX F1-F4 Routine Water Regulated Metals - Total Regulated Metals - Dissolved Mercury - Total Mercury - Dissolved Salinity 4 Sieve (75 micron) Texture (% Sand, Silt, Clay) Basic Class II Landfill Lead # OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE																								
						YY	MM	DD	HH	MM																													
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*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY																																							
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ENV COC - 00013v0

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Company:	Parsons Inc.																																								
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44								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>											

Same as Above

COMMENTS

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/24

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193707

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	The matrix spike recovery for Total Lead (58%) is below the acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			All other laboratory QC met acceptance criteria.
Matrix Duplicate RPD	X			
Matrix Spike Recovery		X		
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Data Reviewed by (Signature):

Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/23
Report #: R3113241
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193707

Received: 2021/12/02, 16:12

Sample Matrix: Soil
Samples Received: 36

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	36	2021/12/06	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/23
Report #: R3113241
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193707

Received: 2021/12/02, 16:12

Encryption Key

Parminder Virk
Key Account Specialist
23 Dec 2021 16:02:01

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193707

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW121	ALW122		ALW123		ALW124		ALW125		
Sampling Date		2021/11/24 10:00	2021/11/24 10:05		2021/11/24 10:10		2021/11/24 10:15		2021/11/24 10:20		
COC Number		1 OF 2	1 OF 2		1 OF 2		1 OF 2		1 OF 2		
	UNITS	AB-SJ-01	AB-SJ-02	QC Batch	AB-SJ-03	QC Batch	AB-SJ-04	QC Batch	AB-SJ-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	15	34	A453868	25	A453783	45	A453868	28	0.50	A453783
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW126	ALW127	ALW128	ALW129	ALW130	ALW131	ALW132		
Sampling Date		2021/11/24 10:25	2021/11/24 10:35	2021/11/24 10:40	2021/11/24 10:45	2021/11/24 10:50	2021/11/24 10:52	2021/11/24 10:55		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2		
	UNITS	AB-SJ-06	AB-SJ-07	AB-SJ-08	AB-SJ-09	AB-SJ-10	AB-SJ-11	AB-SJ-12	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	20	21 (1)	22	65	190	28	39	0.50	A453868
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RDL = Reportable Detection Limit

(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas ID		ALW133		ALW134		ALW135	ALW136	ALW137		
Sampling Date		2021/11/24 11:00		2021/11/24 11:20		2021/11/24 11:25	2021/11/24 11:30	2021/11/24 11:35		
COC Number		1 OF 2		1 OF 2		1 OF 2	2 OF 2	2 OF 2		
	UNITS	AB-SJ-13	QC Batch	AB-SJ-14	QC Batch	AB-SJ-15	AB-SJ-16	AB-SJ-17	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	26	A453868	29	A453783	26	12	38	0.50	A453868
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW138	ALW139	ALW140	ALW141		ALW142	ALW143		
Sampling Date		2021/11/24 11:40	2021/11/24 11:45	2021/11/24 12:00	2021/11/24 12:00		2021/11/24 12:05	2021/11/24 12:08		
COC Number		2 OF 2	2 OF 2	2 OF 2	2 OF 2		2 OF 2	2 OF 2		
	UNITS	AB-SJ-18	AB-SJ-19	AB-SJ-20	AB-SJ-20D	QC Batch	AB-SJ-21	AB-SJ-22	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	21	15	6.5	7.7	A453868	32	29	0.50	A453783
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193707

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW144	ALW145	ALW146		ALW147		ALW148		
Sampling Date		2021/11/24 12:12	2021/11/24 12:15	2021/11/24 12:27		2021/11/24 12:32		2021/11/24 12:32		
COC Number		2 OF 2	2 OF 2	2 OF 2		2 OF 2		2 OF 2		
	UNITS	AB-SJ-23	AB-SJ-24	AB-LM-01	QC Batch	AB-LM-02	QC Batch	AB-LM-02D	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	17	51	43	A453783	21	A453868	20	0.50	A453783
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW149	ALW150		ALW151		ALW152	ALW153		
Sampling Date		2021/11/24 12:37	2021/11/24 12:42		2021/11/24 12:47		2021/11/24 12:52	2021/11/24 12:57		
COC Number		2 OF 2	2 OF 2		2 OF 2		2 OF 2	2 OF 2		
	UNITS	AB-LM-03	AB-LM-04	QC Batch	AB-LM-05	QC Batch	AB-LM-06	AB-LM-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	18	16	A453783	39	A453868	20	14	0.50	A453783
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW154	ALW155	ALW156		
Sampling Date		2021/11/24 13:02	2021/11/24 13:07	2021/11/24 13:12		
COC Number		2 OF 2	2 OF 2	2 OF 2		
	UNITS	AB-LM-08	AB-LM-09	AB-LM-10	RDL	QC Batch
Elements						
Total Lead (Pb)	mg/kg	15	13	25	0.50	A453783
RDL = Reportable Detection Limit						



**BUREAU
VERITAS**

Bureau Veritas Job #: C193707

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193707

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A453783	MFP	Matrix Spike [ALW146-01]	Total Lead (Pb)	2021/12/07		92	%	75 - 125
A453783	MFP	QC Standard	Total Lead (Pb)	2021/12/07		118	%	79 - 121
A453783	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		102	%	80 - 120
A453783	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A453783	MFP	RPD [ALW146-01]	Total Lead (Pb)	2021/12/07	4.0		%	35
A453868	MFP	Matrix Spike [ALW127-01]	Total Lead (Pb)	2021/12/07		58 (1)	%	75 - 125
A453868	MFP	QC Standard	Total Lead (Pb)	2021/12/07		115	%	79 - 121
A453868	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		93	%	80 - 120
A453868	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A453868	MFP	RPD [ALW127-01]	Total Lead (Pb)	2021/12/07	3.4		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C193707

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

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Edmonton, AB: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

432

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 1 of 2

Invoice Information					Report Information (if differs from invoice)					Project Information					<div style="text-align: center;"> <p>C193707</p> <p>LAB USE ONLY - PLACE STICKER HERE</p> <p>2021204-044</p> </div>															
Company: Parsons Inc.					Company: Parsons Inc.					Quotation #: C10983																				
Contact Name: Accounts Payable					Contact Name: Gary Karp					P.O. #/ AFE#: 478033.0000002																				
Street Address: 7 Terracon Place					Street Address: 7 Terracon Place					Project #: 10-12553																				
City:	Winnipeg	Prov:	MB	Postal Code: R2J 4B3	City:	Winnipeg	Prov:	MB	Postal Code: R2J 4B3	Site #:																				
Phone: 204-489-2964					Phone: 204-489-2964					Site Location:																				
Email: parsonsinap.parsons@parsons.com					Email: gary.karp@parsons.com; jesse.bursee@parsons.com; calgary.labreport@parsons.com					Site Location Province:																				
Copies:					Copies:					Sampled By: Bryan Girouard																				
Regulatory Criteria										<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____ </div> <div> <p>Regular TurnAround Time (TAT)</p> <input type="checkbox"/> 5 to 7 days <input checked="" type="checkbox"/> 10 days <p>Rush TurnAround Time (TAT) - Surcharges apply</p> <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 DAY </div> </div>																				
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																														
Sample Identification		Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX F1	VOC	BTEX F1-F2	BTEX F1-F4	Routine Water	Regulated Metals - Total	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class I Landfill	Lead	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE	Date Required:			COMMENTS
		YY	MM	DD	HH	MM																					YY	MM	DD	
1	AB-SI-01	21	11	24	10	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
2	AB-SI-02	21	11	24	10	05	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
3	AB-SI-03	21	11	24	10	10	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
4	AB-SI-04	21	11	24	10	15	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
5	AB-SI-05	21	11	24	10	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
6	AB-SI-06	21	11	24	10	25	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
7	AB-SI-07	21	11	24	10	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
8	AB-SI-08	21	11	24	10	40	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
9	AB-SI-09	21	11	24	10	45	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
10	AB-SI-10	21	11	24	10	50	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
11	AB-SI-11	21	11	24	10	52	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
12	AB-SI-12	21	11	24	10	55	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
13	AB-SI-13	21	11	24	11	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
14	AB-SI-14	21	11	24	11	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
15	AB-SI-15	21	11	24	11	25	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>				
<p>*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY</p>																														
LAB USE ONLY										LAB USE ONLY										LAB USE ONLY										
Seal present <input checked="" type="checkbox"/>										Seal present <input checked="" type="checkbox"/>										Seal present <input type="checkbox"/>										
Seal intact <input checked="" type="checkbox"/>										Seal intact <input checked="" type="checkbox"/>										Seal intact <input type="checkbox"/>										
Cooling media present <input type="checkbox"/>										Cooling Media Present <input checked="" type="checkbox"/>										Cooling Media Present <input type="checkbox"/>										
Relinquished by: (Signature/ Print)										Relinquished by: (Signature/ Print)										SPECIAL INSTRUCTIONS										
Jesse Bursee										Brooklyn Hiebert																				
21 12 02 12 30										21 12 03 08 30																				
										Reem Phillipos																				



CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

©193707
20211204-044 Page 2 of 2

CONTINUED

[PAGE 1 REFERENCE]

Company:	Parsons Inc.
Contact Name:	Gary Karp
Project #:	10-12553

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

[illegible]

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/18

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193734

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD			X	
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your Project #: 10-12553
Your C.O.C. #: 1OF1

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/20
Report #: R3110329
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193734

Received: 2021/11/30, 14:40

Sample Matrix: Soil
Samples Received: 8

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	8	2021/12/03	2021/12/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your Project #: 10-12553
Your C.O.C. #: 1OF1

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/20
Report #: R3110329
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193734

Received: 2021/11/30, 14:40

Encryption Key

Parminder Virk
Key Account Specialist
20 Dec 2021 10:11:35

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C193734

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW259	ALW260	ALW261	ALW262	ALW263	ALW264	ALW265		
Sampling Date		2021/11/18 12:00	2021/11/18 12:05	2021/11/18 12:10	2021/11/18 12:10	2021/11/18 12:15	2021/11/18 12:20	2021/11/18 12:25		
COC Number		1OF1	1OF1	1OF1	1OF1	1OF1	1OF1	1OF1		
	UNITS	BL-PD-01	BL-PD-02	BL-PD-03	BL-PD-03D	BL-PD-04	BL-PD-05	BL-PD-06	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	50	17	12	9.3	39	18	140	1.0	A449045
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW266		
Sampling Date		2021/11/18 12:30		
COC Number		1OF1		
	UNITS	BL-PD-07	RDL	QC Batch
Elements				
Total Lead (Pb)	mg/kg	9.5	0.50	A449045
RDL = Reportable Detection Limit				



BUREAU
VERITAS

Bureau Veritas Job #: C193734

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: SB

GENERAL COMMENTS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALW259 [BL-PD-01] Lead: Detection limits raised due to sample matrix.

Sample ALW260 [BL-PD-02] Lead: Detection limits raised due to sample matrix.

Sample ALW261 [BL-PD-03] Lead: Detection limits raised due to sample matrix.

Sample ALW262 [BL-PD-03D] Lead: Detection limits raised due to sample matrix.

Sample ALW263 [BL-PD-04] Lead: Detection limits raised due to sample matrix.

Sample ALW264 [BL-PD-05] Lead: Detection limits raised due to sample matrix.

Sample ALW265 [BL-PD-06] Lead: Detection limits raised due to sample matrix.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193734

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC								
Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A449045	LQ1	QC Standard	Total Lead (Pb)	2021/12/07		104	%	79 - 121
A449045	LQ1	Spiked Blank	Total Lead (Pb)	2021/12/07		94	%	80 - 120
A449045	LQ1	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.								
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								



BUREAU
VERITAS

Bureau Veritas Job #: C193734

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Invoice Information				Report Information (if differs from Invoice)				Project Information			
Company:		Parsons Inc.		Company:		Parsons Inc.		Quotation #:		C10983	
Contact Name:		Accounts Payable		Contact Name:		Gary Karp		P.O. #/ Affili:		478033.000002	
Street Address:		7 Terracon Place		Street Address:		7 Terracon Place		Project #:		10-12533	
City:		Winnipeg		City:		Winnipeg		Site #:		R2J 4B3	
Phone:		204-489-2964		Phone:		204-489-2964		Site Location:			
Email:		parsonslncap.parsons@parsons.com		Email:		gary.karp@parsons.com, jess.bursee@parsons.com, cglary.labreport@parsons.com		Site Location Province:			
Copies:				Copies:				Sampled By:		Shane Barry	
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____ </div> <div> Regulatory Criteria </div> </div>											
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS											
Sample Identification				Date Sampled		Time (24hr)		Matrix			
	YY	MM	DD	HH	MM						
1	21	11	18	12	00	Soll					
2	21	11	18	12	05	Soll					
3	21	11	18	12	10	Soll					
4	21	11	18	12	10	Soll					
5	21	11	18	12	15	Soll					
6	21	11	18	12	20	Soll					
7	21	11	18	12	25	Soll					
8	21	11	18	12	30	Soll					
9											
10											
11											
12											
13											
14											
15											

LAB USE ONLY		LAB USE ONLY		LAB USE ONLY		LAB USE ONLY		LAB USE ONLY		LAB USE ONLY	
Seal present	Seal intact	Seal present	Seal intact	Seal present	Seal intact	Seal present	Seal intact	Seal present	Seal intact	Seal present	Seal intact
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cooling media present		Cooling media present		Cooling media present		Cooling media present		Cooling media present		Cooling media present	
Relinquished by: (Signature/ Print)		Relinquished by: (Signature/ Print)		Relinquished by: (Signature/ Print)		Relinquished by: (Signature/ Print)		Relinquished by: (Signature/ Print)		Relinquished by: (Signature/ Print)	
Jesse Bursee		Jesse Bursee		Jesse Bursee		Jesse Bursee		Jesse Bursee		Jesse Bursee	
21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30	
Date		Date		Date		Date		Date		Date	
YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM	
21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30	
Time		Time		Time		Time		Time		Time	
HH MM		HH MM		HH MM		HH MM		HH MM		HH MM	
12 30		12 30		12 30		12 30		12 30		12 30	
Date		Date		Date		Date		Date		Date	
YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM	
21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30		21 11 30 12 30	
Time		Time		Time		Time		Time		Time	
HH MM		HH MM		HH MM		HH MM		HH MM		HH MM	
12 30		12 30		12 30		12 30		12 30		12 30	
Date		Date		Date		Date		Date		Date	
YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM		YY MM DD HH MM	
21 11 30 12 30		21 11 30 12 30		21 11 3							

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/17 to 2021/11/18

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193735

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/30
Report #: R3115861
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193735

Received: 2021/11/30, 14:40

Sample Matrix: Soil
Samples Received: 43

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	3	2021/12/03	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/12/06	2021/12/06	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/12/07	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/30
Report #: R3115861
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193735

Received: 2021/11/30, 14:40

Encryption Key

Parminder Virk
Key Account Specialist
30 Dec 2021 10:32:30

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist
Email: Parminder.Virk@bureauveritas.com
Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193735

Report Date: 2021/12/30

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW267		ALW268			ALW269		ALW270		
Sampling Date		2021/11/17 15:50		2021/11/17 15:53			2021/11/17 15:56		2021/11/17 16:00		
COC Number		1OF2		1OF2			1OF2		1OF2		
	UNITS	BL-BP-01	RDL	BL-BP-02	RDL	QC Batch	BL-BP-03	QC Batch	BL-BP-04	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	35	0.50	74	1.0	A449049	64	A449045	74	0.50	A449049
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW271		ALW272	ALW273	ALW274	ALW275		ALW276		
Sampling Date		2021/11/17 16:03		2021/11/17 16:06	2021/11/17 16:09	2021/11/17 16:12	2021/11/17 16:14		2021/11/17 16:20		
COC Number		1OF2		1OF2	1OF2	1OF2	1OF2		1OF2		
	UNITS	BL-BP-05	RDL	BL-BP-06	BL-BP-07	BL-BP-08	BL-BP-09	QC Batch	BL-GP-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	74	1.0	8.4	47	120	130	A449049	79	0.50	A449045
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW277		ALW278	ALW279			ALW280		ALW281		
Sampling Date		2021/11/17 16:25		2021/11/17 16:30	2021/11/17 16:35			2021/11/17 16:35		2021/11/17 16:40		
COC Number		1OF2		1OF2	1OF2			1OF2		1OF2		
	UNITS	BL-GP-02	RDL	BL-GP-03	BL-GP-04	RDL	QC Batch	BL-GP-04D	QC Batch	BL-GP-05	RDL	QC Batch

Elements												
Total Lead (Pb)	mg/kg	46	0.50	29	27	1.0	A449049	19	A449038	57	0.50	A449045
RDL = Reportable Detection Limit												

Bureau Veritas ID		ALW282		ALW283		ALW284	ALW285	ALW286	ALW287		
Sampling Date		2021/11/17 16:45		2021/11/18 09:30		2021/11/18 09:34	2021/11/18 09:37	2021/11/18 09:40	2021/11/18 09:45		
COC Number		1OF2		1OF2		1OF2	1OF2	1OF2	1OF2		
	UNITS	BL-GP-06	RDL	BL-LP-01	RDL	BL-LP-02	BL-LP-03	BL-LP-04	BL-LP-05	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	18	0.50	140	1.0	110	36	31	160	0.50	A449038
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW288		ALW289	ALW290	ALW291		ALW292	ALW293		
Sampling Date		2021/11/18 09:50		2021/11/18 10:00	2021/11/18 10:04	2021/11/18 10:08		2021/11/18 10:12	2021/11/18 10:15		
COC Number		1OF2		1OF2	1OF2	1OF2		1OF2	1OF2		
	UNITS	BL-LP-06	RDL	BL-BB-01	BL-BB-02	BL-BB-03	QC Batch	BL-BB-04	BL-BB-05	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	55	0.50	18	76	12	A449038	49	25	1.0	A449049
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C193735
Report Date: 2021/12/30

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: 478033.0000002
Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW294		ALW295		ALW296	ALW297			ALW298		
Sampling Date		2021/11/18 10:18		2021/11/18 10:20		2021/11/18 10:25	2021/11/18 10:30			2021/11/18 11:00		
COC Number		1OF2		1OF2		1OF2	1OF2			1OF2		
	UNITS	BL-BB-06	RDL	BL-BB-07	RDL	BL-BB-08	BL-BB-09	RDL	QC Batch	BL-BS-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	15	1.0	100	0.50	25	25	1.0	A449049	19	0.50	A449038
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW299		ALW300		ALW301		ALW302	ALW303		
Sampling Date		2021/11/18 11:05		2021/11/18 11:10		2021/11/18 11:15		2021/11/18 11:20	2021/11/18 11:25		
COC Number		1OF2		1OF2		1OF2		1OF2	1OF2		
	UNITS	BL-BS-02	RDL	BL-BS-03	RDL	BL-BS-04	QC Batch	BL-BS-05	BL-BS-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	18	1.0	25	0.50	29	A449049	9.3	12	1.0	A449038
-----------------	-------	----	-----	----	------	----	---------	-----	----	-----	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW304	ALW305	ALW306	ALW307	ALW308	ALW309		
Sampling Date		2021/11/18 11:30	2021/11/18 11:35	2021/11/18 11:40	2021/11/18 11:45	2021/11/18 11:50	2021/11/18 11:55		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2	1OF2		
	UNITS	BL-BS-07	BL-BS-08	BL-BS-09	BL-BS-10	BL-BS-11	BL-BS-12	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	41	38	52	44	35	51	1.0	A449038
-----------------	-------	----	----	----	----	----	----	-----	---------

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193735

Report Date: 2021/12/30

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

GENERAL COMMENTS

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALW268 [BL-BP-02] Lead: Detection limits raised due to sample matrix.
Sample ALW270 [BL-BP-04] Lead: Detection limits raised due to sample matrix.
Sample ALW278 [BL-GP-03] Lead: Detection limits raised due to sample matrix.
Sample ALW279 [BL-GP-04] Lead: Detection limits raised due to sample matrix.
Sample ALW283 [BL-LP-01] Lead: Detection limits raised due to sample matrix.
Sample ALW289 [BL-BB-01] Lead: Detection limits raised due to sample matrix.
Sample ALW290 [BL-BB-02] Lead: Detection limits raised due to sample matrix.
Sample ALW291 [BL-BB-03] Lead: Detection limits raised due to sample matrix.
Sample ALW292 [BL-BB-04] Lead: Detection limits raised due to sample matrix.
Sample ALW293 [BL-BB-05] Lead: Detection limits raised due to sample matrix.
Sample ALW294 [BL-BB-06] Lead: Detection limits raised due to sample matrix.
Sample ALW296 [BL-BB-08] Lead: Detection limits raised due to sample matrix.
Sample ALW297 [BL-BB-09] Lead: Detection limits raised due to sample matrix.
Sample ALW299 [BL-BS-02] Lead: Detection limits raised due to sample matrix.
Sample ALW301 [BL-BS-04] Lead: Detection limits raised due to sample matrix.
Sample ALW302 [BL-BS-05] Lead: Detection limits raised due to sample matrix.
Sample ALW303 [BL-BS-06] Lead: Detection limits raised due to sample matrix.
Sample ALW304 [BL-BS-07] Lead: Detection limits raised due to sample matrix.
Sample ALW305 [BL-BS-08] Lead: Detection limits raised due to sample matrix.
Sample ALW306 [BL-BS-09] Lead: Detection limits raised due to sample matrix.
Sample ALW307 [BL-BS-10] Lead: Detection limits raised due to sample matrix.
Sample ALW308 [BL-BS-11] Lead: Detection limits raised due to sample matrix.
Sample ALW309 [BL-BS-12] Lead: Detection limits raised due to sample matrix.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A449038	MFP	Matrix Spike [ALW298-01]	Total Lead (Pb)	2021/12/06		91	%	75 - 125
A449038	MFP	QC Standard	Total Lead (Pb)	2021/12/06		106	%	79 - 121
A449038	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		98	%	80 - 120
A449038	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A449038	MFP	RPD [ALW298-01]	Total Lead (Pb)	2021/12/06	0.27		%	35
A449045	LQ1	QC Standard	Total Lead (Pb)	2021/12/07		104	%	79 - 121
A449045	LQ1	Spiked Blank	Total Lead (Pb)	2021/12/07		94	%	80 - 120
A449045	LQ1	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A449049	LQ1	Matrix Spike [ALW279-01]	Total Lead (Pb)	2021/12/07		86	%	75 - 125
A449049	LQ1	QC Standard	Total Lead (Pb)	2021/12/07		109	%	79 - 121
A449049	LQ1	Spiked Blank	Total Lead (Pb)	2021/12/07		91	%	80 - 120
A449049	LQ1	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A449049	LQ1	RPD [ALW279-01]	Total Lead (Pb)	2021/12/07	6.8		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C193735

Report Date: 2021/12/30

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Sze Yeung Fock, B.Sc., Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



341B

ENV COC - 00013v0

Page 1 of 2

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Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

20211204-075

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

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CONTINUED

[PAGE 1 REFERENCE]							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22			
Company: Parsons Inc.							FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX F1	VOC	BTEX F1-F2	BTEX F1-F4	Routine Water	Regulab	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead					# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE	Same as Above	
Contact Name: Gary Karp																															
Project #: 10-12553																															
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																															
Sample Identification							YY	MM	DD	HH	MM	Matrix																			
16	BL-GP-06						21	11	17	16	45	Soil																			
17	BL-LP-01						21	11	18	09	30	Soil																			
18	BL-LP-02						21	11	18	09	34	Soil																			
19	BL-LP-03						21	11	18	09	37	Soil																			
20	BL-LP-04						21	11	18	09	40	Soil																			
21	BL-LP-05						21	11	18	09	45	Soil																			
22	BL-LP-06						21	11	18	09	50	Soil																			
23	BL-BB-01						21	11	18	10	00	Soil																			
24	BL-BB-02						21	11	18	10	04	Soil																			
25	BL-BB-03						21	11	18	10	08	Soil																			
26	BL-BB-04						21	11	18	10	12	Soil																			
27	BL-BB-05						21	11	18	10	15	Soil																			
28	BL-BB-06						21	11	18	10	18	Soil																			
29	BL-BB-07						21	11	18	10	20	Soil																			
30	BL-BB-08						21	11	18	10	25	Soil																			
31	BL-BB-09						21	11	18	10	30	Soil																			
32	BL-B5-01						21	11	18	11	00	Soil																			
33	BL-B5-02						21	11	18	11	05	Soil																			
34	BL-B5-03						21	11	18	11	10	Soil																			
35	BL-B5-04						21	11	18	11	15	Soil																			
36	BL-B5-05						21	11	18	11	20	Soil																			
37	BL-B5-06						21	11	18	11	25	Soil																			
38	BL-B5-07						21	11	18	11	30	Soil																			
39	BL-B5-08						21	11	18	11	35	Soil																			
40	BL-B5-09						21	11	18	11	40	Soil																			
41	BL-B5-10						21	11	18	11	45	Soil																			
42	BL-B5-11						21	11	18	11	50	Soil																			
43	BL-B5-12						21	11	18	11	55	Soil																			
44																															

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/16

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193737

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121637
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193737

Received: 2021/11/30, 14:40

Sample Matrix: Soil
Samples Received: 41

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	10	2021/12/04	2021/12/05	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	11	2021/12/05	2021/12/06	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/12/06	2021/12/06	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121637
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193737

Received: 2021/11/30, 14:40

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

13 Jan 2022 15:12:04

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193737

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW323	ALW324	ALW325	ALW326		ALW327		ALW328		
Sampling Date		2021/11/16 12:20	2021/11/16 12:23	2021/11/16 12:26	2021/11/16 12:29		2021/11/16 12:32		2021/11/16 12:35		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2		1 OF 2		1 OF 2		
	UNITS	WT-CL-01	WT-CL-02	WT-CL-03	WT-CL-04	RDL	WT-CL-05	RDL	WT-CL-06	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	130	79	78	68	0.50	55	1.0	67	0.50	A456081
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW329		ALW330	ALW331	ALW332	ALW333		ALW334		
Sampling Date		2021/11/16 12:38		2021/11/16 12:41	2021/11/16 12:45	2021/11/16 12:50	2021/11/16 13:00		2021/11/16 13:03		
COC Number		1 OF 2		1 OF 2	1 OF 2	1 OF 2	1 OF 2		1 OF 2		
	UNITS	WT-CL-07	RDL	WT-CL-08	WT-CL-09	WT-CL-10	WT-CR-01	QC Batch	WT-CR-02	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	49	0.50	35	19	18	15	A456081	140	1.0	A456085
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW335	ALW336		ALW337		ALW338		ALW339		
Sampling Date		2021/11/16 13:06	2021/11/16 13:06		2021/11/16 13:10		2021/11/16 13:13		2021/11/16 13:16		
COC Number		1 OF 2	1 OF 2		1 OF 2		2 OF 2		2 OF 2		
	UNITS	WT-CR-03	WT-CR-03D	RDL	WT-CR-04	QC Batch	WT-CR-05	QC Batch	WT-CR-06	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	35	52	0.50	120	A456081	34	A456100	72	1.0	A456085
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW340			ALW341	ALW342	ALW343		ALW344		
Sampling Date		2021/11/16 13:20			2021/11/16 13:25	2021/11/16 13:30	2021/11/16 13:35		2021/11/16 13:50		
COC Number		2 OF 2			2 OF 2	2 OF 2	2 OF 2		2 OF 2		
	UNITS	WT-CR-07	RDL	QC Batch	WT-CR-08	WT-CR-09	WT-CR-10	QC Batch	WT-PP-01	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	74	0.50	A456085	71	140	160	A456100	50	1.0	A456085
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW345	ALW346		ALW347			ALW348	ALW349		
Sampling Date		2021/11/16 13:54	2021/11/16 13:58		2021/11/16 14:02			2021/11/16 14:06	2021/11/16 14:10		
COC Number		2 OF 2	2 OF 2		2 OF 2			2 OF 2	2 OF 2		
	UNITS	WT-PP-02	WT-PP-03	QC Batch	WT-PP-04	RDL	QC Batch	WT-PP-05	WT-PP-06	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	18	24	A456085	86	0.50	A456081	84	100	1.0	A456100
RDL = Reportable Detection Limit											



BUREAU
VERITAS

Bureau Veritas Job #: C193737
Report Date: 2022/01/13

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: 478033.0000002

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW350		ALW351		ALW352			ALW353	ALW354		
Sampling Date		2021/11/16 14:15		2021/11/16 14:20		2021/11/16 14:25			2021/11/16 14:30	2021/11/16 15:15		
COC Number		2 OF 2		2 OF 2		2 OF 2			2 OF 2	2 OF 2		
	UNITS	WT-PP-07	QC Batch	WT-PP-08	RDL	WT-PP-09	RDL	QC Batch	WT-PP-10	WT-SK-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	88	A456100	75	1.0	32	0.50	A456081	170	45	1.0	A456085
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RDL = Reportable Detection Limit

Bureau Veritas ID		ALW355	ALW356		ALW357		ALW358			ALW359		
Sampling Date		2021/11/16 15:20	2021/11/16 15:25		2021/11/16 15:30		2021/11/16 15:35			2021/11/16 15:40		
COC Number		2 OF 2	2 OF 2		2 OF 2		2 OF 2			2 OF 2		
	UNITS	WT-SK-02	WT-SK-03	RDL	WT-SK-04	QC Batch	WT-SK-05	RDL	QC Batch	WT-SK-06	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	96	38	1.0	28	A456100	15	0.50	A456081	70	1.0	A456085
-----------------	-------	----	----	-----	----	---------	----	------	---------	----	-----	---------

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW360	ALW361		ALW362	ALW363		
Sampling Date		2021/11/16 15:42	2021/11/16 15:45		2021/11/16 15:47	2021/11/16 15:50		
COC Number		2 OF 2	2 OF 2		2 OF 2	2 OF 2		
	UNITS	WT-SK-07	WT-SK-08	QC Batch	WT-SK-09	WT-SK-10	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	110	91	A456081	110	160	1.0	A456085
-----------------	-------	-----	----	---------	-----	-----	-----	---------

RDL = Reportable Detection Limit



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.0°C
Package 2	8.0°C
Package 3	4.7°C
Package 4	4.7°C
Package 5	7.3°C

Version #2: Report re-issued with updated extraction date for some samples.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALW327 [WT-CL-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW330 [WT-CL-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW331 [WT-CL-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW332 [WT-CL-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW333 [WT-CR-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW334 [WT-CR-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW337 [WT-CR-04] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW338 [WT-CR-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW339 [WT-CR-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW341 [WT-CR-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW342 [WT-CR-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW343 [WT-CR-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW344 [WT-PP-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW348 [WT-PP-05] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW349 [WT-PP-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW350 [WT-PP-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW351 [WT-PP-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW353 [WT-PP-10] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW354 [WT-SK-01] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW355 [WT-SK-02] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW356 [WT-SK-03] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW359 [WT-SK-06] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW360 [WT-SK-07] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW361 [WT-SK-08] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW362 [WT-SK-09] Lead: Detection limits raised based on sample weight used for analysis.
Sample ALW363 [WT-SK-10] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A456081	MFP	Matrix Spike [ALW351-01]	Total Lead (Pb)	2021/12/06		NC	%	75 - 125
A456081	MFP	QC Standard	Total Lead (Pb)	2021/12/06		107	%	79 - 121
A456081	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		99	%	80 - 120
A456081	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A456081	MFP	RPD [ALW351-01]	Total Lead (Pb)	2021/12/06	5.7		%	35
A456085	MFP	Matrix Spike [ALW334-01]	Total Lead (Pb)	2021/12/06		NC	%	75 - 125
A456085	MFP	QC Standard	Total Lead (Pb)	2021/12/06		107	%	79 - 121
A456085	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		100	%	80 - 120
A456085	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A456085	MFP	RPD [ALW334-01]	Total Lead (Pb)	2021/12/06	15		%	35
A456100	MFP	Matrix Spike	Total Lead (Pb)	2021/12/05		107	%	75 - 125
A456100	MFP	QC Standard	Total Lead (Pb)	2021/12/05		119	%	79 - 121
A456100	MFP	Spiked Blank	Total Lead (Pb)	2021/12/05		95	%	80 - 120
A456100	MFP	Method Blank	Total Lead (Pb)	2021/12/05	<0.50		mg/kg	
A456100	MFP	RPD	Total Lead (Pb)	2021/12/05	2.0		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C193737

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "H. Groves", written over a horizontal line.

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

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Edmonton, AB: 9331-48 St. 768 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-575 Berry St. 31H 1A7, Toll Free (866) 800-6208

340

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 1 of 2

Invoice Information				Report Information (If differs from invoice)				Project Information				LAB USE ONLY - PLACE STICKER HERE																
Company: Parsons Inc.				Company: Parsons Inc.				Quotation #: C10983				<div style="font-size: 2em; font-weight: bold;">C193737</div>																
Contact Name: Accounts Payable				Contact Name: Gary Karp				P.O. # / A/E/R: 478033.0000002																				
Street Address: 7 Terracon Place				Street Address: 7 Terracon Place				Project #: 10-12553																				
City: Winnipeg Prov: MB Postal Code: R2J 4B3				City: Winnipeg Prov: MB Postal Code: R2J 4B3				Site #:																				
Phone: 204-489-2964				Phone: 204-489-2964				Site Location:				Rush Confirmation #:																
Email: parsonsincap.parsons@parsons.com				Email: gary.karp@parsons.com; jesse.bursee@parsons.com; calgary.labreport@parsons.com				Site Location Province:																				
Copies:				Copies:				Sampled By: Shane Barry																				
Regulatory Criteria <input type="checkbox"/> AT1 <input type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____ SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																												
Sample Identification		Date Sampled		Time (24hr)		Matrix	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		YY	MM	DD	HH	MM	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX F1	VOC	BTEX F1 F2	BTEX F1 F4	Routine Water	Regulated Metals - Total	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead					
1	WT-CL-01	21	11	16	12	20	Soil																					
2	WT-CL-02	21	11	16	12	23	Soil																					
3	WT-CL-03	21	11	16	12	26	Soil																					
4	WT-CL-04	21	11	16	12	29	Soil																					
5	WT-CL-05	21	11	16	12	32	Soil																					
6	WT-CL-06	21	11	16	12	35	Soil																					
7	WT-CL-07	21	11	16	12	38	Soil																					
8	WT-CL-08	21	11	16	12	41	Soil																					
9	WT-CL-09	21	11	16	12	45	Soil																					
10	WT-CL-10	21	11	16	12	50	Soil																					
11	WT-CR-01	21	11	16	13	00	Soil																					
12	WT-CR-02	21	11	16	13	03	Soil																					
13	WT-CR-03	21	11	16	13	06	Soil																					
14	WT-CR-03D	21	11	16	13	06	Soil																					
15	WT-CR-04	21	11	16	13	10	Soil																					
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY.																												
LAB USE ONLY Seal present: <input type="checkbox"/> Yes <input type="checkbox"/> No Seal intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooling media present: <input type="checkbox"/> Yes <input type="checkbox"/> No														LAB USE ONLY Seal present: <input type="checkbox"/> Yes <input type="checkbox"/> No Seal intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooling media present: <input type="checkbox"/> Yes <input type="checkbox"/> No														
Relinquished by: (Signature/Print) Jesse Bursee <i>J Bursee</i>														Relinquished by: (Signature/Print) <i>received by: Anderson</i>														
Date: 21 11 30 12 30														Date: 21 12 01 10 30														
SPECIAL INSTRUCTIONS 20211204-027																												



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Edmonton, AB: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

340

C193737

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

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CONTINUED

[PAGE 1 REFERENCE]							CONTINUED																							
Company:		Parsons Inc.																												
Contact Name:		Gary Karp																												
Project #:		10-12553																												
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																														
Sample Identification	Date Sampled			Time (24hr)		Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX F1	5 VOC	6 BTEX F1-F2	7 BTEX F1-F4	8 Routine Water	9 Regulab.	10 Regulated Metals - Dissolved	11 Mercury - Total	12 Mercury - Dissolved	13 Salinity 4	14 Sieve (75 micron)	15 Texture (% Sand, Silt, Clay)	16 Basic Class II Landfill	17 Lead	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	COMMENTS	
	YY	MM	DD	HH	MM																									
16 WT-CR-05	21	11	16	13	13	Soil																								
17 WT-CR-06	21	11	16	13	16	Soil																								
18 WT-CR-07	21	11	16	13	20	Soil																								
19 WT-CR-08	21	11	16	13	25	Soil																								
20 WT-CR-09	21	11	16	13	30	Soil																								
21 WT-CR-10	21	11	16	13	35	Soil																								
22 WT-PP-01	21	11	16	13	50	Soil																								
23 WT-PP-02	21	11	16	13	54	Soil																								
24 WT-PP-03	21	11	16	13	58	Soil																								
25 WT-PP-04	21	11	16	14	02	Soil																								
26 WT-PP-05	21	11	16	14	06	Soil																								
27 WT-PP-06	21	11	16	14	10	Soil																								
28 WT-PP-07	21	11	16	14	15	Soil																								
29 WT-PP-08	21	11	16	14	20	Soil																								
30 WT-PP-09	21	11	16	14	25	Soil																								
31 WT-PP-10	21	11	16	14	30	Soil																								
32 WT-SK-01	21	11	16	15	15	Soil																								
33 WT-SK-02	21	11	16	15	20	Soil																								
34 WT-SK-03	21	11	16	15	25	Soil																								
35 WT-SK-04	21	11	16	15	30	Soil																								
36 WT-SK-05	21	11	16	15	35	Soil																								
37 WT-SK-06	21	11	16	15	40	Soil																								
38 WT-SK-07	21	11	16	15	42	Soil																								
39 WT-SK-08	21	11	16	15	45	Soil																								
40 WT-SK-09	21	11	16	15	47	Soil																								
41 WT-SK-10	21	11	16	15	50	Soil																								
42																														
43																														
44																														

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/19 to 2021/11/22

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193742

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/20
Report #: R3110321
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193742

Received: 2021/12/01, 15:09

Sample Matrix: Soil
Samples Received: 44

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	4	2021/12/03	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	25	2021/12/07	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	15	2021/12/07	2021/12/08	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1OF2

Attention: JESSE BURSEE

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/20
Report #: R3110321
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193742

Received: 2021/12/01, 15:09

Encryption Key

Parminder Virk
Key Account Specialist
20 Dec 2021 09:48:58

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193742

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW379	ALW380	ALW381	ALW382		ALW383	ALW384		
Sampling Date		2021/11/19 13:30	2021/11/19 13:35	2021/11/19 13:40	2021/11/19 13:40		2021/11/19 13:45	2021/11/19 13:50		
COC Number		1OF2	1OF2	1OF2	1OF2		1OF2	1OF2		
	UNITS	WL-WS-01	WL-WS-02	WL-WS-03	WL-WS-03D	QC Batch	WL-WS-04	WL-WS-05	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	28	76	37	26	A449032	21	13	0.50	A449033

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW385	ALW386	ALW387		ALW388		ALW389		
Sampling Date		2021/11/19 13:55	2021/11/19 14:00	2021/11/19 14:10		2021/11/19 14:25		2021/11/19 14:35		
COC Number		1OF2	1OF2	1OF2		1OF2		1OF2		
	UNITS	WL-WS-06	WL-WS-07	WL-WS-08	QC Batch	WL-LS-01	QC Batch	WL-LS-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	51	55	4.2	A449033	4.5	A449032	3.8	0.50	A449033

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW390		ALW391	ALW392		ALW393		ALW394		
Sampling Date		2021/11/19 14:40		2021/11/19 14:50	2021/11/19 15:00		2021/11/19 15:10		2021/11/19 15:20		
COC Number		1OF2		1OF2	1OF2		1OF2		1OF2		
	UNITS	WL-LS-03	QC Batch	WL-LS-04	WL-LS-05	QC Batch	WL-LS-06	QC Batch	WL-MS-01	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	2.8	A449032	5.7	4.1	A449033	3.1	A449045	34	0.50	A449032

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW395	ALW396	ALW397	ALW398	ALW399	ALW400	ALW401		
Sampling Date		2021/11/19 15:23	2021/11/19 15:30	2021/11/19 15:35	2021/11/19 15:40	2021/11/19 15:45	2021/11/19 15:50	2021/11/19 15:55		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2	1OF2	1OF2		
	UNITS	WL-MS-02	WL-MS-03	WL-MS-04	WL-MS-05	WL-MS-06	WL-MS-07	WL-MS-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	80	50	30	29	27	17	30	0.50	A449032

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW402	ALW403	ALW404	ALW405		ALW406	ALW407		
Sampling Date		2021/11/19 16:00	2021/11/19 16:00	2021/11/19 16:05	2021/11/19 16:10		2021/11/22 09:50	2021/11/22 09:55		
COC Number		1OF2	1OF2	1OF2	1OF2		1OF2	1OF2		
	UNITS	WL-MS-09	WL-MS-09D	WL-MS-10	WL-MS-11	QC Batch	WL-VR-01	WL-VR-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	62	39	21	49	A449032	22	62	0.50	A449033

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193742

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW408	ALW409	ALW410	ALW411	ALW412	ALW413	ALW414		
Sampling Date		2021/11/22 09:55	2021/11/22 10:00	2021/11/22 10:05	2021/11/22 10:10	2021/11/22 10:15	2021/11/22 10:20	2021/11/22 10:25		
COC Number		1OF2	1OF2	1OF2	1OF2	1OF2	1OF2	1OF2		
	UNITS	WL-VR-02D	WL-VR-03	WL-VR-04	WL-VR-05	WL-VR-06	WL-VR-07	WL-VR-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	59	75	65	61	53	5.8	54	0.50	A449033
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW415		ALW416	ALW417		ALW418		ALW419		
Sampling Date		2021/11/22 10:30		2021/11/22 10:35	2021/11/22 10:45		2021/11/22 10:50		2021/11/22 10:55		
COC Number		1OF2		1OF2	1OF2		1OF2		1OF2		
	UNITS	WL-VR-09	QC Batch	WL-VR-10	WL-VR-11	QC Batch	WL-VR-12	QC Batch	WL-VR-13	RDL	QC Batch

Elements											
Total Lead (Pb)	mg/kg	72	A449045	42	52	A449033	130	A449045	74	0.50	A449033
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW420		ALW421		ALW422		
Sampling Date		2021/11/22 11:00		2021/11/22 11:10		2021/11/22 11:05		
COC Number		1OF2		1OF2		1OF2		
	UNITS	WL-VR-14	QC Batch	WL-VR-15	QC Batch	WL-VR-16	RDL	QC Batch
Elements								
Total Lead (Pb)	mg/kg	25	A449032	86	A449045	53	0.50	A449032
RDL = Reportable Detection Limit								



**BUREAU
VERITAS**

Bureau Veritas Job #: C193742

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193742

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A449032	MFP	Matrix Spike [ALW405-01]	Total Lead (Pb)	2021/12/07		93	%	75 - 125
A449032	MFP	QC Standard	Total Lead (Pb)	2021/12/07		103	%	79 - 121
A449032	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		92	%	80 - 120
A449032	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A449032	MFP	RPD [ALW405-01]	Total Lead (Pb)	2021/12/07	0.28		%	35
A449033	LQ1	Matrix Spike [ALW383-01]	Total Lead (Pb)	2021/12/07		81	%	75 - 125
A449033	LQ1	QC Standard	Total Lead (Pb)	2021/12/07		105	%	79 - 121
A449033	LQ1	Spiked Blank	Total Lead (Pb)	2021/12/07		92	%	80 - 120
A449033	LQ1	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A449033	LQ1	RPD [ALW383-01]	Total Lead (Pb)	2021/12/07	25		%	35
A449045	LQ1	QC Standard	Total Lead (Pb)	2021/12/07		104	%	79 - 121
A449045	LQ1	Spiked Blank	Total Lead (Pb)	2021/12/07		94	%	80 - 120
A449045	LQ1	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C193742

Report Date: 2021/12/20

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

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CONTINUED

Company: Pursons Inc.		Contact Name: Gary Karp		Project #: 10-12553																										
[PAGE 1 REFERENCE]																														
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS.																														
Sample Identification		Date Sampled			Time (Zhr)		Matrix																							
		YY	MM	DD	HH	MM																								
16	WL-MS-01	21	11	19	15	20	Soil	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX F1	VOC	BTEX F1-F2	BTEX F1-F4	Routine Water	Regulate	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead					# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE
17	WL-MS-02	21	11	19	15	23	Soil																					1		
18	WL-MS-03	21	11	19	15	30	Soil																					1		
19	WL-MS-04	21	11	19	15	35	Soil																					1		
20	WL-MS-05	21	11	19	15	40	Soil																					1		
21	WL-MS-06	21	11	19	15	45	Soil																					1		
22	WL-MS-07	21	11	19	15	50	Soil																					1		
23	WL-MS-08	21	11	19	15	55	Soil																					1		
24	WL-MS-09	21	11	19	16	00	Soil																					1		
25	WL-MS-09D	21	11	19	16	00	Soil																					1		
26	WL-MS-10	21	11	19	16	05	Soil																					1		
27	WL-MS-11	21	11	19	16	10	Soil																					1		
28	WL-VR-01	21	11	22	09	50	Soil																					1		
29	WL-VR-02	21	11	22	09	55	Soil																					1		
30	WL-VR-02D	21	11	22	09	55	Soil																					1		
31	WL-VR-03	21	11	22	10	00	Soil																					1		
32	WL-VR-04	21	11	22	10	05	Soil																					1		
33	WL-VR-05	21	11	22	10	10	Soil																					1		
34	WL-VR-06	21	11	22	10	15	Soil																					1		
35	WL-VR-07	21	11	22	10	20	Soil																					1		
36	WL-VR-08	21	11	22	10	25	Soil																					1		
37	WL-VR-09	21	11	22	10	30	Soil																					1		
38	WL-VR-10	21	11	22	10	35	Soil																					1		
39	WL-VR-11	21	11	22	10	45	Soil																					1		
40	WL-VR-12	21	11	22	10	50	Soil																					1		
41	WL-VR-13	21	11	22	10	55	Soil																					1		
42	WL-VR-14	21	11	22	11	00	Soil																					1		
43	WL-VR-15	21	11	22	11	10	Soil																					1		
44	WL-VR-16	21	11	22	11	05	Soil																					1		

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/22 to 2021/11/23

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193747

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	The matrix spike recovery for Total Lead (144%) is above the acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery		X		
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/23

Report #: R3113356

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193747

Received: 2021/12/01, 15:09

Sample Matrix: Soil
Samples Received: 35

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	20	2021/12/06	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	15	2021/12/07	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/23
Report #: R3113356
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193747

Received: 2021/12/01, 15:09

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

23 Dec 2021 17:44:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193747

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW446	ALW447		ALW448	ALW449	ALW450	ALW451		
Sampling Date		2021/11/22 11:20	2021/11/22 11:25		2021/11/22 11:30	2021/11/22 11:40	2021/11/22 11:55	2021/11/22 12:00		
COC Number		1 OF 2	1 OF 2		1 OF 2	1 OF 2	1 OF 2	1 OF 2		
	UNITS	WL-VR-17	WL-VR-18	QC Batch	WL-VR-19	WL-VR-20	WL-WL-01	WL-WL-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	66	220	A456032	76	39	74	12	0.50	A456057

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW452	ALW453	ALW454	ALW455		ALW456		
Sampling Date		2021/11/22 12:05	2021/11/22 12:10	2021/11/22 12:15	2021/11/22 12:20		2021/11/22 12:34		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2		1 OF 2		
	UNITS	WL-WL-03	WL-WL-04	WL-WL-05	WL-WL-06	QC Batch	WL-RS-01	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	130	81	10	16	A456032	24	0.50	A456057

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW457	ALW458	ALW459	ALW460	ALW461	ALW462	ALW463		
Sampling Date		2021/11/22 12:38	2021/11/22 12:42	2021/11/22 12:46	2021/11/22 13:03	2021/11/22 13:07	2021/11/22 13:11	2021/11/22 13:15		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	WL-RS-02	WL-RS-03	WL-RS-04	WL-AP-01	WL-AP-02	WL-AP-03	WL-AP-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	14	15	16	200	65	40	43	0.50	A456032

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW464	ALW465		ALW466	ALW467	ALW468	ALW469		
Sampling Date		2021/11/22 13:19	2021/11/22 13:23		2021/11/22 13:27	2021/11/22 13:31	2021/11/22 13:35	2021/11/23 13:40		
COC Number		2 OF 2	2 OF 2		2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	WL-AP-05	WL-AP-06	QC Batch	WL-AP-07	WL-AP-08	WL-AP-09	WL-AP-10	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	11	36	A456032	50	44	56	79	0.50	A456057

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193747

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW470	ALW471	ALW472	ALW473	ALW474	ALW475	ALW476		
Sampling Date		2021/11/23 11:10	2021/11/23 11:15	2021/11/23 11:15	2021/11/23 11:20	2021/11/23 11:30	2021/11/23 11:35	2021/11/23 11:50		
COC Number		2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	WL-NT-01	WL-NT-02	WL-NT-02D	WL-NT-03	WL-NT-04	WL-NT-05	WL-GP-01	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	85	55	57	50	35	82	33 (1)	0.50	A456057
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RDL = Reportable Detection Limit

(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas ID		ALW477	ALW478	ALW479	ALW480		
Sampling Date		2021/11/23 11:55	2021/11/23 12:00	2021/11/23 12:05	2021/11/23 12:10		
COC Number		2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	WL-GP-02	WL-GP-03	WL-GP-04	WL-GP-05	RDL	QC Batch

Elements

Total Lead (Pb)	mg/kg	13	30	44	50	0.50	A456057
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RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193747

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.1°C
-----------	--------

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193747

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A456032	MFP	Matrix Spike [ALW464-01]	Total Lead (Pb)	2021/12/07		98	%	75 - 125
A456032	MFP	QC Standard	Total Lead (Pb)	2021/12/07		108	%	79 - 121
A456032	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		100	%	80 - 120
A456032	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A456032	MFP	RPD [ALW464-01]	Total Lead (Pb)	2021/12/07	17		%	35
A456057	MFP	Matrix Spike [ALW476-01]	Total Lead (Pb)	2021/12/07		144 (1)	%	75 - 125
A456057	MFP	QC Standard	Total Lead (Pb)	2021/12/07		109	%	79 - 121
A456057	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		100	%	80 - 120
A456057	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A456057	MFP	RPD [ALW476-01]	Total Lead (Pb)	2021/12/07	1.7		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C193747

Report Date: 2021/12/23

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in blue ink, appearing to read "H. Groves", written over a horizontal line.

Heather Groves, Dip.BioSci, QP, Senior Laboratory Manager - Inorganics

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Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

379A

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 1 of 2

Invoice Information				Report Information (if differs from invoice)				Project Information				LAB USE ONLY - PLACE STICKER HERE														
Company: Parsons Inc.				Company: Parsons Inc.				Quotation #: C10983																		
Contact Name: Accounts Payable				Contact Name: Gary Karp				P.O. #/ AFE#: 478033.0000002																		
Street Address: 7 Terracon Place				Street Address: 7 Terracon Place				Project #: 10-12553																		
City:	Winnipeg	Prov:	MB	Postal Code:	R2J 4B3	City:	Winnipeg	Prov:	MB	Postal Code:	R2J 4B3	Site #:														
Phone: 204-489-2964				Phone: 204-489-2964				Site Location:				Rush Confirmation #:														
Email: parsonsincape@parsons.com				Email: gary.karp@parsons.com; jesse.burse@parsons.com; calgary.labreport@parsons.com				Site Location Province:				Regular TurnAround Time (TAT) <input type="checkbox"/> 5 to 7 days <input checked="" type="checkbox"/> 10 days Rush TurnAround Time (TAT) - Surcharges apply <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 DAY Date Required: YY MM DD COMMENTS														
Copies:				Copies:				Sampled By: Bryan Givourd																		
Regulatory Criteria																										
<input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____																										
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																										
Sample Identification		Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX F1	VOC	BTEX F1-F2	BTEX F1-F4	Routine Water	Regulated Metals - Total	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE
YY	MM	DD	HH	MM																						
1	WL-VR-17	21	11	22	11	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
2	WL-VR-18	21	11	22	11	25	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
3	WL-VR-19	21	11	22	11	30	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
4	WL-VR-20	21	11	22	11	40	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
5	WL-WL-01	21	11	22	11	55	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
6	WL-WL-02	21	11	22	12	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
7	WL-WL-03	21	11	22	12	05	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
8	WL-WL-04	21	11	22	12	10	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
9	WL-WL-05	21	11	22	12	15	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
10	WL-WL-06	21	11	22	12	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
11	WL-RS-01	21	11	22	12	34	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
12	WL-RS-02	21	11	22	12	38	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
13	WL-RS-03	21	11	22	12	42	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
14	WL-RS-04	21	11	22	12	46	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>
15	WL-AP-01	21	11	22	13	03	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>

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LAB USE ONLY				LAB USE ONLY				LAB USE ONLY				LAB USE ONLY			
Seal present	Seal Intact	Cooling media present	Temp	Seal present	Seal Intact	Cooling Media Present	Temp	Seal present	Seal Intact	Cooling Media Present	Temp	Seal present	Seal Intact	Cooling Media Present	Temp
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10 10 10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8 9 9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	17 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	17 1

Relinquished by: (Signature/ Print)				Relinquished by: (Signature/ Print)				Relinquished by: (Signature/ Print)				SPECIAL INSTRUCTIONS			
YY	MM	DD	HH	MM	YY	MM	DD	HH	MM	YY	MM	DD	HH	MM	
21	12	01	12	30	2021	12	01	15	09	2021	12	02	08	30	

TEMP BY: 17.1 17.1 17.1

C193747



CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 2 of 2

[PAGE 1 REFERENCE]

Company:	Parsons Inc.
Contact Name:	Gary Karp
Project #:	10-12553

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Sample Identification		Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION	BTEX F1	VOC	BTEX F1-F2	BTEX F1-F4	Routine Water	Regulation	Regulated Metals	Mercury - Total	Mercury - Dissolved	Salinity	Sieve (75 microns)	Texture (% Sand)	Basic Class II	Lead				# OF CONTAINERS	HOLD - DO NOT OPEN	COMMENTS	
		YY	MM	DD	HH	MM																									
✓	16	WL-AP-02		21	11	22	13	07	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	17	WL-AP-03		21	11	22	13	11	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	18	WL-AP-04		21	11	22	13	15	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	19	WL-AP-05		21	11	22	13	19	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	20	WL-AP-06		21	11	22	13	23	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	21	WL-AP-07		21	11	22	13	27	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	22	WL-AP-08		21	11	22	13	31	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	23	WL-AP-09		21	11	22	13	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	24	WL-AP-10		21	11	22	13	40	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	25	WL-NT-01		21	11	23	11	10	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	26	WL-NT-02		21	11	23	11	15	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	27	WL-NT-02D		21	11	23	11	15	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	28	WL-NT-03		21	11	23	11	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	29	WL-NT-04		21	11	23	11	30	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	30	WL-NT-05		21	11	23	11	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	31	WL-GP-01		21	11	23	11	50	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	32	WL-GP-02		21	11	23	11	55	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	33	WL-GP-03		21	11	23	12	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	34	WL-GP-04		21	11	23	12	05	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓	35	WL-GP-05		21	11	23	12	10	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
	36									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	37									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	38									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	39									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
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	41									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
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	43									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	44									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	

0193747

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/19 to 2021/11/22

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193748

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121634
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193748

Received: 2021/12/01, 15:09

Sample Matrix: Soil
Samples Received: 28

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Lead (1)	28	2021/12/05	2021/12/06	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/13
Report #: R3121634
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193748

Received: 2021/12/01, 15:09

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

13 Jan 2022 15:12:52

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C193748
Report Date: 2022/01/13

PARSONS INC.
Client Project #: 10-12553
Your P.O. #: 478033.0000002
Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW481	ALW482	ALW483	ALW484	ALW485	ALW486		
Sampling Date		2021/11/19 16:30	2021/11/19 16:34	2021/11/19 16:38	2021/11/19 16:43	2021/11/19 16:48	2021/11/19 16:52		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2		
	UNITS	MT-VC-01	MT-VC-02	MT-VC-03	MT-VC-04	MT-VC-05	MT-VC-06	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	70	91	44	23	25	64	0.50	A451172
RDL = Reportable Detection Limit									

Bureau Veritas ID		ALW487		ALW488	ALW489		ALW490	ALW491		
Sampling Date		2021/11/19 16:57		2021/11/19 17:00	2021/11/19 17:05		2021/11/19 17:10	2021/11/22 14:08		
COC Number		1 OF 2		1 OF 2	1 OF 2		1 OF 2	1 OF 2		
	UNITS	MT-VC-07	QC Batch	MT-VC-08	MT-VC-09	QC Batch	MT-VC-10	MT-SL-01	RDL	QC Batch
Elements										
Total Lead (Pb)	mg/kg	22	A451192	29	75	A451172	85	46	0.50	A451192
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW492	ALW493	ALW494	ALW495	ALW496			ALW497		
Sampling Date		2021/11/22 14:10	2021/11/22 14:10	2021/11/22 14:12	2021/11/22 14:14	2021/11/22 14:16			2021/11/22 14:18		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	2 OF 2			2 OF 2		
	UNITS	MT-SL-02	MT-SL-02D	MT-SL-03	MT-SL-04	MT-SL-05	RDL	QC Batch	MT-SL-06	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	140	130	210	17	60	0.50	A451192	84	1.0	A451172
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW498	ALW499	ALW500	ALW501	ALW502	ALW503		ALW504		
Sampling Date		2021/11/22 14:20	2021/11/22 14:22	2021/11/22 14:35	2021/11/22 14:38	2021/11/22 14:41	2021/11/22 14:44		2021/11/22 14:47		
COC Number		2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2		2 OF 2		
	UNITS	MT-SL-07	MT-SL-08	MT-ML-01	MT-ML-02	MT-ML-03	MT-ML-04	RDL	MT-ML-05	RDL	QC Batch
Elements											
Total Lead (Pb)	mg/kg	160	140	59	37	56	22	0.50	18	1.0	A451172
RDL = Reportable Detection Limit											

Bureau Veritas ID		ALW505		ALW506	ALW507		ALW508		
Sampling Date		2021/11/22 14:50		2021/11/22 14:55	2021/11/22 15:00		2021/11/22 15:05		
COC Number		2 OF 2		2 OF 2	2 OF 2		2 OF 2		
	UNITS	MT-ML-06	RDL	MT-ML-07	MT-ML-08	RDL	MT-ML-09	RDL	QC Batch
Elements									
Total Lead (Pb)	mg/kg	29	1.0	28	67	0.50	20	1.0	A451172
RDL = Reportable Detection Limit									



BUREAU
VERITAS

Bureau Veritas Job #: C193748

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	17.1°C
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Version #3: Report re-issued with updated extraction date for some samples.

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL) Comments

Sample ALW497 [MT-SL-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW504 [MT-ML-05] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW505 [MT-ML-06] Lead: Detection limits raised based on sample weight used for analysis.

Sample ALW508 [MT-ML-09] Lead: Detection limits raised based on sample weight used for analysis.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193748

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A451172	MFP	Matrix Spike [ALW482-01]	Total Lead (Pb)	2021/12/06		NC	%	75 - 125
A451172	MFP	QC Standard	Total Lead (Pb)	2021/12/06		110	%	79 - 121
A451172	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		103	%	80 - 120
A451172	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A451172	MFP	RPD [ALW482-01]	Total Lead (Pb)	2021/12/06	13		%	35
A451192	MFP	Matrix Spike [ALW495-01]	Total Lead (Pb)	2021/12/06		102	%	75 - 125
A451192	MFP	QC Standard	Total Lead (Pb)	2021/12/06		113	%	79 - 121
A451192	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		103	%	80 - 120
A451192	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A451192	MFP	RPD [ALW495-01]	Total Lead (Pb)	2021/12/06	3.5		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C193748

Report Date: 2022/01/13

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 1 of 2

379 B

Invoice Information							Report Information (if differs from invoice)							Project Information																																																																																																																																																																																																																													
Company : Parsons Inc.							Company: Parsons Inc.							Quotation #: C10983							LAB USE ONLY - PLACE STICKER HERE <div style="font-size: 2em; font-family: cursive;">C193748</div>																																																																																																																																																																																																																						
Contact Name: Accounts Payable							Contact Name: Gary Karp							P.O. #/ AFE#: 478033.0000002																																																																																																																																																																																																																													
Street Address: 7 Terracon Place							Street Address: 7 Terracon Place							Project #: 10-12553																																																																																																																																																																																																																													
City: Winnipeg		Prov: MB		Postal Code: R2J 4B3		City: Winnipeg		Prov: MB		Postal Code: R2J 4B3		Site #:									Rush Confirmation #:																																																																																																																																																																																																																						
Phone: 204-489-2964							Phone: 204-489-2964							Site Location:																																																																																																																																																																																																																													
Email: parsonsincap.parsons@parsons.com							Email: gary.karp@parsons.com; jesse.bursee@parsons.com; calgary.labreport@parsons.com							Site Location Province:																																																																																																																																																																																																																													
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<input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba																												FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTX F1	VOC	BTX F1-F2	BTX F1-F4	Routine Water	Regulated Metals - Total	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead	# OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE										<input type="checkbox"/> 5 to 7 days <input checked="" type="checkbox"/> 10 days																																																																																																																																																																																				
<input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____																																																							Rush TurnAround Time (TAT) - Surcharges apply																																																																																																																																																																																				
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																												Sample Identification	Date Sampled			Time (24hr)		Matrix	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	1	2	3



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Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

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CONTINUED

[PAGE 1 REFERENCE]

Company:	Parsons Inc.
Contact Name:	Gary Karp
Project #:	10-12553

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Sample Identification		Date Sampled			Time (24hr)		Matrix	FIELD FILTERED	FIELD PRESER	LAB FILTRATIO	BTEX F1	VOC	BTEX FLF2	BTEX FLF4	Routine Water	Regulate	Regulated Me	Mercury - Tot	Mercury - Dis	Salinity 4	Sieve (75 micr	Texture (% Sa	Basic Class II L	Lead					# OF CONTAIN	HOLD - DO NO	COMMENTS
		YY	MM	DD	HH	MM																									
16	MT-SL-05	21	11	22	14	16	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
17	MT-SL-06	21	11	22	14	18	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
18	MT-SL-07	21	11	22	14	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
19	MT-SL-08	21	11	22	14	22	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
20	MT-ML-01	21	11	22	14	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
21	MT-ML-02	21	11	22	14	38	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
22	MT-ML-03	21	11	22	14	41	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
23	MT-ML-04	21	11	22	14	44	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
24	MT-ML-05	21	11	22	14	47	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
25	MT-ML-06	21	11	22	14	50	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
26	MT-ML-07	21	11	22	14	55	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
27	MT-ML-08	21	11	22	15	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
28	MT-ML-09	21	11	22	15	05	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>		
29								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
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43								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		
44								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		

193748

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/19

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193749

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/12

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/26
Report #: R3126641
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193749

Received: 2021/12/01, 15:09

Sample Matrix: Soil
Samples Received: 23

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	3	2021/12/05	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	20	2021/12/06	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2022/01/26
Report #: R3126641
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C193749

Received: 2021/12/01, 15:09

Encryption Key

Parminder Virk
Key Account Specialist
26 Jan 2022 15:59:04

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

Bureau Veritas Job #: C193749

Report Date: 2022/01/26

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW509	ALW510	ALW511	ALW512	ALW513	ALW514	ALW515		
Sampling Date		2021/11/19 11:00	2021/11/19 11:04	2021/11/19 11:08	2021/11/19 11:12	2021/11/19 11:16	2021/11/19 11:20	2021/11/19 11:24		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2		
	UNITS	SG-PS-01	SG-PS-02	SG-PS-03	SG-PS-04	SG-PS-05	SG-PS-06	SG-PS-07	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	15	40	48	42	75	51	97	0.50	A451198

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW516	ALW517	ALW518		ALW519		ALW520		
Sampling Date		2021/11/19 11:25	2021/11/19 11:35	2021/11/19 11:40		2021/11/19 11:50		2021/11/19 11:55		
COC Number		1 OF 2	1 OF 2	1 OF 2		1 OF 2		1 OF 2		
	UNITS	SG-PS-08	SG-PS-09	SG-PS-10	QC Batch	SG-CS-01	QC Batch	SG-CS-02	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	84	68	28	A451198	59	A451192	110	0.50	A451198

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW521	ALW522	ALW523	ALW524	ALW525	ALW526	ALW527		
Sampling Date		2021/11/19 12:00	2021/11/19 12:05	2021/11/19 12:10	2021/11/19 12:10	2021/11/19 12:15	2021/11/19 12:20	2021/11/19 12:25		
COC Number		1 OF 2	1 OF 2	1 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	SG-CS-03	SG-CS-04	SG-CS-05	SG-CS-05D	SG-CS-06	SG-CS-07	SG-CS-08	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	210	160	71	76	73	97	140	0.50	A451198

RDL = Reportable Detection Limit

Bureau Veritas ID		ALW528		ALW529		ALW530		ALW531		
Sampling Date		2021/11/19 12:30		2021/11/19 12:35		2021/11/19 12:40		2021/11/19 12:45		
COC Number		2 OF 2		2 OF 2		2 OF 2		2 OF 2		
	UNITS	SG-CS-09	QC Batch	SG-CS-10	QC Batch	SG-CS-11	QC Batch	SG-CS-12	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	100	A451192	140	A451198	33	A451192	100	0.50	A451198

RDL = Reportable Detection Limit



BUREAU
VERITAS

Bureau Veritas Job #: C193749

Report Date: 2022/01/26

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	15.1°C
-----------	--------

Report reissued with updated extraction date for some samples on 2022.01.26.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193749

Report Date: 2022/01/26

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A451192	MFP	Matrix Spike	Total Lead (Pb)	2021/12/06		102	%	75 - 125
A451192	MFP	QC Standard	Total Lead (Pb)	2021/12/06		113	%	79 - 121
A451192	MFP	Spiked Blank	Total Lead (Pb)	2021/12/06		103	%	80 - 120
A451192	MFP	Method Blank	Total Lead (Pb)	2021/12/06	<0.50		mg/kg	
A451192	MFP	RPD	Total Lead (Pb)	2021/12/06	3.5		%	35
A451198	MFP	Matrix Spike [ALW527-01]	Total Lead (Pb)	2021/12/07		NC	%	75 - 125
A451198	MFP	QC Standard	Total Lead (Pb)	2021/12/07		110	%	79 - 121
A451198	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		95	%	80 - 120
A451198	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A451198	MFP	RPD [ALW527-01]	Total Lead (Pb)	2021/12/07	3.5		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)



BUREAU
VERITAS

Bureau Veritas Job #: C193749

Report Date: 2022/01/26

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

ENV COC - 00013v0

Calgary, AB: 4000 19th St. NE, T2E 6P8. Toll Free (800) 386-7247
Edmonton, AB: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208



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[illegible]



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Edmonton, AB: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

CHAIN OF CUSTODY RECORD

ENV COC - 00013v0

Page 2 of 2

CONTINUED

[PAGE 1 REFERENCE]							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	COMMENTS				
Company: Parsons Inc.							FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BYTEX F1	VOC	BYTEX F1-F2	BYTEX F1-F4	Routine Water	Regulab	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead	# OF CONTAINERS SUBMITTED	HOLD - DO NOT ANALYZE								
Contact Name: Gary Karp																																	
Project #: 10-12553							SAMPLER MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																										
Sample Identification							Date Sampled			Time (24hr)		Matrix																					
							YY	MM	DD	HH	MM																						
16	SG-CS-05D						21	11	19	12	10	Soil																	1				
17	SG-CS-06						21	11	19	12	15	Soil																	1				
18	SG-CS-07						21	11	19	12	20	Soil																	1				
19	SG-CS-08						21	11	19	12	25	Soil																	1				
20	SG-CS-09						21	11	19	12	30	Soil																	1				
21	SG-CS-10						21	11	19	12	35	Soil																	1				
22	SG-CS-11						21	11	19	12	40	Soil																	1				
23	SG-CS-12						21	11	19	12	45	Soil																	1				
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C193749

DATA QUALITY REVIEW CHECKLIST

Consultant: Parsons Inc.

Sampling Date: 2021/11/18 to 2021/11/19

Location: Winnipeg, Manitoba

Laboratory : Bureau Veritas, Winnipeg

Consultant Project Number: 10-12553

BV Labs Job Number: C193750

Are All Laboratory QC Samples Within Acceptance Criteria (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Instrument Surrogate Recovery			X	All laboratory QC met acceptance criteria.
Extraction Surrogate Recovery			X	
Method Blank Concentration	X			
Matrix Duplicate RPD	X			
Matrix Spike Recovery	X			
Lab Control Sample Recovery			X	

Are All Field QC Samples Within Alert Limits (Yes, No, Not Applicable)?

	Yes	No	NA	Comments
Field Blank Concentration			X	All field QC samples met the alert limits.
Trip Blank Concentration			X	
Field Duplicate RPD	X			

Has CofA been signed off (Yes/No)?:

Yes

Has lab warranted all tests were in statistical control in CofA (Yes/No)?:

Yes

Has lab warranted all tests were analyzed following SOP's in CofA (Yes, No or N/A)?:

Yes

Were all samples analyzed within hold times (Yes/No)?:

Yes

All volatiles samples methanol extracted, if required, within 48 hours (Yes, No or N/A)?:

N/A

Is Chain of Custody completed and signed (Yes/No)?:

Yes

Were sample temperatures acceptable when they reached lab (Yes/No)?:

Yes

Was a Data Quality Waiver (DQW) issued (Yes, No or N/A)?:

No

Is data considered to be reliable (Yes/No)?:

Yes

If answer is "No", describe and provide rationale:

Data Reviewed by (Print): Adam Wiebe

Review Date: 2022/01/11

Revision Date (if applicable): _____

Data Reviewed by (Signature):

Adam Wiebe

Revised by (Signature): _____



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/21
Report #: R3111564
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193750

Received: 2021/12/01, 15:09

Sample Matrix: Soil
Samples Received: 39

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Lead (1)	20	2021/12/06	2021/12/07	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m
Lead (1)	19	2021/12/07	2021/12/08	AB SOP-00001 / AB SOP-00043	EPA 6020b R2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8



Your P.O. #: 478033.0000002
Your Project #: 10-12553
Your C.O.C. #: 1 OF 2, 2 OF 2

Attention: Gary Karp

PARSONS INC.
7 Terracon Place
WINNIPEG, MB
CANADA R2J 4B3

Report Date: 2021/12/21
Report #: R3111564
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C193750

Received: 2021/12/01, 15:09

Encryption Key

Parminder Virk
Key Account Specialist
21 Dec 2021 16:36:47

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Key Account Specialist

Email: Parminder.Virk@bureauveritas.com

Phone# (403)735-2235

=====

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BUREAU
VERITAS

Bureau Veritas Job #: C193750

Report Date: 2021/12/21

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW532	ALW533	ALW534	ALW535	ALW536	ALW537	ALW538		
Sampling Date		2021/11/18 12:55	2021/11/18 12:59	2021/11/18 13:03	2021/11/18 13:15	2021/11/18 13:21	2021/11/18 13:26	2021/11/18 13:31		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2		
	UNITS	SG-CB-01	SG-CB-02	SG-CB-03	SG-VC-01	SG-VC-02	SG-VC-03	SG-VC-04	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	75	48	56	13	12	11	18	0.50	A451211
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW539	ALW540	ALW541	ALW542	ALW543	ALW544	ALW545		
Sampling Date		2021/11/18 13:31	2021/11/18 13:40	2021/11/18 13:46	2021/11/18 13:53	2021/11/18 14:00	2021/11/18 14:07	2021/11/18 14:14		
COC Number		1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2	1 OF 2		
	UNITS	SG-VC-04D	SG-VC-05	SG-VC-06	SG-VC-07	SG-VC-08	SG-VC-09	SG-VC-10	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	13	42	99	110	110	12	10	0.50	A451211
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW546	ALW547	ALW548	ALW549	ALW550	ALW551	ALW552		
Sampling Date		2021/11/18 14:30	2021/11/18 14:30	2021/11/18 14:40	2021/11/18 14:50	2021/11/18 16:20	2021/11/18 16:25	2021/11/18 16:30		
COC Number		1 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	SG-VC-11	SG-VC-12	SG-VC-13	SG-VC-14	SG-SP-01	SG-SP-02	SG-SP-03	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	68	17	50	28	18	22	19	0.50	A451251
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW553	ALW554	ALW555	ALW556	ALW557	ALW558	ALW559		
Sampling Date		2021/11/18 16:35	2021/11/18 16:40	2021/11/18 16:45	2021/11/18 16:50	2021/11/18 16:50	2021/11/18 16:55	2021/11/18 16:58		
COC Number		2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	SG-SP-04	SG-SP-05	SG-SP-06	SG-SP-07	SG-SP-07D	SG-SP-08	SG-SP-09	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	27	42	13	110	190	45	84	0.50	A451251
RDL = Reportable Detection Limit										

Bureau Veritas ID		ALW560		ALW561	ALW562	ALW563	ALW564		
Sampling Date		2021/11/18 17:00		2021/11/18 17:02	2021/11/18 17:05	2021/11/19 17:20	2021/11/19 09:45		
COC Number		2 OF 2		2 OF 2	2 OF 2	2 OF 2	2 OF 2		
	UNITS	SG-SP-10	QC Batch	SG-SS-01	SG-SS-02	SG-SS-03	SG-SS-04	RDL	QC Batch

Elements									
Total Lead (Pb)	mg/kg	25	A451251	150	37	31	93	0.50	A451211
RDL = Reportable Detection Limit									



BUREAU
VERITAS

Bureau Veritas Job #: C193750

Report Date: 2021/12/21

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		ALW565	ALW566	ALW567	ALW568	ALW569		ALW570		
Sampling Date		2021/11/19 09:50	2021/11/19 09:55	2021/11/19 10:00	2021/11/19 10:10	2021/11/19 10:20		2021/11/19 10:35		
COC Number		2 OF 2	2 OF 2	2 OF 2	2 OF 2	2 OF 2		2 OF 2		
	UNITS	SG-SS-05	SG-SS-06	SG-SS-07	SG-SS-08	SG-SS-09	QC Batch	SG-SS-12	RDL	QC Batch

Elements										
Total Lead (Pb)	mg/kg	26	26	53	70	24	A451251	18	0.50	A451211
RDL = Reportable Detection Limit										



BUREAU
VERITAS

Bureau Veritas Job #: C193750

Report Date: 2021/12/21

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	15.1°C
-----------	--------

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C193750

Report Date: 2021/12/21

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A451211	MFP	Matrix Spike [ALW563-01]	Total Lead (Pb)	2021/12/08		89	%	75 - 125
A451211	MFP	QC Standard	Total Lead (Pb)	2021/12/08		102	%	79 - 121
A451211	MFP	Spiked Blank	Total Lead (Pb)	2021/12/08		84	%	80 - 120
A451211	MFP	Method Blank	Total Lead (Pb)	2021/12/08	<0.50		mg/kg	
A451211	MFP	RPD [ALW563-01]	Total Lead (Pb)	2021/12/08	11		%	35
A451251	MFP	Matrix Spike [ALW550-01]	Total Lead (Pb)	2021/12/07		88	%	75 - 125
A451251	MFP	QC Standard	Total Lead (Pb)	2021/12/07		107	%	79 - 121
A451251	MFP	Spiked Blank	Total Lead (Pb)	2021/12/07		94	%	80 - 120
A451251	MFP	Method Blank	Total Lead (Pb)	2021/12/07	<0.50		mg/kg	
A451251	MFP	RPD [ALW550-01]	Total Lead (Pb)	2021/12/07	0.72		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.



BUREAU
VERITAS

Bureau Veritas Job #: C193750

Report Date: 2021/12/21

PARSONS INC.

Client Project #: 10-12553

Your P.O. #: 478033.0000002

Sampler Initials: SB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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Edmonton, AB: 9331-48 St. T6B 2R4. Toll Free (800) 386-7247
Winnipeg, MB: D-675 Berry St. R3H 1A7. Toll Free (866) 800-6208

382A

CHAIN OF CUSTODY RECORD
ENV COC - 00013v0

Page 1 of 2

Invoice Information				Report Information (if differs from invoice)				Project Information				LAB USE ONLY - PLACE STICKER HERE															
Invoice To Requires Report <input type="checkbox"/>																											
Company: Parsons Inc.				Company: Parsons Inc.				Quotation #: C10983																			
Contact Name: Accounts Payable				Contact Name: Gary Karp				P.O. #/ AFE#: 478033.0000002																			
Street Address: 7 Terracon Place				Street Address: 7 Terracon Place				Project #: 10-12553																			
City: Winnipeg Prov: MB Postal Code: R2J 4B3				City: Winnipeg Prov: MB Postal Code: R2J 4B3				Site #:																			
Phone: 204-489-2964				Phone: 204-489-2964				Site Location:				Rush Confirmation #:															
Email: parsonsinap.parsons@parsons.com				Email: gary.karp@parsons.com; jesse.burse@parsons.com; calgary.labreport@parsons.com				Site Location Province:																			
Copies:				Copies:				Sampled By: Shane Barry																			
Regulatory Criteria								Regular TurnAround Time (TAT)																			
<input type="checkbox"/> AT1 <input checked="" type="checkbox"/> CCME <input type="checkbox"/> Drinking Water - Canada <input type="checkbox"/> Drinking Water - Manitoba <input type="checkbox"/> Saskatchewan <input type="checkbox"/> Drinking Water - Alberta <input type="checkbox"/> Other _____								<input type="checkbox"/> 5 to 7 days <input checked="" type="checkbox"/> 10 days Rush TurnAround Time (TAT) - Surcharges apply <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 4 DAY																			
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS																											
Sample Identification		Date Sampled			Time (24hr)		Matrix	1 FIELD FILTERED 2 FIELD PRESERVED 3 LAB FILTRATION REQUIRED 4 BTEX F1 5 VOC 6 BTEX F1-F2 7 BTEX F1-F4 8 Routine Water 9 Regulated Metals - Total 10 Regulated Metals - Dissolved 11 Mercury - Total 12 Mercury - Dissolved 13 Salinity 4 14 Sieve (75 micron) 15 Texture (% Sand, Silt, Clay) 16 Basic Class II Landfill 17 Lead 18 19 20 21 22 # OF CONTAINERS SUBMITTED HOLD - DO NOT ANALYZE																			
		YY	MM	DD	HH	MM		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	SG-CB-01	21	11	18	12	55	Soil																				
2	SG-CB-02	21	11	18	12	59	Soil																				
3	SG-CB-03	21	11	18	13	03	Soil																				
4	SG-VC-01	21	11	18	13	15	Soil																				
5	SG-VC-02	21	11	18	13	21	Soil																				
6	SG-VC-03	21	11	18	13	26	Soil																				
7	SG-VC-04	21	11	18	13	31	Soil																				
8	SG-VC-04D	21	11	18	13	31	Soil																				
9	SG-VC-05	21	11	18	13	40	Soil																				
10	SG-VC-06	21	11	18	13	46	Soil																				
11	SG-VC-07	21	11	18	13	53	Soil																				
12	SG-VC-08	21	11	18	14	00	Soil																				
13	SG-VC-09	21	11	18	14	07	Soil																				
14	SG-VC-10	21	11	18	14	14	Soil																				
15	SG-VC-11	21	11	18	14	30	Soil																				
*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY																											
LAB USE ONLY Seal present <input checked="" type="checkbox"/> Seal Intact <input checked="" type="checkbox"/> Cooling media present <input checked="" type="checkbox"/>								Yes No Seal present <input checked="" type="checkbox"/> Seal Intact <input checked="" type="checkbox"/> Cooling Media Present <input checked="" type="checkbox"/>								LAB USE ONLY Seal present <input checked="" type="checkbox"/> Seal Intact <input checked="" type="checkbox"/> Cooling Media Present <input checked="" type="checkbox"/>								TEMPS BY: °C 15.1 15.1 15.2			
Relinquished by: (Signature/ Print) Jesse Bursee JR								Relinquished by: (Signature/ Print) Alane Amant Brown Reem Philippos, RA								SPECIAL INSTRUCTIONS C193750											



CONTINUED

[PAGE 1 REFERENCE]								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	COMMENTS	
SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS								FIELD FILTERED	FIELD PRESERVED	LAB FILTRATION REQUIRED	BTEX F1	VOC	BTEX F1-F2	BTEX F1-F4	Routine Water	Regulati	Regulated Metals - Dissolved	Mercury - Total	Mercury - Dissolved	Salinity 4	Sieve (75 micron)	Texture (% Sand, Silt, Clay)	Basic Class II Landfill	Lead					# OF CONTAINERS SUBMITTED		HOLD - DO NOT ANALYZE
Sample Identification		Date Sampled			Time (24hr)		Matrix																								
		YY	MM	DD	HH	MM																									
✓ 16	SG-VC-12	21	11	18	14	30	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 17	SG-VC-13	21	11	18	14	40	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 18	SG-VC-14	21	11	18	14	50	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 19	SG-SP-01	21	11	18	16	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 20	SG-SP-02	21	11	18	16	25	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 21	SG-SP-03	21	11	18	16	30	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 22	SG-SP-04	21	11	18	16	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 23	SG-SP-05	21	11	18	16	40	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
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✓ 29	SG-SP-10	21	11	18	17	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
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✓ 32	SG-SS-03	21	11	19	17	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
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✓ 36	SG-SS-07	21	11	19	10	00	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
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✓ 38	SG-SS-09	21	11	19	10	20	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
✓ 39	SG-SS-12	21	11	19	10	35	Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	
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42								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
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