



Screening Assessment Report

3344 Highway 149 Adjacent Properties
Eagan, MN

Prepared for:
Minnesota Pollution Control Agency
Dakota County
Gopher Resource

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Executive Summary

Landmark Environmental, LLC conducted a Screening Assessment to determine if the shallow soil on residential properties bordering an adjacent property at 3344 Highway 149 (the “Commercial Site”) in Eagan, Minnesota, may have been impacted with lead. There are thirteen (13) residential properties that border the Commercial Site and listed from east to west as follows:

- 3382 Rolling Hills Drive
- 3386 Rolling Hills Drive
- 3390 Rolling Hills Drive
- 3394 Rolling Hills Drive
- 626 Hillside Drive
- 630 Hillside Drive
- 634 Hillside Drive
- 638 Hillside Drive
- 642 Hillside Drive
- 646 Hillside Drive
- 650 Hillside Drive
- 654 Hillside Drive
- 658 Hillside Drive

Two previous investigations were conducted in the area. Dakota County conducted a lead study in 1992, which included some of the properties in the Hillside Drive neighborhood. The 1992 investigation found that lead concentrations in soil in the Hillside Drive neighborhood were below residential screening levels. In May 2020, Wenck Associates, Inc. completed a soil investigation at the Commercial Site as part of a real estate transaction. Sample results from grids primarily on the northwest portion of the Commercial Site bordering some of the residential properties showed concentrations of lead above the residential screening levels. A cleanup was completed for soil exceeding the industrial screening levels.

Landmark submitted the Work Plan for the Screening Assessment on June 23, 2020 to the Minnesota Pollution Control Agency (MPCA) and Dakota County. The MPCA approved the Work Plan on June 24, 2020. The field work portion of the Screening Assessment was conducted on July 13 through July 21, 2020. A total of 113 samples were collected by Landmark from 13 residential properties for laboratory analysis by Pace Analytical Services, Inc., an independent laboratory.

The Assessment determined the potential for impacts to soil based on the previous investigations. Concentrations of lead ranged from 7.5 to 238 mg/kg, typical of background concentrations in an urban area. Lead concentrations were reported below the MPCA Residential Soil Reference Value (RSRV) of 300 mg/kg.

Based on the results of the Screening Assessment, no additional investigations or response actions related to soil are necessary or recommended. The lead results in soil are consistent with the investigation conducted by Dakota County in 1992 and their conclusions that the area meets the MPCA RSRVs.

1.0 Introduction and Background

1.1 Introduction

With Minnesota Pollution Control Agency (MPCA) oversight, Landmark Environmental, LLC (Landmark) conducted a Screening Assessment (Assessment) to determine if the shallow soil on residential properties bordering an adjacent property at 3344 Highway 149 (the “Commercial Site”) in Eagan, Minnesota, may have been impacted with lead. There are thirteen (13) residential properties that border the Commercial Site and listed from east to west as follows:

- 3382 Rolling Hills Drive
- 3386 Rolling Hills Drive
- 3390 Rolling Hills Drive
- 3394 Rolling Hills Drive
- 626 Hillside Drive
- 630 Hillside Drive
- 634 Hillside Drive
- 638 Hillside Drive
- 642 Hillside Drive
- 646 Hillside Drive
- 650 Hillside Drive
- 654 Hillside Drive
- 658 Hillside Drive

For the purposes of this Assessment Report, the thirteen (13) residential properties are referred to hereafter as the “Properties” as shown on Figure 1 and Figure 2. Landmark submitted the Work Plan for Screening Assessment (Work Plan) on June 23, 2020, to the MPCA and Dakota County (Appendix A). The MPCA approved the Work Plan on June 24, 2020. The field work portion of the Assessment was conducted on July 13 through July 21, 2020, after obtaining written permission from each owner to access the Properties.

The Assessment provides an evaluation of soil for the Properties taking into account the results of previous investigations and response actions at the Commercial Property. Landmark collected and field screened soil samples at 113 grid locations to investigate the findings from the previous investigations and provide overall spatial coverage across the Properties.

Figure 2 shows the Assessment locations. All Assessment activities were conducted in accordance with Landmark Standard Operating Procedures (SOPs), which are included in Appendix A, as well as applicable MPCA guidance documents.

1.2 Background

The Hillside and Rolling Hills Drive housing construction took place in 1991 and 1992. The area was graded for the housing development at that time. Dakota County conducted a lead study in 1992, which included some of the properties in the Hillside Drive neighborhood. A total of five soil samples were collected in the Hillside Drive neighborhood in 1992 as shown in Appendix A. The 1992 investigation

found that lead concentrations in soil in the Hillside Drive neighborhood were below residential screening levels.

In May 2020, Wenck Associates, Inc. (Wenck) completed a soil investigation at the Commercial Site as part of a real estate transaction. Wenck documented the results of its work in a report titled Remedial Investigation, Industrial Property 3344 Highway 149, Eagan, MN prepared for Roles Properties, LLC, dated May 2020 (RI Report). Sample results from grids primarily on the northwest portion of the Commercial Site showed concentrations of lead above the MPCA Residential Soil Reference Value (RSRV) of 300 milligrams per kilograms (mg/kg) in grids that border some residential properties.

At this time, it is Landmark's understanding that response actions (RAs) to address lead in soil at the Commercial Site are complete, and the RAs addressed soils in excess of industrial soil reference values (ISRVs) of 700 mg/kg.

2.0 Assessment Results

2.1 Field Assessment Summary

On July 13 through July 21, 2020, a total of 113 samples were collected by Landmark from 113 grids on 13 residential properties for laboratory analysis as shown on Figures 1 and 2. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical Services, Inc. (Pace Analytical), an independent laboratory. The grids were approximately 20 feet by 20 feet. The sub grid samples were also submitted to the laboratory on hold. Two deeper samples were also collected from each grid from a depth of 0.5 to 1 foot and 1 to 1.5 feet and put on hold. On hold samples were to be analyzed if results were greater than the MPCA RSRVs.

Playground or vegetable or fruit gardens located within 20 feet of the grids were also sampled. If a playground or garden was located within the grid system, the sub grid samples were incorporated into that grid sample. A total of 37 grids were not able to be sampled due to dense vegetation or other obstructions such as paved areas including patios or a sports court. If thick vegetation was present on a property, an additional grid row was added and sampled so that each property would include collection of at least one grid row of samples.

The sample results are summarized in Tables 1 through 13 and sample locations shown on Figures 2 through 15. Grid rows started at the property line with grid row A, followed by B, C, etc. Grid samples progressed from left to right. Grid samples were named by the address number followed by the grid row and number. For example, the third sample in grid row B on 626 Hillside was named 626-B3. Grids that overlapped multiple rows or grid numbers were given a hybrid name such as 626-A/B1 or 626-C1/2. Field notes and a photo log are included in Appendix B. Appendix C includes the Pace Analytical laboratory reports and completed chain of custody forms.

The Properties and grid system were surveyed by Landmark's subcontractor W. Brown Land Surveying, Inc. on July 13 and 14, 2020. A public and private utility meet were conducted prior to sampling. Landmark also prepared a Site Safety Plan for the project. The sampling was conducted in accordance with the MPCA's approved Work Plan and Landmark's Standard Operating Procedures in Appendix A. A Global Positioning System (GPS) was also used to establish sample locations should they be need to be relocated in the future. Sample equipment was decontaminated after each probe with deionized water and a non-phosphorous based soap and then rinsed. A total 13.5 gallons of decontamination water was disposed at Gopher Resource's wastewater treatment plant on July 15, 20, and 21, 2020.

A total of 13 masked duplicate samples, one from each property, were sent to Pace Analytical for analysis and included with results included in Tables 1 through 13. Results show some variability in results which is common for a heterogeneous material such as soil, even though the sample was from a composited sample.

The neighborhood is bordered by a soil berm that is present from 658 Hillside Drive all the way to 3382 Rolling Hills Drive. The berm is on the residential properties and follows the length of the adjacent commercial property. The berm is present because there is a significant relief between the base of the houses and the top of the berm/adjacent property. The difference in elevation between the first floor of the houses and the top of the berm was usually 15 to 20 feet in difference. The berm was likely necessary as part of the development for the neighborhood. It can only be assumed that prior to the berm construction, there were eroded gullies and irregular drainage patterns. As part of the development in 1991, the berm would have been constructed by removing trees and filling gullies.

Soil types across all the Properties were relatively uniform. With few exceptions, soil on the berms was dark clay to a silty sandy mix designated by American Standard and Testing and Material (ASTM) Soil Classification SM/SC. Sand and gravel were encountered especially in the deeper soils near the toe of the berm. Soil types near and around gardens, retaining walls and other engineered structures were generally fill sand material with ASTM classification SP. With the exception of vermiculite and possible ash or mica silicate observed, no unusual soil types, odors or debris was encountered. Suspect vermiculite and potential ash/mica silicate was observed at 638 and 3394 respectively.

The following sections discuss specific details for each property and the results.

2.2 Field and Analytical Assessment Results

2.2.1 626 Hillside Drive

On July 17, 2020, a total of 6 samples were collected by Landmark from 626 Hillside Drive as shown on Figures 2 and 3. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. Grid B2 was not able to be sampled due a brick patio. There were two apple trees and a vegetable garden on the property. Grids B1 and B3 included the apple trees and grid AB/1 included the vegetable garden.

The sample results are summarized in Table 1. Concentrations of lead ranged from 18.1 to 57.7 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M8 was collected at grid A1.

2.2.2 630 Hillside Drive

On July 20, 2020, a total of 4 samples were collected by Landmark from 630 Hillside Drive as shown on Figures 2 and 4. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. Grid rows A and B were not able to be sampled due to heavy vegetation; a C grid row was established and sampled. There were no gardens, fruit trees or playgrounds.

The sample results are summarized in Table 2. Concentrations of lead ranged from 7.5 to 18.0 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M9 was collected at grid C2.

2.2.3 634 Hillside Drive

On July 16 and 17, 2020, a total of 9 samples were collected by Landmark from 634 Hillside Drive as shown on Figures 2 and 5. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. An additional C4 grid was established and sampled because of a pear tree.

The sample results are summarized in Table 3. Concentrations of lead ranged from 10.1 to 79.6 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M7 was collected at grid A3.

2.2.4 638 Hillside Drive

On July 14, 2020, a total of 8 samples were collected by Landmark from 638 Hillside Drive as shown on Figures 2 and 6. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. Grids B1, B2 and B3 included a vegetable garden and were sampled as part of the grid. The soils in the garden did not match native materials and was likely imported into the area to support the garden. Garden soils also appeared to have vermiculite.

The sample results are summarized in Table 4. Concentrations of lead ranged from 11.6 to 27.0 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M1 was collected at grid A1.

2.2.5 642 Hillside Drive

On July 14 and 15, 2020, a total of 8 samples were collected by Landmark from 642 Hillside Drive as shown on Figures 2 and 7. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. There were no gardens, fruit trees or playgrounds.

The sample results are summarized in Table 5. Concentrations of lead ranged from 15.1 to 153 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M2 was collected at grid A2.

2.2.6 646 Hillside Drive

On July 15, 2020, a total of 9 samples were collected by Landmark from 646 Hillside Drive as shown on Figures 2 and 8. Four grab samples were collected from each grid from ground surface to 0.5 feet and

composited into one sample for laboratory analysis at Pace Analytical. Grid C1/2 (Sample 646-C1/C2) was added for a playground.

The sample results are summarized in Table 6. Concentrations of lead ranged from 32.5 to 238 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M3 was collected at grid A3.

2.2.7 650 Hillside Drive

On July 15 and 16, 2020, a total of 11 samples were collected by Landmark from 650 Hillside Drive as shown on Figures 2 and 9. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. There were no gardens, fruit trees or playgrounds.

The sample results are summarized in Table 7. Concentrations of lead ranged from 60.4 to 238 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M5 was collected at grid A5.

2.2.8 654 Hillside Drive

On July 16, 2020, a total of 14 samples were collected by Landmark from 654 Hillside Drive as shown on Figures 2 and 10. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. There were no gardens, fruit trees or playgrounds.

The sample results are summarized in Table 8. Concentrations of lead ranged from 28.1 to 127 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M5 was collected at grid A1.

2.2.9 658 Hillside Drive

On July 16 and 20, 2020, a total of 7 samples were collected by Landmark from 658 Hillside Drive as shown on Figures 2 and 11. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. Because of dense vegetation in grid rows A through D, no samples were collected until grid row E. The vegetation included a grove of sumac trees and a row of arborvitaes. The E grid encompassed the back yard between the arborvitaes to within 20 feet of the house. Sample AB/1 was able to be collected. There were no gardens, fruit trees or playgrounds.

The sample results are summarized in Table 9. Concentrations of lead ranged from 55.5 to 156 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M6 was collected at grid AB/1.

2.2.10 3382 Rolling Hills Drive

On July 21, 2020, a total of 12 samples were collected by Landmark from 3382 Rolling Hills Drive as shown on Figures 2 and 12. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. There were no gardens, fruit trees or playgrounds. There was an 8-foot high fence with barbwire on the west property line.

The sample results are summarized in Table 10. Concentrations of lead ranged from 11.5 to 46.3 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M13 was collected at grid A2.

2.2.11 3386 Rolling Hills Drive

On July 21, 2020, a total of 4 samples were collected by Landmark from 3386 Rolling Hills Drive as shown on Figures 2 and 11. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. Because of heavy vegetation, grid rows A and B were unable to be sampled; grid row C was sampled. The woods behind the house were over grown with mature oaks, maples and lower growth was mostly buckthorn. Grid C2 was not able to be sampled because of a brick patio and grid C6 for a sports court. There were no gardens, fruit trees or playgrounds.

The sample results are summarized in Table 11. Concentrations of lead ranged from 8.1 to 30.9 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M12 was collected at grid C1.

2.2.12 3390 Rolling Hills Drive

On July 20, 2020, a total of 12 samples were collected by Landmark from 3390 Rolling Hills Drive as shown on Figures 2 and 14. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. A garden box was included as part of sampling for grid B1. There was also a storm sewer with grate on the west side of grids A3 and A4. The storm sewer appears to run north and south.

The sample results are summarized in Table 12. Concentrations of lead ranged from 21.9 to 223 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M11 was collected at grid A6.

2.2.13 3394 Rolling Hills Drive

On July 17 and 20, 2020, a total of 9 samples were collected by Landmark from 3394 Rolling Hills Drive as shown on Figures 2 and 15. Four grab samples were collected from each grid from ground surface to 0.5 feet and composited into one sample for laboratory analysis at Pace Analytical. There were no gardens, fruit trees or playgrounds. Some darker soils were encountered in the A/B1 grid at 3394. This

soil also contained some small reflective materials which could be a result of ash being mixed with the soil or could also be mica silicate.

The sample results are summarized in Table 13. Concentrations of lead ranged from 24.4 to 161 mg/kg. All results were reported at concentrations of lead less than the MPCA's RSRV of 300 mg/kg. A masked field duplicate named M10 was collected at grid B1.

3.0 Conclusions and Recommendations

The Assessment determined the potential for impacts to soil, based on the previous investigations. The following items summarize the field screening and laboratory results:

- No field screening indications of contamination were observed in any of the soil samples collected from the hand probe soil sampler with the exception of suspect vermiculite and potential ash/mica silicate observed at 638 and 3394 respectively. Some vermiculite is contaminated with a naturally occurring asbestos. The suspect vermiculite is likely not an issue because it is diluted with other soil and if sampled would likely be less than regulatory levels. The ash is likely from a residential fire pit.
- Soil samples were collected at 113 grid samples from 13 properties and analyzed for lead. Concentrations ranged from 7.5 to 238 mg/kg, typical of background concentrations in an urban area. Lead concentrations were reported below the MPCA RSRV of 300 mg/kg.

Based on the results of the Assessment, no additional investigations or response actions related to soil are necessary or recommended. The lead results in soil are consistent with the investigation conducted by Dakota County in 1992 and their conclusions that the area meets the MPCA RSRVs.

Tables

Table 1
Laboratory Results for Soil
626 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	M8	A2	A3
Type of Sample		Composite	Composite Duplicate A1	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/17/2020	7/17/2020	7/17/2020	7/17/2020
Lead	300	18.1	19.1	57.7	35.9

Sample Name	MPCA	B1	B3	A/B1
Type of Sample		Composite Apple Tree	Composite Apple Tree	Composite Vegetable Garden
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/17/2020	7/17/2020	7/17/2020
Lead	300	23.3	18.5	26.4

Notes:

B2 not sampled because of a brick patio

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 2
Laboratory Results for Soil
630 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	C1	C2	M9	C3	C4
Type of Sample		Composite	Composite	Composite Duplicate C2	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020
Lead	300	18.0	10.5	15.7	9.0	7.5

Notes:

Grid Rows A and B not sampled because of heavy vegetation

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 3
Laboratory Results for Soil
634 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	A3	M7	A4
Type of Sample		Composite	Composite	Composite	Composite Duplicate A3	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020
Lead	300	79.6	10.1	19.8	32.8	48.1

Sample Name	MPCA	B1	B2	B3	B4	C4
Type of Sample		Composite	Composite	Composite	Composite	Composite Pear Tree
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/17/2020	7/17/2020	7/17/2020	7/17/2020	7/17/2020
Lead	300	16.4	14.5	15.4	13.2	11.8

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 4
Laboratory Results for Soil
638 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	M1	A2	A3	A4
Type of Sample		Composite	Composite Duplicate of A1	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/14/2020	7/14/2020	7/14/2020	7/14/2020	7/14/2020
Lead	300	17.2	15.9	14.1	26.8	17.3

Sample Name	MPCA	B1	B2	B3	B4
Type of Sample		Composite Vegetable Garden	Composite Vegetable Garden	Composite Vegetable Garden	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/14/2020	7/14/2020	7/14/2020	7/14/2020
Lead	300	27.0	16.8	11.6	15.8

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 5
Laboratory Results for Soil
642 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	M2	A3	A4
Type of Sample		Composite	Composite	Composite Duplicate of A2	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/14/2020	7/14/2020	7/14/2020	7/14/2020	7/14/2020
Lead	300	153	67.8	93.5	83.3	70.4

Sample Name	MPCA	B1	B2	B3	B4
Type of Sample		Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/15/2020	7/15/2020	7/15/2020	7/15/2020
Lead	300	33.3	20.7	24.5	15.1

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 6
Laboratory Results for Soil
646 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	A3	M3	A4
Type of Sample		Composite	Composite	Composite	Composite Duplicate of A3	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/15/2020	7/15/2020	7/15/2020	7/15/2020	7/15/2020
Lead	300	238	163	162	146	181

Sample Name	MPCA	B1	B2	B3	B4	C1/C2
Type of Sample		Composite	Composite	Composite	Composite	Composite Playground
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/15/2020	7/15/2020	7/15/2020	7/15/2020	7/15/2020
Lead	300	66.7	62.9	41.5	44.2	32.5

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 7
Laboratory Results for Soil
650 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	A3	A4	A5	M4
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite Duplicate of A5
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/15/2020	7/15/2020	7/15/2020	7/15/2020	7/15/2020	7/15/2020
Lead	300	191	223	238	200	163	192

Sample Name	MPCA	B1	B2	B3	B4	B5	A/B1
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/15/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/15/2020
Lead	300	72.9	63.3	67.1	84.8	83.3	60.4

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 8
Laboratory Results for Soil
654 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	M5	A2	A3	A4	A5	A6
Type of Sample		Composite	Composite Duplicate of A1	Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020
Lead	300	106	98.3	96.6	107	70.7	78.9	127

Sample Name	MPCA	B1	B2	B3	B4	B5	B6
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020	7/16/2020
Lead	300	64.0	51.6	61.6	90.7	94.9	56.5

Sample Name	MPCA	A/B1	A/B2
Type of Sample		Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/16/2020	7/16/2020
Lead	300	94.3	28.1

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 9
Laboratory Results for Soil
658 Hillside Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	E1	E2	E3	E4	E5	E6
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020
Lead	300	109	81.9	73.3	55.5	66.8	108

Sample Name	MPCA	A/B1	M6
Type of Sample		Composite	Composite Duplicate of A/B1
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/16/2020	7/16/2020
Lead	300	156	153

Notes:

Grid Rows A, B, C and D not sampled because of heavy vegetation.

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 10
Laboratory Results for Soil
3382 Rolling Hills Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	M13	A3	A4	A5	A6
Type of Sample		Composite	Composite	Composite Duplicate of A2	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020
Lead	300	21.3	25.6	32.2	11.5	46.3	28.9	14.7

Sample Name	MPCA	B1	B2	B3	B4	B5	B6
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020
Lead	300	15.7	18.5	18.2	15.4	18.5	18.8

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 11
Laboratory Results for Soil
3386 Rolling Hills Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	C1	C3	C4	C5	M12
Type of Sample		Composite	Composite	Composite	Composite	Composite Duplicate of C1
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/21/2020	7/21/2020	7/21/2020	7/21/2020	7/21/2020
Lead	300	11.5	24.9	30.9	18.1	8.1

Notes:

No samples on A and B grids because of heavy vegetation. No C2 grid sample because of a brick patio and no C6 sample because of a sport court.

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 12
Laboratory Results for Soil
3390 Rolling Hills Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	A3	A4	A5	A6	M11
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite	Composite Duplicate of A6
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020
Lead	300	58.9	29.9	108	73.9	86.4	223	165

Sample Name	MPCA	B1	B2	B3	B4	B5	B6
Type of Sample		Composite	Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020
Lead	300	29.7	21.9	28.5	83.5	72.4	125

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

Exceeds the MPCA Residential Soil Reference Value

Table 13
Laboratory Results for Soil
3394 Rolling Hills Drive, Eagan, Minnesota
(Results in mg/kg)

Sample Name	MPCA	A1	A2	A3	A4	A/B1
Type of Sample		Composite	Composite	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/17/2020	7/17/2020	7/17/2020	7/17/2020	7/17/2020
Lead	300	50.7	51.4	52.4	30.8	41.7

Sample Name	MPCA	B1	M10	B2	B3	B4
Type of Sample		Composite	Composite Duplicate of B1	Composite	Composite	Composite
Depth (feet)	Residential	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.	0 - 0.5 ft.
Date Collected	SRVs	7/20/2020	7/20/2020	7/20/2020	7/20/2020	7/20/2020
Lead	300	38.2	24.4	69.4	124	161

Notes:

mg/kg: milligrams per kilogram

ppm = parts per million

mg/kg = ppm

MPCA: Minnesota Pollution Control Agency

SRV: Soil Reference Value

Composite sample composed of 4 subgrid grab samples

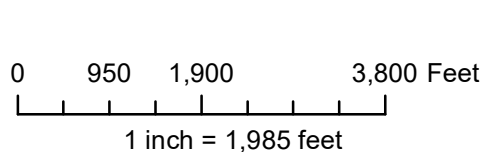
Exceeds the MPCA Residential Soil Reference Value

Figures



F:\GIS\Client\Grc\20\Projects

FIGURE 1



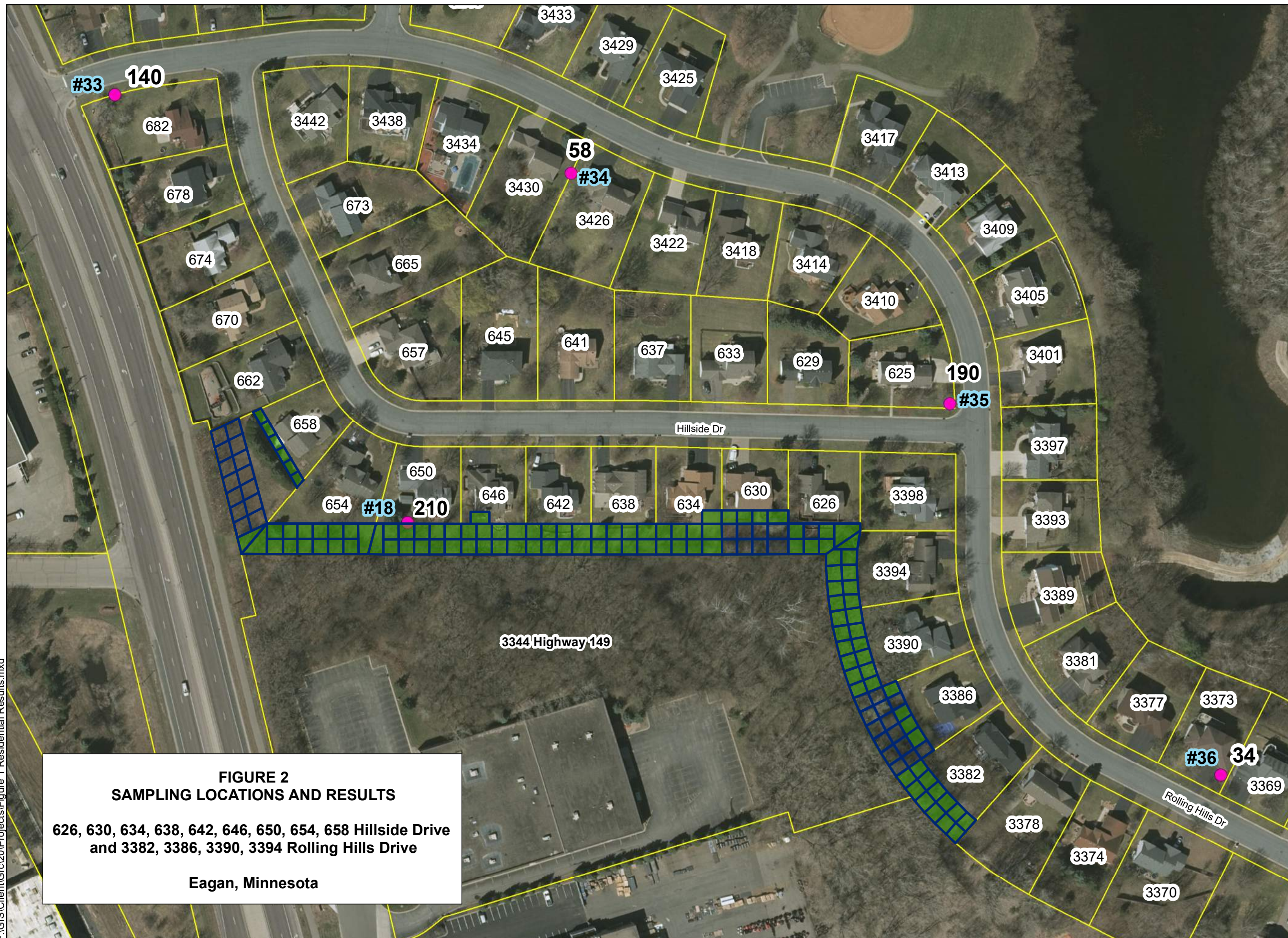
PROPERTY LOCATION MAP
 626, 630, 634, 638, 642, 646, 650, 654, 658 Hillside Drive
 and 3382, 3386, 3390, 3394 Rolling Hills Drive

Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

LEGEND

- Property Boundaries
 - Grid Sampling
 - Dakota County Sample Results (1992)
 - # Sample Number
 - 34 Lead Concentration (mg/kg) (1992)
 - Not Sampled due to Excessive Vegetation or Obstructions
- Lead Concentration (mg/kg)**
- <300
 - >300



0 30 60 120 Feet
1 inch = 120 feet

Drawn MCW
Scale 1"=100'
Date 07/23/2020



Legend

- Sampled Property
- Sampling Grid
- Property Boundaries
- Not Sampled due to Patio

Lead Concentration (mg/kg)

- <300
- >300

FIGURE 3

SAMPLING LOCATIONS AND RESULTS
626 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Legend

- Sampled Property
- Sampling Grid
- Property Boundaries
- Not Sampled due to Excessive Vegetation

Lead Concentration (mg/kg)

- <300
- >300

FIGURE 4

SAMPLING LOCATIONS AND RESULTS
630 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Legend

- Property Boundaries
- Sampling Grid
- Sampled Property

Lead Concentration (mg/kg)

- <300
- >300

FIGURE 5

SAMPLING LOCATIONS AND RESULTS
634 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



FIGURE 6

Legend

	Sampled Property	Lead Concentration (mg/kg)
	Sampling Grid	 <300
	Property Boundaries	 >300

SAMPLING LOCATIONS AND RESULTS
638 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Legend

	Sampled Property	Lead Concentration (mg/kg)
	Sampling Grid	 <300
	Property Boundaries	 >300

FIGURE 7

SAMPLING LOCATIONS AND RESULTS
642 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Legend

- Property Boundaries
- Sampling Grid
- Sampled Property

- Lead Concentration (mg/kg)**
- <300
 - >300

FIGURE 8

SAMPLING LOCATIONS AND RESULTS
646 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



F:\GIS\Client\Grc\20\Projects\Results Projects\Figure 9 650 Results.mxd

Legend

- Property Boundaries
- Sampling Grid
- Sampled Property

Lead Concentration (mg/kg)

- <300
- >300

FIGURE 9

SAMPLING LOCATIONS AND RESULTS
650 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



F:\GIS\Client\Grc\20\Projects\Results Projects\Figure 10 654 Results.mxd

Legend

 Sampled Property	Lead Concentration (mg/kg)
 Sampling Grid	 <300
 Property Boundaries	 >300

FIGURE 10

SAMPLING LOCATIONS AND RESULTS
654 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



F:\GIS\Client\Grc\20\Projects\Results Projects\Figure 11 658 Results.mxd

FIGURE 11

SAMPLING LOCATIONS AND RESULTS
658 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

Legend

- Grid Sampling
- Sampled Property
- Property Boundaries
- Not Sampled due to Excess Vegetation

Lead Concentration (mg/kg)

- <300
- >300



Legend

	Sampling Grid	Lead Concentration (mg/kg)
	Sampled Property	<300
	Property Boundaries	>300

FIGURE 12

SAMPLING LOCATIONS AND RESULTS
3382 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



F:\GIS\Client\Grc\20\Projects\Results Projects\Figure 13 3386 Results.mxd

Legend

 Sampled Property	Lead Concentration (mg/kg)
 Grid Sampling	 <300
 Property Boundaries	 >300
 Not Sampled due to Obstructions and Excessive Vegetation	

FIGURE 13

SAMPLING LOCATIONS AND RESULTS
3386 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Legend

- Sampled Property
- Sampling Grid
- Property Boundaries

Lead Concentration (mg/kg)

- <300
- >300

FIGURE 14

SAMPLING LOCATIONS AND RESULTS
3390 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



F:\GIS\Client\Grc\20\Projects\Results Projects\Figure 15 3394 Results.mxd

Legend

 	Sampled Property	Lead Concentration (mg/kg)
 	Sampling Grid	 <300
 	Property Boundaries	 >300

FIGURE 15

SAMPLING LOCATIONS AND RESULTS
3394 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

Appendices

Appendix A

Work Plan for Screening Assessment



Landmark Environmental, LLC

2042 West 98th Street

Bloomington, MN 55431

Phone: 952-666-2444

www.landmarkenv.com

June 23, 2020

Sent via email

*Landmark is proud to be an Affirmative
Action, Equal Opportunity Employer*

Michael Ginsbach
Minnesota Pollution Control Agency
Remediation Division
520 Lafayette Road North
St. Paul, MN 55155

Re: **Work Plan for Screening Assessment
3344 Highway 149 Adjacent Property, Eagan, Minnesota**

Dear Mr. Ginsbach:

Landmark Environmental, LLC (Landmark) is submitting this screening assessment work plan (Work Plan) to determine if the shallow soil on residential properties bordering an adjacent property at 3344 Highway 149 (the "Commercial Site") in Eagan, MN, may have been impacted with lead. There are thirteen (13) residential properties that border the Commercial Site and listed from east to west as follows:

- 3382 Rolling Hills Drive
- 3386 Rolling Hills Drive
- 3390 Rolling Hills Drive
- 3394 Rolling Hills Drive
- 626 Hillside Drive
- 630 Hillside Drive
- 634 Hillside Drive
- 638 Hillside Drive
- 642 Hillside Drive
- 646 Hillside Drive
- 650 Hillside Drive
- 654 Hillside Drive
- 658 Hillside Drive

For the purposes of this Work Plan, the thirteen (13) residential properties are referred to hereafter as the "Properties" as shown on **Figure 1** and **Figure 2**.

BACKGROUND

Dakota County conducted a lead study in 1992, including properties in the Hillside Drive neighborhood. A total of five soil samples were collected in the Hillside Drive neighborhood in 1992 as shown on **Figure 2**. The 1992 investigation found that lead concentrations in soil in the Hillside Drive neighborhood were below residential screening levels as shown in **Attachment 1**.

In May 2020, Wenck Associates, Inc. (Wenck) completed a soil investigation at the Commercial Site as part of a real estate transaction. Wenck documented the results of its work in a report titled *Remedial Investigation, Industrial Property 3344 Highway 149, Eagan, MN* prepared for Roles Properties, LLC,

dated May 2020 (RI Report). As described in the RI Report, Wenck established sampling grids that were 40 feet by 40 feet with sub grids of 20 feet by 20 feet. Wenck collected grab surface soil samples with a foot shovel from the center of each sub grid along with one sample in the middle of the main grid. These samples were composited and analyzed for lead. Grids on the northwest portion of the Commercial Site showed concentrations of lead above the Minnesota Pollution Control Agency (MPCA) Residential Soil Reference Value (RSRV) of 300 milligrams per kilograms (mg/kg) in grids that border some residential properties. In addition, there is one grid on the east side of the Commercial Site bordering two residential properties on Rolling Hills Drive that exceeded the MPCA RSRV.

At this time, it is Landmark's understanding that response actions (RAs) to address lead in soil at the Commercial Site is complete, and the RAs addressed soils in excess of industrial soil reference values (ISRVs) of 700 mg/kg. In addition, Landmark understands residents of the Hillside Drive neighborhood recently requested more information about the RAs after observing removal of trees and excavation of contaminated soil related to the Commercial Site RAs. As part of MPCA's review of the Commercial Site RAs, MPCA has identified that lead concentrations in soil located at the Commercial Site bordering the adjacent residential properties are above RSRVs.

WORK PLAN

This Work Plan outlines the scope of work for the environmental screening assessment (Screening Assessment) on the Properties aimed at determining the presence of lead in the shallow soil. The Screening Assessment will be conducted in coordination with the MPCA and Dakota County.

Following approval of this Work Plan, the proposed scope of work for the Screening Assessment consists of the following:

1. Obtain access to the residential properties.
2. Prepare a Site Safety Plan (SSP) prior to conducting field work. The SSP will be prepared in accordance with the provisions of 29 CFR 1910.120 and implemented in accordance with applicable MPCA guidelines. A field copy of the SSP will be present at the Properties during all on-site activities conducted by Landmark staff.
3. Conduct a property survey to identify the property lines and a grid sampling network. Wood stakes or markers will be placed at property lines and will be removed at completion of the assessment and report.
4. Coordinate a utility meeting and identify any buried public and private utilities in areas to be sampled prior to the start of the Screening Assessment. Spray paint is used to mark utilities.
5. Collect soil samples from a grid system at the Properties as shown on Figure 2. Soil samples will be collected in a similar manner as the grid sampling performed by Wenck for the Commercial Site. However, because of the smaller area of the Properties, small grids will be used and only four (4) grab samples will be composited in accordance with MPCA guidance.

Surface samples will be collected from the zero to six (6) inch soil horizon from each grid with a ½ inch diameter stainless steel probe. Each grid is approximately 20 feet by 20 feet with sub grids at 10 feet by 10 feet. The grids were shifted slightly from the Wenck grid system to break it up more evenly by property to minimize partial grids. One sample will be collected from the center of each sub grid. The four (4) grab samples will be composited into one sample and analyzed for total lead at a Minnesota certified laboratory such as Pace Analytical Services, Inc. or Legend Technical Services, Inc. Each of the subsamples will be submitted to the laboratory and put on hold. If a sample exceeds the MPCA RSRV, the subsamples could be analyzed to narrow down to the sub grid that exceeds the cleanup goal.

In addition, in the center of each grid, an additional deeper soil sample will be collected from six (6) to twelve (12) inches and from twelve (12) to eighteen (18) inches. These samples will be put on hold and analyzed only if contamination is identified in the surface soils of the grid above residential cleanup goals. This sample is collected to minimize additional sampling at a later date.

If playgrounds or vegetable gardens are located within 20 feet of the sampling grid system, Landmark will collect four grab samples and composite for analysis.

After each soil sample is collected, the soil probe and bowl will be washed with deionized water and non-phosphorous based soap and rinsed. The wash water will be collected and properly discharged into the sanitary sewer off-site. New gloves are used for each sample.

There are no plans to cut foliage, landscaping, or trees to conduct the sampling. Field staff will walk onto Properties after adequate notification, no driving on Properties will be permitted.

6. The sampling will be conducted in accordance with Landmark Standard Operating Procedures (Attachment 2) and applicable MPCA guidelines. Table 1 shows the number of grids and number of samples to be analyzed for each individual residential property. Approximately 10% duplicate samples will be collected for Quality Assurance/Quality Control purposes.
7. Sample locations will be located with Global Positioning System coordinates so that each sample location can be found after results come back.
8. All analytical data will be provided to both Landmark and the MPCA electronically in the MPCA developed Lab_MN EQUIS format. This format can be found at the following EarthSoft web page - http://www.earthsoft.com/?s=Lab_MN. The Lab_MN format electronic data deliverables shall be submitted directly to the MPCA from the analytical laboratory at the following email addresses: wqdata.mPCA@state.mn.us and michael.ginsbach@state.mn.us

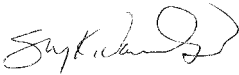
9. Once laboratory results are available, Landmark will prepare a Screening Assessment Report (Report). The Report will include figures showing sample locations, tables summarizing the results with comparison to residential cleanup goals, and appendices that include the laboratory analytical data and relevant field notes and a photo log.

SCHEDULE

This Work Plan proposes that the field work for the Screening Assessment be conducted starting approximately the week of July 13th assuming access is granted by the residential property owners. The Property survey will take approximately two (2) days, followed by the utility meet in two (2) days and sampling of all properties will be completed in approximately five (5) to seven (7) days. Analytical results usually are available in eight (8) to ten (10) days following completion of the field work, however, quick turnaround analysis will be completed if practical. The Screening Assessment Report will be submitted to the MPCA approximately two (2) weeks after Landmark has received the final laboratory results.

If you have any questions, please feel free to contact me by email at svanduyn@landmarkenv.com or at (952) 666-2420.

Sincerely,



Sherry Van Duyn, PE, CHMM
President

CC: Crague Biglow, MPCA
Cathy Undem, Dakota County
Dave Osberg, City of Eagan
Daniel Leach, Gopher Resource
Angela Fogarty, Gopher Resource

Attachments

Table 1 Proposed Sampling
Figure 1 Property Location Map
Figure 2 Proposed Sampling Locations
Attachment 1 Dakota County 1992 Data
Attachment 2 Standard Operating Procedures

Tables

Table 1
Proposed Sampling
3382, 3386, 3390, 3394 Rolling Hills Drive
626, 630, 634, 638, 642, 646, 650, 654, 658 Hillside Drive
Eagan, MN

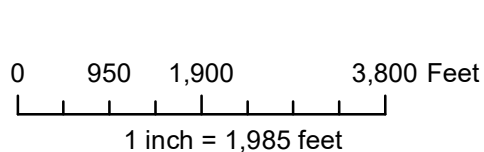
Address	Number of Grids*	Number of Surface Soil Composite Samples to be Analyzed*	Sample Rationale
3382 Rolling Hills Drive	12	12	Property borders 3344 Highway 149 (i.e., the Commercial Site)
3386 Rolling Hills Drive	12	12	
3390 Rolling Hills Drive	12	12	
3394 Rolling Hills Drive	9	9	
626 Hillside Drive	7	7	
630 Hillside Drive	8	8	
634 Hillside Drive	8	8	
638 Hillside Drive	8	8	
642 Hillside Drive	8	8	
646 Hillside Drive	8	8	
650 Hillside Drive	11	11	
654 Hillside Drive	14	14	
658 Hillside Drive	15	15	
Total	132	132	

* Grid size and number of samples is approximate. Actual grids will be based on surveyed lots and positioning approximate 20 feet by 20 feet grids in the field.

Figures



FIGURE 1



PROPERTY LOCATION MAP
 626, 630, 634, 638, 642, 646, 650, 654, 658 Hillside Drive
 and 3382, 3386, 3390, 3394 Rolling Hills Drive

Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

LEGEND

— Roads

□ Property
Boundaries

● Dakota County
Sample Results
(1992)

34 Sample Number

Lead
Concentration
(mg/kg)

33
20'
20'
Proposed Grid
Sampling*

*Grid Sampling includes 4 grab
samples composited for lab analysis

3344 Highway 149 (Wenck)¹

□ Composite Sample Grids

□ Sub Sample Grids

Composite Sample Locations

⊗ Not Sampled

⊙ Sampled

Sub Sample Locations

○ Not Sampled

● Sampled

Lead Concentration (mg/kg)

0-300

300-700

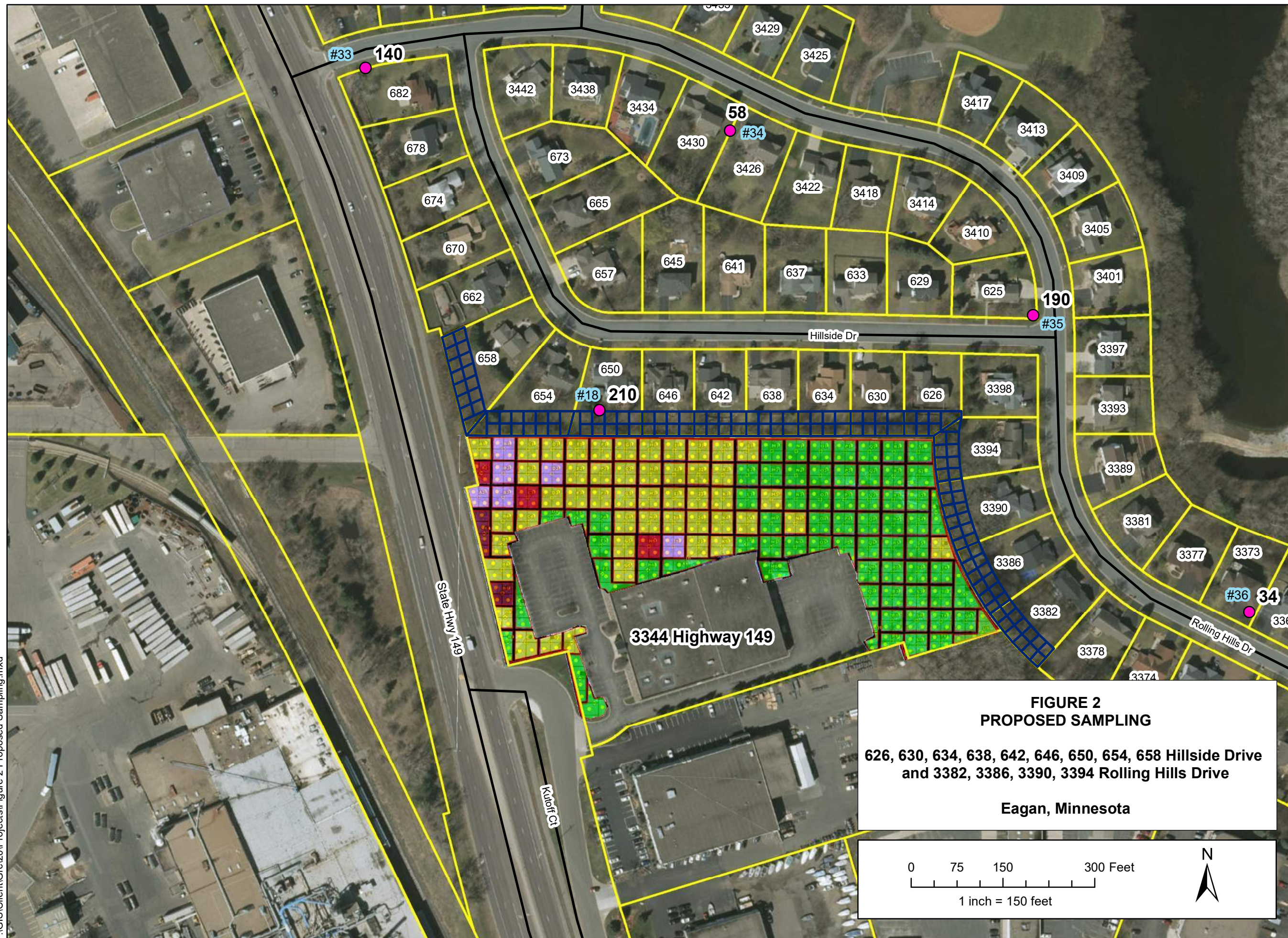
700-800

800-900

900-1000

1000+

Drawn MCW
Scale 1"=150'
Date 06/19/2020



Attachment 1
Previous Investigation Reports

Dakota County Soil Sediment and Water Lead Sampling and Analyses April, 1992

<u>Sample #</u>	<u>Sample Type</u>	<u>Result (mg/kgPb) a,b</u>	<u>Comment</u>
<i>500' radius from GSR stack</i>			
E-S-1 N	SOIL	4400	
E-S-2 NNE	SOIL	1000	
E-S-3 NE	SOIL	370	
E-S-4 ENE	SOIL	80	Recently sodded area
E-S-5 E	SOIL	1700	
E-S-6 ESE	SOIL	1200	Erosion gully
E-S-6-A ESE	SOIL	1200	30' NE of 6
E-S-7 E	SOIL	760	
E-S-7-A SE	SOIL	2400	Roadside adjacent sample 50' south of road
E-S-8 SSE	SOIL	1600	
E-S-9 S	SOIL	1100	
E-S-10 SSW	SOIL	580	
E-S-11 SW	SOIL	1100	split
E-S-12 WSW	SOIL	410	split
E-S-13 W	SOIL	390	split
E-S-14 WNW	SOIL	190	
E-S-15 NW	SOIL	740	
E-S-16 NNW	SOIL	2500	

1000' radius from GSR stack

E-S-17	SOIL	1900	Shoulder of road
E-S-17-A	SOIL	480	50' off road - in cultivated field last year.
E-S-18	SOIL	210	
E-S-19	SOIL	350	
E-S-20	SOIL	240	
E-S-21	SOIL	340	Sodded area
E-S-21-A	SOIL	270	runoff culvert
E-S-22	SOIL	810	
E-S-23	SOIL	320	
E-S-24	SOIL	190	
E-S-25	SOIL	98	
E-S-25	SOIL (As)	11	
E-S-26	SOIL	110	
E-S-27	SOIL	77	old cultivated field (4-5 years)
E-S-28	SOIL	210	roadside
E-S-28-A	SOIL	210	50' off road (N)
E-S-29	SOIL	180	
E-S-30	SOIL	520	
E-S-31	SOIL	620	
E-S-32	SOIL	1000	

a water analyses results are expressed in ug/l
b results are for lead unless otherwise indicated

P/Bennett/Parker
Gopher 1. Doc

<u>Sample #</u>	<u>Sample Type</u>	<u>Result (mg/kg) *</u>	<u>Comment</u>

1/4 mile radius from GSR stack

E-S-33	SOIL	140	
E-S-34	SOIL	58	
E-S-35	SOIL	190	
E-S-36	SOIL	34	
E-S-37	SOIL	830	
E-S-38	SOIL	11	
E-S-39	SOIL	370	
E-S-40	SOIL	320	
E-S-41	SOIL	120	
E-S-42	SOIL	73	
E-S-43	SOIL	70	
E-S-44	SOIL	150	
E-S-45	SOIL	20	
E-S-46	SOIL	130	
E-S-47	SOIL	130	Cultivated field approx 2 years ago
E-S-48	SOIL	230	edge of a new field

1/2 mile radius from GSR stack

E-S-49	SOIL	41	
E-S-49	SOIL (As)	24	
E-S-50	SOIL	41	
E-S-51	SOIL	52	
E-S-52	SOIL	190	
E-S-53	SOIL	33	
E-S-54	SOIL	68	
E-S-55	SOIL	59	
E-S-56	SOIL	35	
E-Sx-JP-16	SEDIMENT	30	
E-Sx-GP-5	SEDIMENT	160 (2)	
E-Sx-GP-5	SEDIMENT (Cd)	.8	
E-Sx-GP-5	SEDIMENT (Cr)	18	
E-Sx-GP-5	SEDIMENT (As)	ND	
E-Sx-GP-1.1	SEDIMENT	84 (7)	
E-Sx-GP1-B	SEDIMENT	78 (5)	
E-Sx-GP1-B	SEDIMENT (Cd)	ND	
E-Sx-GP1-B	SEDIMENT (Cr)	7.8	
E-Sx-GP1-B	SEDIMENT (As)	ND	
E-Sx-GP-1-A	SEDIMENT	47 (6)	
E-P-GP-5	WATER	15.4 (2)	
E-P-GP-5	WATER (Cd)	.31	
E-P-GP-5	WATER (Cr)	4.7	
E-P-GP-5	WATER (As)	ND	
E-P-GP-1	WATER	3.7 (C)	
E-P-GP-1	WATER (Cd)	ND	
E-P-GP-1	WATER (Cr)	1.4	
E-P-GP-1	WATER (As)	ND	

<u>Sample #</u>	<u>Sample Type</u>	<u>Result (mg/kg) *</u>	<u>Comment</u>

3/4 mile radius from GSR stack

E-S-57	SOIL	43	
E-S-57	SOIL (Arsenic)	9.4	
E-S-58	SOIL	47	
E-S-59	SOIL	110	
E-S-60	SOIL	38	
E-S-61	SOIL	24	
E-S-62	SOIL	42	
E-S-63	SOIL	8.3	
E-S-64	SOIL	73	
E-Sx-GP-2-A	SEDIMENT	7.6	
E-Sx-GP-2-B	SEDIMENT	72	
E-Sx-GP-9	SEDIMENT	160	
E-Sx-EP-7-C	SEDIMENT	51 (2)	
E-Sx-EP-7-B	SEDIMENT	39 (2)	
E-Sx-EP-7-B	SEDIMENT (Cd)	ND	
E-Sx-EP-7-B	SEDIMENT (Cr)	7.9	
E-Sx-EP-7-B	SEDIMENT (As)	ND	
E-Sx-EP-7-A	SEDIMENT	210 (1)	
E-Sx-JP-14	SEDIMENT	18	
E-Sx-JP-15	SEDIMENT	14	
E-Sx-JP-18	SEDIMENT	19	
E-Sx-JP-17	SEDIMENT	16	
E-P-EP-7	WATER	ND (1)	
E-P-EP-7	WATER (Cd)	ND	
E-P-EP-7	WATER (Cr)	6.2	
E-P-EP-7	WATER (As)	ND	
E-P-JP-14	WATER	ND	
E-P-JP-18	WATER	2.1	
E-P-JP-16	WATER	ND	

1 mile radius from GSR stack

E-S-65	SOIL	39	
E-S-65	SOIL (As)	7	
E-S-66	SOIL	26	
E-S-67	SOIL	30	
E-S-68	SOIL	8.1	
E-S-68-A	SOIL	14	
E-S-69	SOIL	4.8	
E-S-70	SOIL	16	
E-S-71	SOIL	10	
E-S-72	SOIL	24	
E-S-72-A	SOIL	19	
E-Sx-GP-8	SEDIMENT	23	
E-Sx-GP-13	SEDIMENT	43	
E-Sx-EP-4	SEDIMENT	34	
E-Sx-EP-4	SEDIMENT (Cd)	ND	
E-Sx-EP-4	SEDIMENT (Cr)	10	
E-Sx-EP-4	SEDIMENT (As)	ND	

trailer park
play area

<u>Sample #</u>	<u>Sample Type</u>	<u>Result (mg/kg) *</u>	<u>Comment</u>

1 mile radius from GSR stack (CONTINUED)

E-Sx-EP-5	SEDIMENT	13	
E-Sx-EP-6	SEDIMENT	40 (4)	
E-Sx-EP-1	SEDIMENT	31	
E-P-EP-1	WATER	ND	
E-P-GP-2	WATER	ND	
E-P-EP-6	WATER	3.6	
E-P-EP-4	WATER	3.5 (1)	
E-P-EP-4	WATER (Cd)	ND	
E-P-EP-4	WATER (Cr)	62.1	
E-P-EP-4	WATER (As)	ND	

Greater than 1 mile radius from GSR stack

E-Sx-FP-7-A	SEDIMENT	5.5	
E-Sx-FP-7-B	SEDIMENT	22	
E-P-FP-7	WATER	ND	

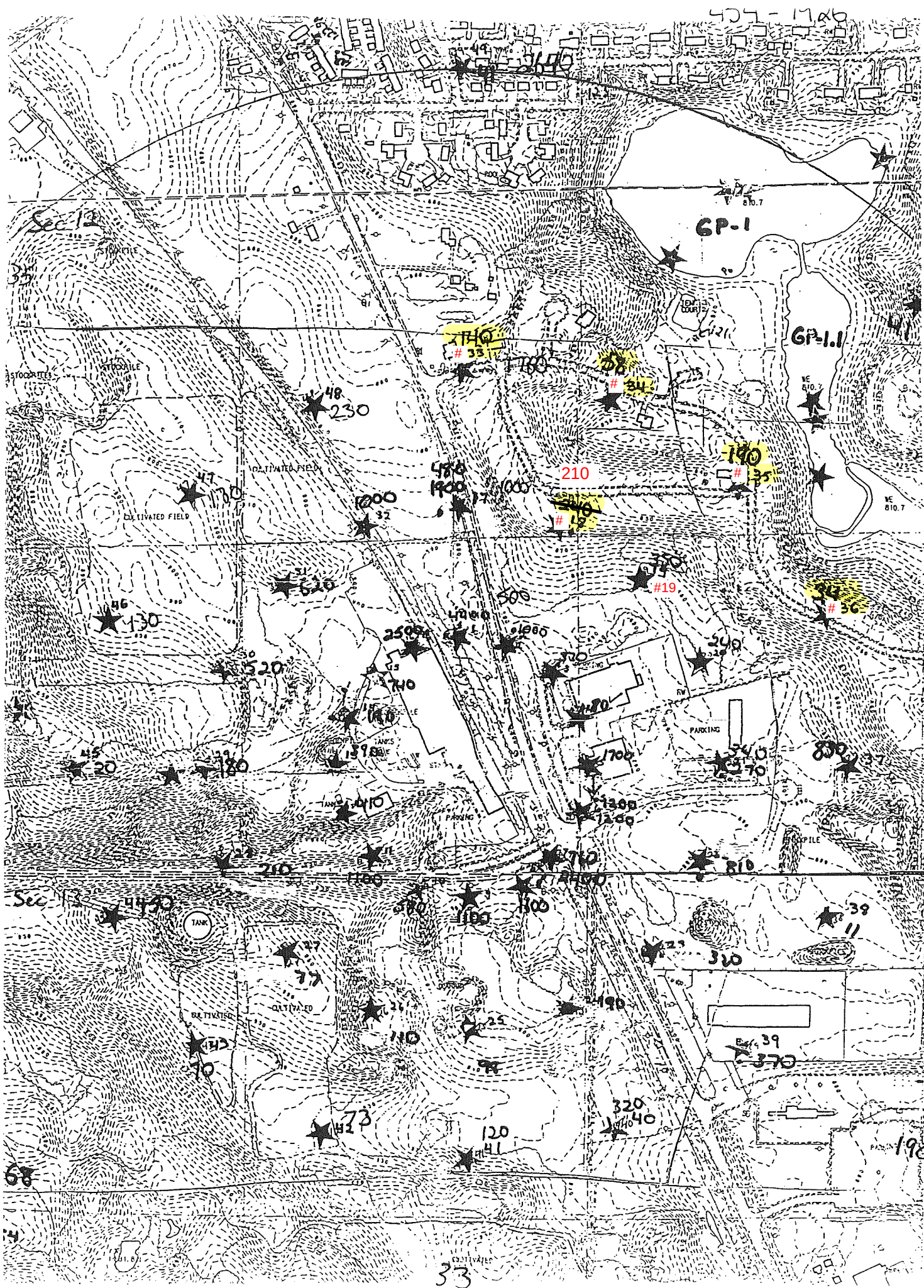
Special sampling sites

E-S-120	SOIL	6.4	playground
E-S-120-A	SOIL	ND	playground
E-S-121	SOIL	7.2	playground
E-S-122	SOIL	130	play area between townhomes
E-S-122-A	SOIL	77	foundation of townhome
E-S-122-B	SOIL	140	adjacent to downspout
E-S-123	SOIL	66	park area
E-S-124	SOI	45	residential lawn
E-S-125	SOIL	19	residential

June, 1994 sampling results

1	SOIL	40	playground
2	SOIL	59	playground
3	SOIL	31	grassy swale
4	SOIL	23	residential lot
5	SOIL	40	playground
6	SOIL	120	playground

pubinf\gopher1\jps



52

190

33

Dakota County soil data collection event April, 1992

500' radius

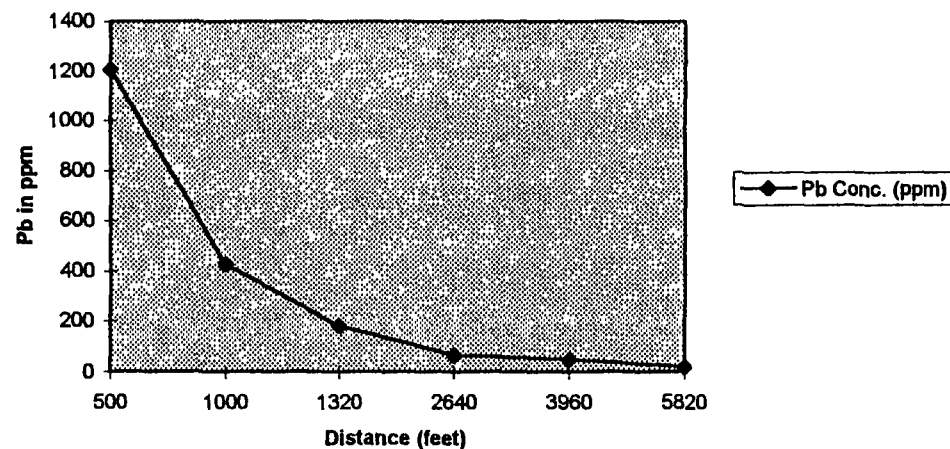
				Average	Average deviation
E-S-1	SOIL	4400			
E-S-2	SOIL	1000			
E-S-3	SOIL	370			
E-S-4	SOIL	80			
E-S-5	SOIL	1700			
E-S-6	SOIL	1200			
E-S-6A	SOIL	1200			
E-S-7	SOIL	760			
E-S-7A	SOIL	2400			
E-S-8	SOIL	1600			
E-S-9	SOIL	1100			
E-S-10	SOIL	580			
E-S-11	SOIL	1100			
E-S-12	SOIL	410			
E-S-13	SOIL	390			
E-S-14	SOIL	190			
E-S-15	SOIL	740			
E-S-16	SOIL	2500	1206.667	729.6296296	

1000' radius

E-S-17	SOIL	1900			
E-S-17A	SOIL	480			
E-S-18	SOIL	210			
E-S-19	SOIL	350			
E-S-20	SOIL	240			
E-S-21	SOIL	340			
E-S-21A	SOIL	270			
E-S-22	SOIL	810			
E-S-23	SOIL	320			
E-S-24	SOIL	190			
E-S-25	SOIL	98			
E-S-26	SOIL	110			
E-S-27	SOIL	77			

Distance (feet)	500	1000	1320	2640	3960	5820
Pb Conc. (ppm)	1206	428	180	65	48	19

Pb Concentrations vs. distance from GSR stack

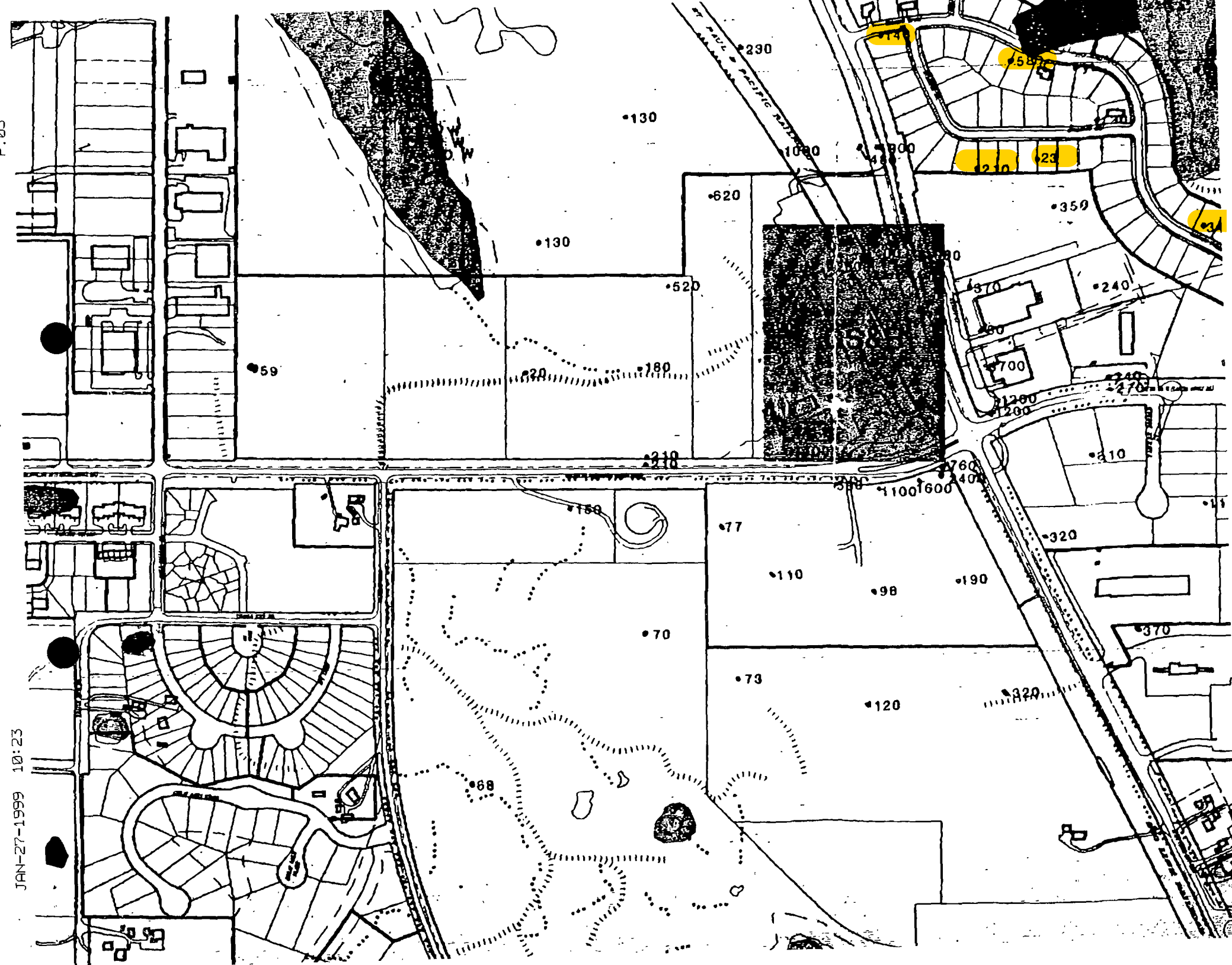


Soil lead data, April 1992

	E-S-28	SOIL	210									
	E-S-28A	SOIL	210									
	E-S-29	SOIL	180									
	E-S-30	SOIL	520									
	E-S-31	SOIL	620									
	E-S-32	SOIL	1000	428.1579	290.6371191							
1/4 mile												
	E-S-33	SOIL	140									
	E-S-34	SOIL	58									
	E-S-35	SOIL	190									
	E-S-36	SOIL	34									
	E-S-37	SOIL	830									
	E-S-38	SOIL	11									
	E-S-39	SOIL	370									
	E-S-40	SOIL	320									
	E-S-41	SOIL	120									
	E-S-42	SOIL	73									
	E-S-43	SOIL	70									
	E-S-44	SOIL	150									
	E-S-45	SOIL	20									
	E-S-46	SOIL	130									
	E-S-47	SOIL	130									
	E-S-48	SOIL	230	179.75	130.15625							
1/2 mile												
	E-S-49	SOIL	41									
	E-S-50	SOIL	41									
	E-S-51	SOIL	52									
	E-S-52	SOIL	190									
	E-S-53	SOIL	33									
	E-S-54	SOIL	68									
	E-S-55	SOIL	59									
	E-S-56	SOIL	35	64.875	32.0625							
3/4 mile												
	E-S-57	SOIL	43									
	E-S-58	SOIL	47									
	E-S-59	SOIL	110									
	E-S-60	SOIL	38									

Soil lead data, April 1992

	E-S-61	SOIL	24									
	E-S-62	SOIL	42									
	E-S-63	SOIL	8.3									
	E-S-64	SOIL	73	48.1625	21.66875							
one mile												
	E-S-65	SOIL	39									
	E-S-66	SOIL	26									
	E-S-67	SOIL	30									
	E-S-68	SOIL	8.1									
	E-S-68A	SOIL	14									
	E-S-69	SOIL	4.8									
	E-S-70	SOIL	16									
	E-S-71	SOIL	10									
	E-S-72	SOIL	24									
	E-S-72A	SOIL	19	19.09	8.528							



Attachment 2
Landmark SOPs

Standard Operating Procedure for General Soil Sample Collection – Metal Analysis

June 12, 2020

Introduction

This document describes technical standard operating procedures (SOPs) prepared by Landmark Environmental, LLC (Landmark). This SOP, which has been submitted to the U.S. Environmental Protection Agency (EPA) for review is based on the Minnesota Pollution Control Agency (MPCA) and has been prepared in accordance with *Guidance for Preparing Standard Operating Procedures (QA/G-6)*, EPA, EPA/240/B-01/004, March 2001. This SOP provides procedures for field methods and procedures for the collection of soil samples that will be submitted for laboratory analysis for a variety of hazardous substances. This SOP also provides procedures for integrated and grab sample collection, as well as quality assurance/quality control (QA/QC) procedures for field sample collection and laboratory analysis. This SOP also provides procedures for grab and composite sample collection, as well as quality assurance/quality control (QA/QC) procedures for field sample collection and laboratory analysis.

A variety of samplers (Geoprobe, backhoe, split-barrel, auger, shovel, and hand sampling methods) may be used to retrieve soil from sampling locations. Immediately after collection, the soil sample will be transferred to laboratory-supplied containers. Equipment required to transfer soil from the sampler to the laboratory-supplied sample containers includes single uses disposable nitrile gloves, stainless steel spoons or scoops, and the appropriate personal protective equipment necessary for collection and handling of soil samples as described in the Site Safety Plan (SSP).

To prevent sample cross-contamination, all soil sampling equipment will be new and or cleaned prior to sampling. All sampling tools, including split-barrels and stainless-steel spoons and scoops, will be cleaned before use and between samples by washing with a soap free of phosphate and 1,4-dioxane/clean-water solution (such as Seventh Generation Free ®) and rinsed with potable water. using a brush if necessary, and rinsing with potable water. Gloves will be discarded between sampling locations.

Metal Analysis

Soil samples collected with a sampler:

1. Open the sampler.
2. For VOCs analysis collect sample directly from the sampler using either a subcoring device, such as an Encore sampler™ or a modified syringe. Obtain the soil sample and either cap the subcoring device immediately or extrude the sample into a sample jar that contains methanol from the laboratory and immediately screw on the lid.
3. If a composite sample is required, place the remaining soil into a stainless steel or other inert container for mixing. Mix thoroughly to obtain a homogenous sample that is representative of the entire sample. Mixing soil for homogenous sample is applicable for Metals. Mix thoroughly with either a gloved hand or clean inert mixing apparatus. This will ensure a sample that represents a mixed aliquot of the soil. Place soil into each appropriate container and wipe the jar lip and screw threads to remove soil and provide a good sealing surface, immediately screw on

the lid. If the sample was homogenized, complete notes on the field homogenization sheet. Laboratory performed incremental sub-sampling techniques procedures are presented in the Appendix C (Laboratory Certifications) of the QAPP.

4. These and all samples will be documented within a chain-of custody (COC), one per cooler and cooled to approximately 4°C. Ice used for cooling will be made from potable water. When the MPCA provides a COC, it will be adopted. The samples will either be hand delivered to the laboratory or by direct courier. A Pace provided COC is provided as Attachment 1.

Soil samples collected by hand:

1. Dig to the desired sampling interval, exposing a fresh soil surface to sample.
2. Collect a large sample on a shovel or auger and bring it to the surface, or collect the sample directly from the fresh soil surface.
3. If a composite sample is required, place the remaining soil into a stainless steel or other inert container for mixing. Mix thoroughly to obtain a homogenous sample representative of the entire sample. Mixing soil for homogenous sample is applicable for Metals Analytical Samples. Place the remainder of the sample into a clean stainless steel or other homogenization container and mix thoroughly with either a gloved hand or inert clean mixing apparatus. If the sample was homogenized, complete notes on the field homogenization sheet. This will ensure a sample that represents a mixed aliquot of the soil. Wipe the jar lip and screw threads to remove soil and provide a good sealing surface, and immediately screw on the lid. Laboratory performed incremental sub-sampling techniques procedures are presented in the Appendix C (Laboratory Certifications) of the QAPP.
4. These and all samples will be documented with in a chain-of custody (COC), one per cooler and cooled to approximately 4°C. Ice used for cooling will be made from potable water. (See example COC at end of SOP.)

Sample Storage

Field personnel will maintain custody of the samples until transferred to the shipper or laboratory.

Documentation on a Chain-of-Custody

The Chain-of-Custody (see Attachment 1) shows traceable possession of samples from the time they are obtained until they arrive at the laboratory.

1. Complete the Chain-of-Custody prior to leaving the sampling location.
2. Complete one Chain-of-Custody or more as needed for each cooler of samples.
3. Provide the following information on the Chain-of-Custody form:
 - Project number
 - Sample identification
 - Date and time of sample collection
 - Container type and number

- Whether the sample is a grab, composite, or blank sample
- Project manager
- Project contact
- Laboratory
- Analyses required
- Signature of sampler(s)
- Signature of transferee
- Date and time of transfer
- Method of transport and any shipping numbers

This SOP was prepared by:

Name: Eric Gabrielson

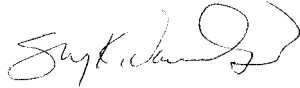


Signature:

Title: Field Manager

This SOP was reviewed by:

Name: Sherry Van Duyn



Signature:

Title: Project Manager

This SOP was approved by:

Name: Ken Haberman



Signature:

Title: Quality Assurance Manager

Pace Analytical®
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Attachment 1 to SOPs

Instructions for completing Chain of Custody (COC)

1. **Section A and B:** Complete all Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are questions, and who will receive the final report.), e-mail address (if available), PO#, Project Name and/or Project Number as you would like to see it appear on the report.
2. **Section C:** Invoice Information: Billing information is included in this section. This information should include the name and address of the person receiving the invoice.
3. Quote Reference should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by Pace Analytical Services.
4. **Site Location:** A separate COC must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the samples were collected.
5. **Regulatory Agency:** List the program that is guiding the work to ensure proper regulations are followed.
6. **Section D:** Complete a Sample Description in the “SAMPLE ID” section as you would like it to appear on the laboratory report. The following information should also be included: the sample matrix, sample type (G (grab) or C (composite). When collecting a composite, the start time and end time should be documented in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked ‘Composite End/Grab’), Sample temp at collection (if required by state), the total number of containers, and preservative used.
7. Mark if the sample was filtered in the field by marking Y or N in ‘Filtered’ row by the Analysis requested.
8. Requested Analysis: List the required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. Additional comments should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.
9. The sampler should print their name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the spaces designated for ‘SAMPLER NAME AND SIGNATURE’.
10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

***Important Note:**

Standard Turnaround Time is 2 Weeks/10 business days. Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.

Appendix B

Field Sheets and Photo Logs



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
626 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Enter Specific Address Here 626

Date: 7/17/2020

Reported by: JEG CRE MTW

Time Onsite: 9:30

Weather Conditions: Hot Humid

Individual Property Grid Sampling Summary

Number of Grids Sampled (7 - 1)

Description of Vegetation Kept lawn with weeds and

QAQC Samples Collected M-8 collected @ A1

Notes:

Did not sample B2 because of a
Brick patio

There were two Apple trees + a veg garden
B1 + B3 had the Apple trees

AB/I had the veg garden

No evidence of chi Hren @ the house

Add Photo People seemed middle aged

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

SAMPLING LOCATIONS AND RESULTS
630 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

FIGURE 1



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
630 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Enter Specific Address Here 630

Date: 7/20/20

Reported by: AJS + JEG

Time Onsite: 9:45

Weather Conditions: 108°F Sunny

Individual Property Grid Sampling Summary

Number of Grids Sampled 4

Description of Vegetation: see below

QAQC Samples Collected

Notes: L → M-9 on C-2

only sampled Crow due to heavy vegetation
No evidence of children @ the house
Zero vegetation near deck
Forest is a mix of mature oaks maples
some sumac and Buck Thorn all
beyond the boulder wall

Add Photo

F:\GIS\Client\Grc20\Projects\Figure 2 Residential.mxd





Enter Specific Address Here 634

Date: 3/16/20 3/17/20

Reported by: JEG MTW ASS CRE

Time Onsite: 214:00 / 0800

Weather Conditions: Cloudy Humid

Individual Property Grid Sampling Summary

Number of Grids Sampled 8 + 1 (C4) C4 = Pear tree

Description of Vegetation typical lawn - lots of weeds

QAQC Samples Collected

→ M-7 on A-3

Notes:

Forest is mature
oaks (maples
with
oak + horn
lateral growth

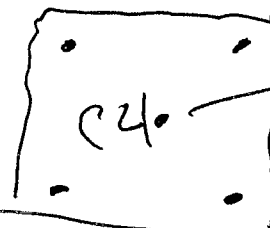
Windy grass - no evidence of
children

Added C4 for a pear tree

House

Add Photo

29



→ 630 (property)

Pear
tree

B1

B2

B3

B4

A1

A2

A3

A4

F:\GIS\client\Grc\201\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
638 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Field Report

Enter Specific Address Here

Date: 7/14/20

638

Reported by: AJS

Time Onsite: 09:30

Weather Conditions: - Rain

Individual Property Grid Sampling Summary - Grid B1, B2 + B3 include veg garden and will be collected as part of sampling

Number of Grids Sampled

Description of Vegetation

Within fence - std grass - mowed
beyond fence is managed Buckhorn

QAQC Samples Collected

Notes:

AI-M1

- Fence is approximately 4' from property line on the South side

- North/south fence line follows property line closely.

- Because of rain -> GIS not employed

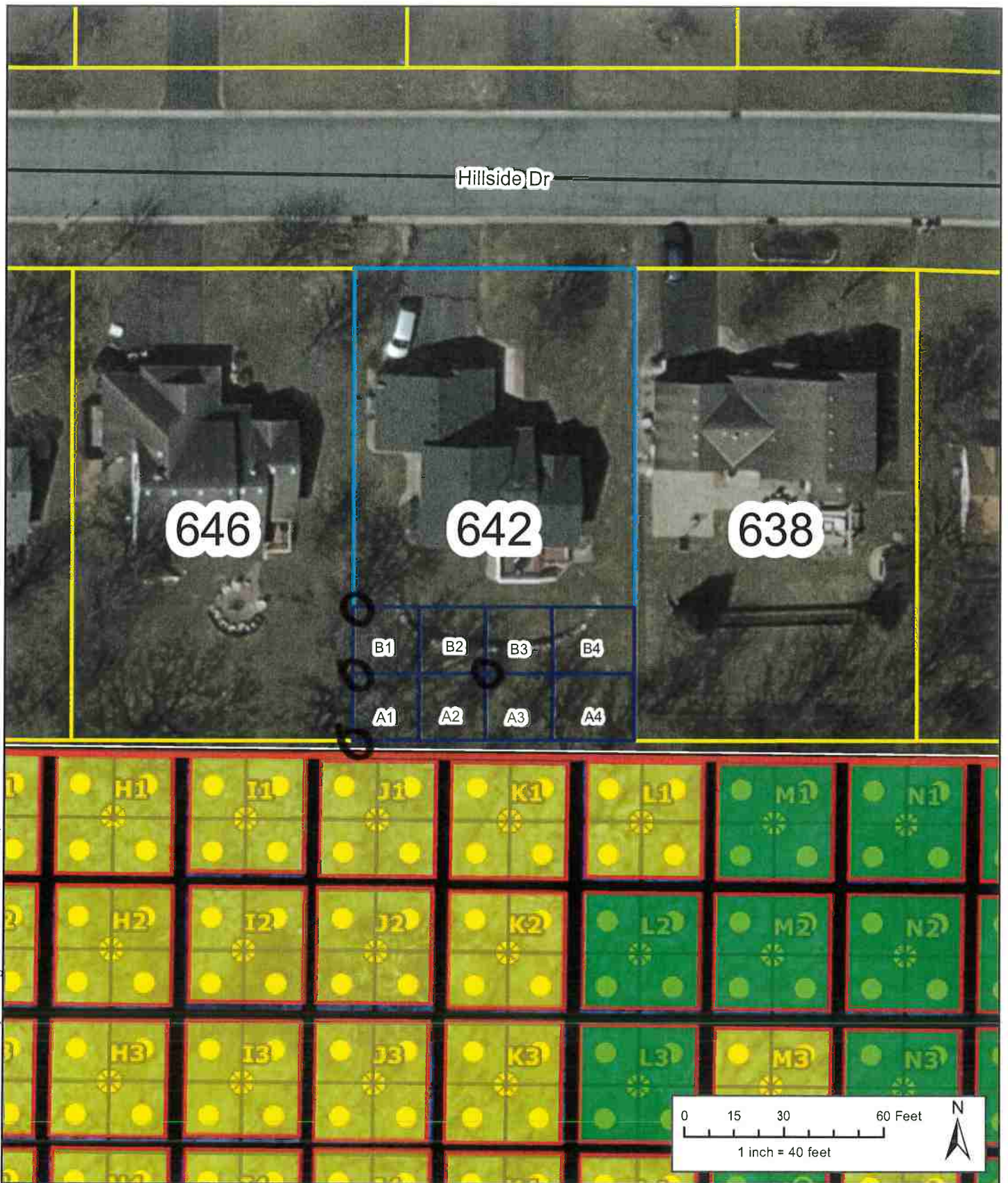
- B1 - NW 638 -> garden B2 - NW -> garden

- B1 - NE 638 -> garden B2 - NE -> garden

Add Photo

Native soils included silty sand from 0 - 12" - on deep
soils samples brown gular sands were encountered.

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

FIGURE 1
SAMPLING LOCATIONS AND RESULTS
642 Hillside Drive
Eagan, Minnesota
LANDMARK ENVIRONMENTAL, LLC



LANDMARK
Environmental

Field Report

642 Hillside Drive

Enter Specific Address Here

Date: 7/14/2020 and 7/15/20

Reported by:

Time Onsite: 13:50

Weather Conditions: cloudy, some Rain

Individual Property Grid Sampling Summary

Number of Grids Sampled 8

Description of Vegetation grassy in sample area, some sparse trees outside of sample area
Weeds noted in grass

QAQC Samples Collected M-2 A-2

Notes: No noticed vegetable garden,

~ lawn is taken care of ~ 30 yards beyond property line

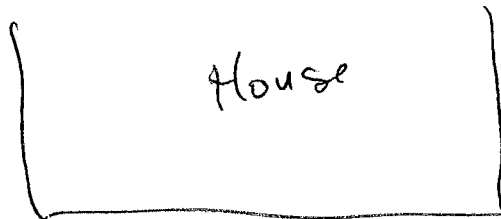
~ thick brush than grass beyond lawn.

Native soils include silty sand - some grater sand noted @ 12" bgs.

Large boulder wall within sand system

Add Photo

N



B --- Pipe --- B

AB --- AB

A

A

Add C1/2

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
646 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



LANDMARK
Environmental

Field Report

Children under 10
observed
at this
house

Enter Specific Address Here 646

Date: 7/15/2020

Reported by: JEG ASS

Time Onsite: 09:56

Weather Conditions: Clear

Individual Property Grid Sampling Summary

Number of Grids Sampled 8 + 1 Adding C1/C2 because of play ground

Description of Vegetation No veg garden - Weedless lawn -

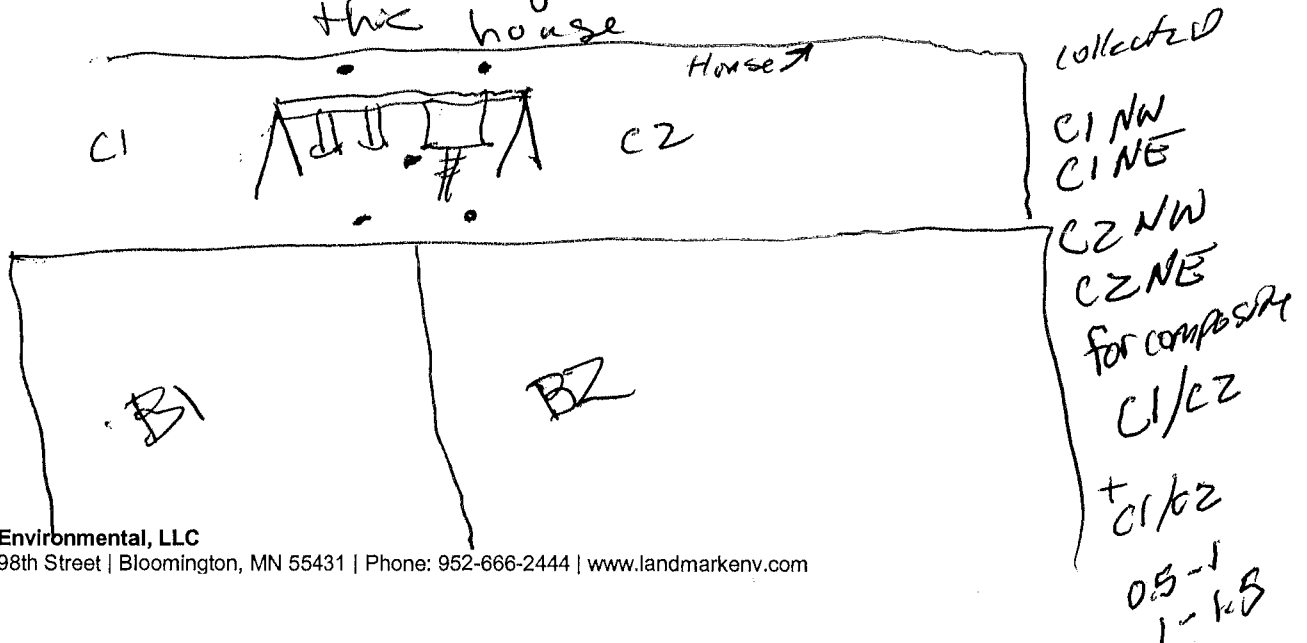
QAQC Samples Collected M-3 (A-3)

Notes:

Measure 20 yds extra property into adjacent
Property - beyond mature oaks and buckthorn.
Brick patio in B3 - worked around - area with soil
Sampling under the bricks

Add Photo

Add sampling location because of a playset
and possibly coming for other children @
this house





Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

SAMPLING LOCATIONS AND RESULTS

650 Hillside Drive

Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

FIGURE 1



Enter Specific Address Here 650

Date: 7/15/2020 + 7/16/20

Reported by: JEG MCW ASS

Time Onsite: 1315

Weather Conditions: cloudy

Individual Property Grid Sampling Summary

Number of Grids Sampled 11

Description of Vegetation Weedy Less Lawn - No garden or evidence of children

QAQC Samples Collected ~~XXXXXXXXXX~~ AAS + AS

Notes:

This homeowner only takes care of his yard. The forest is full of mature oaks + maples with sub trees all back there

Owner of home looks late middle age - No evidence of children

Add Photo

No issue / completed A1/B1 +
A1 - A5 + B1
Finish on
7/16/20



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

SAMPLING LOCATIONS AND RESULTS

654 Hillside Drive

Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

FIGURE 1



Enter Specific Address Here 654

Date: 7/16/20

Reported by: AJS + JEG

Time Onsite: 10:00

Weather Conditions: 75°F Sunny

Individual Property Grid Sampling Summary

Number of Grids Sampled

Description of Vegetation A/B1 → overgrown vegetation (trees/plants)
all A row ↑

QAQC Samples Collected

Notes: ↳ M-S on A-1

Back of property ~~very~~ overgrown, still sampled
trampoline in yard
original owner from 1992 - Past middle age. Likely no
kids at this house. There's a trampoline possibly for
grandkids. No veg garden. Soil remediation noted on
adjacent Property

Add Photo

Owner does not occupy adjacent land back
of yard is lined with flowers
Needless grass lawn

50

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
658 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Legend

- Roads
- Property Boundaries
- Sampled Property
- Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300		800-900	
300-700		900-1000	
700-800		1000+	

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
658 Hillside Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



Field Report

658

Enter Specific Address Here

Date: 7/16/2020

Reported by: SEG AJS MCW

Time Onsite: 14:30

Weather Conditions: cloudy

Individual Property Grid Sampling Summary

Number of Grids Sampled

1 East AB1

Description of Vegetation

HEAVY vegetation thick - Not sampled based on comments from Sherry

QAQC Samples Collected

= M-6 @ AB-1

Notes:

No evidence of children

ON 7/20/20 Returned to sample "E" Grid

Right behind the house - Weedless lawn

Arch corners - beyond is sumac grove 5-12'

Add Photo



Legend

- Roads
- Property Boundaries
- Sampled Property
- Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300		800-900	
300-700		900-1000	
700-800		1000+	

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
3382 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



LANDMARK
Environmental

Field Report

Enter Specific Address Here 3382

Date: 7/21/20

Reported by: JEG + AJJ

Time Onsite: 9:16

Weather Conditions: heavy rain

Individual Property Grid Sampling Summary

Number of Grids Sampled

Description of Vegetation

QAQC Samples Collected

Notes: ↳ M-13 on A-2

Managed woods in both A+B grid
No evidence of deer trees and no garden

Add Photo

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
3386 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

Source: 1. Remedial Investigation Report, Grid Sample Location Map, 3344 Highway 149, Wenck Associates, Inc. 5/2020. Grid U9 not shaded in RI report.



LANDMARK
Environmental

Field Report

Enter Specific Address Here 3386

Date: 7/21/20

Reported by: JEG AJS

Time Onsite: 0800

Weather Conditions: RAIN

Individual Property Grid Sampling Summary

Number of Grids Sampled

Description of Vegetation

QAQC Samples Collected

Notes: ↳ M-12 on C-1

Because of heavy forest coverage A+B grids
skipped and moved to the "C" grid -
*no C2 sample b/c of brick pation
no C6 sample b/c of sport court
No garden children appear over 10

Add Photo

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

SAMPLING LOCATIONS AND RESULTS
3390 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC

Enter Specific Address Here

Date: 7/20/20

3390

Reported by: JEG MTW

Time Onsite: 13:00

Weather Conditions: sunny

Individual Property Grid Sampling Summary

Number of Grids Sampled 12

Description of Vegetation: Weedy lawn mixed with mature trees

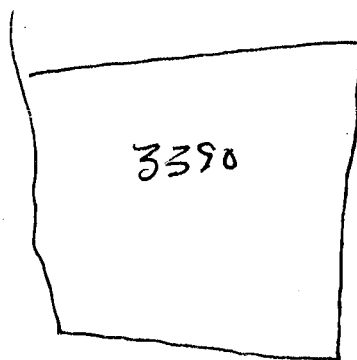
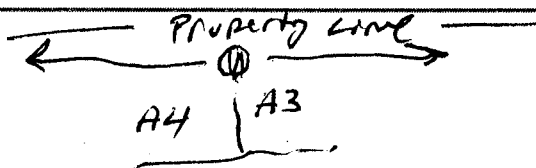
QAQC Samples Collected: M-10 @ A6

oaks +
maples

Notes:

Yellow garden Box included as part of B1
old storm sewer drain west side of A3-A4
Forest beyond is a mix of oak, maple, poplar
and buckthorn

Add Photo



Z

F:\GIS\Client\Grc\20\Projects\Figure 2 Residential.mxd



Legend

— Roads

Property Boundaries

Sampled Property

Grid Sampling

3344 Highway 149 (Wenck)¹

Lead Concentration (mg/kg)

0-300

300-700

700-800

800-900

900-1000

1000+

800-900

900-1000

1000+

800-900

900-1000

1000+

FIGURE 1

SAMPLING LOCATIONS AND RESULTS
3394 Rolling Hills Drive
Eagan, Minnesota

LANDMARK ENVIRONMENTAL, LLC



LANDMARK
Environmental

Field Report

Enter Specific Address Here

3394

Date: 7/17/2020

Reported by: JEL

Time Onsite: 13:00 - 1500

Weather Conditions: Hot Humid

Individual Property Grid Sampling Summary

Number of Grids Sampled 1/2 on 7/17 second half on 7/20

Description of Vegetation weedy lawn

QAQC Samples Collected To be done

Notes:

M-10 ~~B-10~~ B1

Mature forest beyond + Lower Buckthorn

Adult children are present

Second half completed on 7/20/20

B1 - B4 Plus MASK @ B-4

Add Photo

some dark soils with possible

Ash A/B-1 -

maybe mafic

Photo Log
Residential Yard Sampling, Eagan, MN
July 13 - 21, 2020



Narrow garden and steep grade at 638



Dense vegetation at 658 from the backyard of 654



Rock retaining wall at 642



Dense vegetation at 630 from 634



Dense vegetation at 658



Dense vegetation at 630 from the southwest corner of the house

Photo Log
Residential Yard Sampling, Eagan, MN
July 13 - 21, 2020



Half of 634 backyard facing at 638



Backyard of 654



Backyard 650 with patio and shed close to house



Backyard of 646



Backyard of 626 with patio and stairs shown

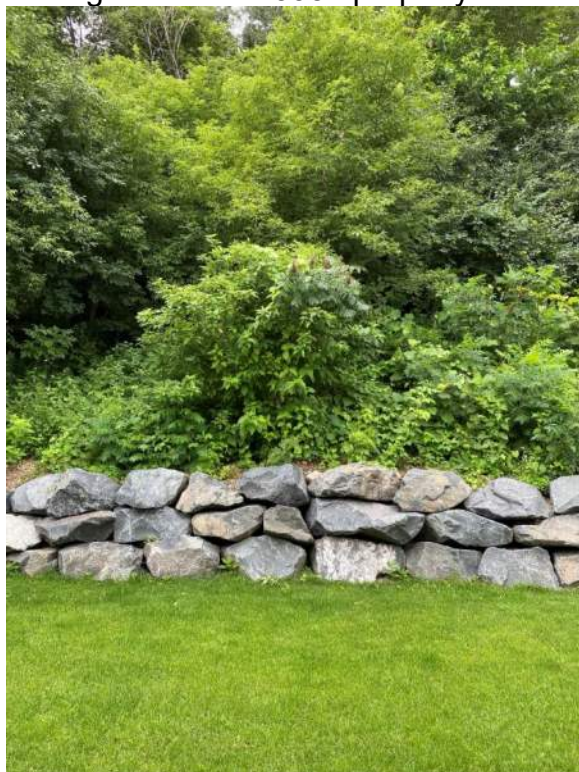
Photo Log
Residential Yard Sampling, Eagan, MN
July 13 - 21, 2020



Managed forest at 3382 property



Brick patio at 3386 B2



Retaining wall at 3386 with overgrown woods behind wall



Vast back yard at 3390 with garden box

Photo Log
Residential Yard Sampling, Eagan, MN
July 13 - 21, 2020



Backyard of 3394

Appendix C

Laboratory Analytical Reports

July 22, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525372

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525372001	626-A1	Solid	07/17/20 10:44	07/17/20 15:43
10525372002	626-A2	Solid	07/17/20 10:58	07/17/20 15:43
10525372003	626-A3	Solid	07/17/20 11:15	07/17/20 15:43
10525372004	626-A/B1	Solid	07/17/20 12:05	07/17/20 15:43
10525372005	626-B1	Solid	07/17/20 11:29	07/17/20 15:43
10525372006	626-B3	Solid	07/17/20 11:45	07/17/20 15:43
10525372007	626-A1-NW	Solid	07/17/20 10:34	07/17/20 15:43
10525372008	626-A1-NE	Solid	07/17/20 10:35	07/17/20 15:43
10525372009	626-A1-SW	Solid	07/17/20 10:39	07/17/20 15:43
10525372010	626-A1-SE	Solid	07/17/20 10:41	07/17/20 15:43
10525372011	626-A2-NW	Solid	07/17/20 10:52	07/17/20 15:43
10525372012	626-A2-NE	Solid	07/17/20 10:52	07/17/20 15:43
10525372013	626-A2-SW	Solid	07/17/20 10:53	07/17/20 15:43
10525372014	626-A2-SE	Solid	07/17/20 10:57	07/17/20 15:43
10525372015	626-A3-NW	Solid	07/17/20 11:04	07/17/20 15:43
10525372016	626-A3-NE	Solid	07/17/20 11:05	07/17/20 15:43
10525372017	626-A3-SW	Solid	07/17/20 11:07	07/17/20 15:43
10525372018	626-A3-SE	Solid	07/17/20 11:12	07/17/20 15:43
10525372019	626-A/B1-NW	Solid	07/17/20 11:57	07/17/20 15:43
10525372020	626-A/B1-NE	Solid	07/17/20 11:59	07/17/20 15:43
10525372021	626-A/B1-SW	Solid	07/17/20 12:04	07/17/20 15:43
10525372022	626-A/B1-SE	Solid	07/17/20 12:03	07/17/20 15:43
10525372023	626-B1-NW	Solid	07/17/20 11:21	07/17/20 15:43
10525372024	626-B1-NE	Solid	07/17/20 11:22	07/17/20 15:43
10525372025	626-B1-SW	Solid	07/17/20 11:23	07/17/20 15:43
10525372026	626-B1-SE	Solid	07/17/20 11:28	07/17/20 15:43
10525372027	626-B3-NW	Solid	07/17/20 11:36	07/17/20 15:43
10525372028	626-B3-NE	Solid	07/17/20 11:39	07/17/20 15:43
10525372029	626-B3-SW	Solid	07/17/20 11:43	07/17/20 15:43
10525372030	626-B3-SE	Solid	07/17/20 11:44	07/17/20 15:43
10525372031	626-A1-0.5-1	Solid	07/17/20 10:45	07/17/20 15:43
10525372032	626-A1-1-1.5	Solid	07/17/20 10:45	07/17/20 15:43
10525372033	626-A2-0.5-1	Solid	07/17/20 11:06	07/17/20 15:43
10525372034	626-A2-1-1.5	Solid	07/17/20 11:06	07/17/20 15:43
10525372035	626-A3-0.5-1	Solid	07/17/20 11:16	07/17/20 15:43
10525372036	626-A3-1-1.5	Solid	07/17/20 11:16	07/17/20 15:43
10525372037	626-A/B1-0.5-1	Solid	07/17/20 12:08	07/17/20 15:43

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525372038	626-A/B1-1-1.5	Solid	07/17/20 12:10	07/17/20 15:43
10525372039	626-B1-0.5-1	Solid	07/17/20 11:32	07/17/20 15:43
10525372040	626-B1-1-1.5	Solid	07/17/20 11:32	07/17/20 15:43
10525372041	626-B3-0.5-1	Solid	07/17/20 11:46	07/17/20 15:43
10525372042	626-B3-1-1.5	Solid	07/17/20 11:46	07/17/20 15:43
10525372043	626-M8	Solid	07/17/20 10:44	07/17/20 15:43

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525372001	626-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525372002	626-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525372003	626-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525372004	626-A/B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525372005	626-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525372006	626-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525372043	626-M8	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-A1 **Lab ID: 10525372001** Collected: 07/17/20 10:44 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.1	mg/kg	0.53	0.12	1	07/21/20 09:26	07/21/20 16:02	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.5	%	0.10	0.10	1		07/20/20 14:21		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-A2 **Lab ID: 10525372002** Collected: 07/17/20 10:58 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	57.7	mg/kg	0.56	0.13	1	07/21/20 09:26	07/21/20 16:04	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.9	%	0.10	0.10	1		07/20/20 14:21		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-A3 **Lab ID: 10525372003** Collected: 07/17/20 11:15 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	35.9	mg/kg	0.55	0.12	1	07/21/20 09:26	07/21/20 16:06	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.7	%	0.10	0.10	1		07/20/20 14:21		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-A/B1 **Lab ID: 10525372004** Collected: 07/17/20 12:05 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	26.4	mg/kg	0.56	0.13	1	07/21/20 09:26	07/21/20 16:07	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.8	%	0.10	0.10	1		07/20/20 14:21		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-B1 **Lab ID: 10525372005** Collected: 07/17/20 11:29 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	23.3	mg/kg	0.55	0.13	1	07/21/20 09:26	07/21/20 16:12	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	11.4	%	0.10	0.10	1		07/20/20 14:21		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-B3 **Lab ID: 10525372006** Collected: 07/17/20 11:45 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.5	mg/kg	0.56	0.13	1	07/21/20 09:26	07/21/20 16:14	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.9	%	0.10	0.10	1		07/20/20 14:22		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Sample: 626-M8 **Lab ID: 10525372043** Collected: 07/17/20 10:44 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	19.1	mg/kg	0.53	0.12	1	07/21/20 09:26	07/21/20 16:16	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.4	%	0.10	0.10	1		07/20/20 14:22		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

QC Batch:	687989	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10525372001, 10525372002, 10525372003, 10525372004, 10525372005, 10525372006, 10525372043			

METHOD BLANK:	3679646	Matrix:	Solid
Associated Lab Samples: 10525372001, 10525372002, 10525372003, 10525372004, 10525372005, 10525372006, 10525372043			

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/21/20 15:27	

LABORATORY CONTROL SAMPLE: 3679647						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.7	47.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3679648 3679649												
Parameter	Units	10525371001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	50.7	56.1	55.1	96.3	95.1	81	81	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

QC Batch:	687935	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525372001, 10525372002, 10525372003, 10525372004, 10525372005, 10525372006, 10525372043

SAMPLE DUPLICATE: 3679162

Parameter	Units	10525371001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	13.7	4	30	N2

SAMPLE DUPLICATE: 3679163

Parameter	Units	10524408006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.4	39.2	0	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525372

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525372

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525372

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525372001	626-A1	EPA 3050B	687989	EPA 6010D	688183
10525372002	626-A2	EPA 3050B	687989	EPA 6010D	688183
10525372003	626-A3	EPA 3050B	687989	EPA 6010D	688183
10525372004	626-A/B1	EPA 3050B	687989	EPA 6010D	688183
10525372005	626-B1	EPA 3050B	687989	EPA 6010D	688183
10525372006	626-B3	EPA 3050B	687989	EPA 6010D	688183
10525372043	626-M8	EPA 3050B	687989	EPA 6010D	688183
10525372001	626-A1	ASTM D2974	687935		
10525372002	626-A2	ASTM D2974	687935		
10525372003	626-A3	ASTM D2974	687935		
10525372004	626-A/B1	ASTM D2974	687935		
10525372005	626-B1	ASTM D2974	687935		
10525372006	626-B3	ASTM D2974	687935		
10525372043	626-M8	ASTM D2974	687935		

REPORT OF LABORATORY ANALYSIS

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10525372

Minnesota Pollution Control Agency	MPCA Chain-of-Custody Form revision 2017.03.28 * indicates a required field								Work Order Number: COC Type: Standard												
	PROJECT/CLIENT INFO								Turnaround Time: Rush 3 day COC ID:												
	Facility Code:* MND006148092								LABORATORY												
	Project Name:* 3344 Highway 149 Adjacent Property, Eagan								Lab Name: Pace Analytical - Minneapolis												
	Project Manager: michael.ginsbach@state.mn.us, svanduyin@landmarkenv.com, angela.fogarty@gopherresource.com								Address: 1700 Elm St SE												
	Potential Hazard?	N	If yes, add information to Sampler Comments field								EPA Lab ID:* MN00064	Minneapolis, MN 55414									
SAMPLE DETAILS										ANALYSIS REQUESTED											
MIN Location Identifier*		FIELD NAME		SAMPLE TYPE*	SAMPLE DATE* (mm/dd/yyyy)	START TIME* (hh:mm)	DEPTH ft	UNITS (m or ft.)	SAMPLING METHOD*	END DATE (mm/dd/yyyy)	END TIME (hh:mm)	COMPLETE ONLY IF METHOD IS CT, CF, D-T, OR D-F	LAB MATRIX* SD=Soil-Surf SO=Soil-Subf	SAMPLER COMMENTS (filter volume, special handling, etc.)	# OF CONT	ANALYSIS* PRESERV.	FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas				
626-A1		Sample	7/1/2020	10:44	0	0.5	ft	CO	CO				SD	Soil-Surf		1	Lead, 6010D	X-HO			
626-A2		Sample	7/1/2020	10:58	0	0.5	ft	CO	CO				SD	Soil-Surf		1					
626-A3		Sample	7/1/2020	11:15	0	0.5	ft	CO	CO				SD	Soil-Surf		1					
626-A/B1		Sample	7/1/2020	11:05	0	0.5	ft	CO	CO				SD	Soil-Surf		1					
626-B1		Sample	7/1/2020	11:29	0	0.5	ft	CO	CO				SD	Soil-Surf		1					
626-B2		Sample	7/1/2020	10:44	0	0.5	ft	CO	CO				SD	Soil-Surf		1					
626-B3		Sample	7/1/2020	11:45	0	0.5	ft	CO	CO				SD	Soil-Surf		1					
626-MB			7/1/2020	10:44																	
Sampler's Name:* Eric Gabrielson										Billing Organization: Landmark Environmental, LLC										Acc#: 2000	
Sampler's Signature:*										Address: 2042 W. 98th St., Bloomington, MN 55431											
Sampler's Organization:										Courier Name:										Tracking#:	
Receiving Comments:										Date/Time										Accepted By/Affiliation	
Relinquished By/Affiliation										7/17/20										Oliver B / Pace	
(Sampler)										15:43											
Approved by: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (email shown above)																					

Principals/Managers: Michael Ginsbach, Sherry Van Durn, Angela Eosarty (emails shown above)

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017.0228				Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 2 of 6	
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: <u>2-3 days</u>		COC ID:		FOR LAB USE ONLY	
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		LABORATORY			
Project Manager: * michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PR08104				Address: 1700 Elm St SE					
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN000064		Minneapolis, MN 55414		Lab Work Order Sicker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	G-Grab sample	DW=Drinking Water	OT=Other	TS=Tissue	Wtr-Ground=Groundwater	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas	
QC-FB-Field Blank Sample	CT=Composite, time-paced w/AS	NW=Nonpotable Water	SD=Soil/Solid	AR=Air							
QC-FB-Trip Blank Sample	D-T=Discrete, time-paced w/AS										
QC-FB-Equipment Blank	D-F=Discrete, flow-paced w/AS										
Treated-Mid-Treatment system sample	SW-GAS=Gas Sampling										
Treated-Post-Treatment system sample	Unknown=Unknown										
SAMPLE DETAILS		Depth		Sampling Method*		End Date (mm/dd/yyyy)		End Time (hh:mm)		Lab Matrix*	
Field Name		Sample Type*		Start Date* (mm/dd/yyyy)		Start Time* (hh:mm)		End Date (mm/dd/yyyy)		End Time (hh:mm)	
626-A1-NW	Sample	7/1/2020	10:34	0	0.5	ft	G			SD	Soil-Surf
626-A1-NE	Sample	7/1/2020	10:35	0	0.5	ft	G			SD	Soil-Surf
626-A1-SW	Sample	7/1/2020	10:39	0	0.5	ft	G			SD	Soil-Surf
626-A1-SE	Sample	7/1/2020	10:41	0	0.5	ft	G			SD	Soil-Surf
626-A2-NW	Sample	7/1/2020	10:52	0	0.5	ft	G			SD	Soil-Surf
626-A2-NE	Sample	7/1/2020	10:54	0	0.5	ft	G			SD	Soil-Surf
626-A2-SW	Sample	7/1/2020	10:53	0	0.5	ft	G			SD	Soil-Surf
626-A2-SE	Sample	7/1/2020	10:51	0	0.5	ft	G			SD	Soil-Surf
626-A3-NW	Sample	7/1/2020	11:04	0	0.5	ft	G			SD	Soil-Surf
626-A3-NE	Sample	7/1/2020	11:05	0	0.5	ft	G			SD	Soil-Surf
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acct#: 20093.01			
Sampler's Signature:		Courier Name: Landmark Environmental, LLC		Tracking#:							
Receiving Comments:		Date/Time: 7/17/20		Accepted By/Affiliation:		Date/Time: 7-17-20					
Relinquished By/Affiliation:		Date/Time: 15:47		Accepted By/Affiliation:		Date/Time:					

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 3 of 16									
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: <u>20093.01</u>		COC ID: <u>LABORATORY</u>		FOR LAB USE ONLY									
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Lab Work Order Sticker									
Project Manager: michael.ginsbach@state.mn.us, svandun@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Minneapolis, MN 55414		EPA Lab ID: * MN00064											
Potential Hazard? N		If yes, add information to Sampler Comments field																	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		Lab Sample No. #									
QC-Routine Sample	G-Grab sample	Time-based w/AS	Drinking Water	Drinking Water	Wtr-Ground=Groundwater	Wtr-Surf=Surface Water	Wtr-Drink=Drinking Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas								
QC-FB=Field Blank Sample	CT-Composite	Time-based w/AS	NW=Non-potable Water	SD=Soil Solid	BI=Biological Material	OT=Other	TS=Tissue												
QC-FB=Field Replicate Sample	CF=Composite	Time-based w/AS	SD=Soil Solid	AR=Air															
QC-TB=Trip Blank Sample	D-T=Discrete	Time-based w/AS																	
QC-FB=Equipment Blank	D-F=Discrete	Time-based w/AS																	
Treated-Mid-Treatment system sample	SW-GAS=Gas Sampling	Unknown-Unknown																	
Treated-Pose-Treatment system sample	Unknown-Unknown																		
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth	End	Start	End	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix* Matrix* AIS	Field Matrix* Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESEV.	Lab Sample No. #	
626-A3-SW		Sample	7/12/2020	11:07	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	017	
626-A3-SE		Sample	7/12/2020	11:12	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	018	
626-A/B1-NW		Sample	7/12/2020	11:13	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	019	
626-A/B1-NE		Sample	7/12/2020	11:14	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	020	
626-A/B1-SW		Sample	7/12/2020	11:14	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	021	
626-A/B1-SE		Sample	7/12/2020	11:15	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	022	
626-B1-NW		Sample	7/12/2020	11:21	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	123	
626-B1-NE		Sample	7/12/2020	11:22	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	124	
626-B1-SW		Sample	7/12/2020	11:23	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	125	
626-B1-SE		Sample	7/12/2020	11:23	0.5 ft	0	0	0.5 ft	G			SD	Soil-Surf	Sample hold	1	1	1	126	
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01													
Sampler's Signature: *				Address: 2042 W. 98th St, Bloomington, MN 55431															
Sampler's Organization: Landmark Environmental, LLC				Courier Name:															
Receiving Comments:				Tracking#:															
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time													
(Sampler)		7/17/20		Chae R/pce		7-17-20													
		13:42																	

Project Managers: Michael Ginsbach, Sherry Van Duren, Angela Fogarty (emails shown above)

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017.03.28				Work Order Number: 20093.01		COC Type: Standard		Page: 4 of 6								
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: 2-3 days		COC ID:		FOR LAB USE ONLY								
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		COC ID:		Lab Work Order Sticker								
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Address: 1700 Elm St SE		COC ID:		Lab Work Order Sticker								
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064		COC ID:		Lab Work Order Sticker								
SAMPLE DETAILS																		
MIN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth	End	Start	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Lab Matrix* AIS	Field Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED	
																	Wtr-Ground=Groundwater	Wtr-Surf=Surface Water
626-B2-NW		Sample	7/1/2020		0.5 ft	0	0			G	SD	Soil-Surf	sample hold					1
626-B2-NE		Sample	7/1/2020		0.5 ft	0	0			G	SD	Soil-Surf	sample hold					2
626-B2-SW		Sample	7/1/2020		0.5 ft	0	0			G	SD	Soil-Surf	sample hold					3
626-B2-SE		Sample	7/1/2020		0.5 ft	0	0			G	SD	Soil-Surf	sample hold					4
626-B3-NW		Sample	7/1/2020	11:36	0.5 ft	0	0			G	SD	Soil-Surf	sample hold					5
626-B3-NE		Sample	7/1/2020	11:39	0.5 ft	0	0			G	SD	Soil-Surf	sample hold					6
626-B3-SW		Sample	7/1/2020	11:43	0.5 ft	0	0			G	SD	Soil-Surf	sample hold					7
626-B3-SE		Sample	7/1/2020	11:44	0.5 ft	0	0			G	SD	Soil-Surf	sample hold					8
626-A1-0.5-1		Sample	7/1/2020	10:45	1 ft	0.5	0.5			G	SD	Soil-Sub	sample hold					9
626-A1-1-1.5		Sample	7/1/2020	10:45	1.5 ft	1	1			G	SD	Soil-Sub	sample hold					10
Sampler's Name: Eric Gabrielson Phone#: 952-240-8935 Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St, Bloomington, MN 55431 Courier Name: Landmark Environmental, LLC Tracking#:																		
Sampler's Signature: Sampler's Organization: Landmark Environmental, LLC																		
Receiving Comments:																		
Relinquished By/Affiliation: Date/Time: 7-17-20 Accepted By/Affiliation: Date/Time: 7-17-20 15:12																		

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 5 of 6	
Facility Code:*		PROJECT/CLIENT INFO				Turnaround Time: <u>2-3 days</u>		COC ID:		FOR LAB USE ONLY	
Project Name:*		LABORATORY				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Lab Work Order Sticker	
Project Manager:		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Minneapolis, MN 55414	
Potential Hazard?		If yes, add information to Sampler Comments field				EPA Lab ID: MN00064		COC ID:		Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		Lab Sample No.	
Sample-Routine Sample	G-Grab sample	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water	W-Drinking Water
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water	NW-Nonpotable Water
QC-FB-Field Replicate Sample	CF-Composite w/AS	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid	SD-Soil/Solid
QC-TB-Trip Blank Sample	DT-Discrete time-paced w/AS	AR-Air	AR-Air	AR-Air	AR-Air	AR-Air	AR-Air	AR-Air	AR-Air	AR-Air	AR-Air
QC-TB-Trip Replicate Sample	DF-Discrete flow-paced w/AS										
QC-EB-Equipment Blank	SW-GAS=On-Sampling										
Treated-Mid-Treatment system sample	Unknown-Unknown										
Treated-Pot-Treatment system sample											
MN Location Identifier*		Sample Type*		Start Date* (mm/dd/yyyy)		Start Time* (hh:mm)		Depth (m or ft)		Sampling Method*	
626-A2-0.5-1	11:00	Sample	7/1/2020	11:00	0.5	1	ft	G	SD	Soil-Sub	sample hold
626-A2-1.1-5	11:00	Sample	7/1/2020	11:00	1	1.5	ft	G	SD	Soil-Sub	sample hold
626-A3-0.5-1		Sample	7/1/2020	11:16	0.5	1	ft	G	SD	Soil-Sub	sample hold
626-A3-1.1-5		Sample	7/1/2020	11:16	1	1.5	ft	G	SD	Soil-Sub	sample hold
626-A/B1-0.5-1		Sample	7/1/2020	12:58	0.5	1	ft	G	SD	Soil-Sub	sample hold
626-A/B1-1.1-5		Sample	7/1/2020	12:10	1	1.5	ft	G	SD	Soil-Sub	sample hold
626-B1-0.5-1		Sample	7/1/2020	11:32	0.5	1	ft	G	SD	Soil-Sub	sample hold
626-B1-1.1-5		Sample	7/1/2020	11:32	1	1.5	ft	G	SD	Soil-Sub	sample hold
626-B2-0.5-1		Sample	7/1/2020		0.5	1	ft	G	SD	Soil-Sub	sample hold
626-B2-1.1-5		Sample	7/1/2020		1	1.5	ft	G	SD	Soil-Sub	sample hold
Sampler's Name:*		Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01			
Sampler's Signature:*						Address: 2042 W. 98th St, Bloomington, MN 55431					
Sampler's Organization:*		Landmark Environmental, LLC				Courier Name:		Tracking#:			
Receiving Comments:											
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time					
(Sampler)		7/17/20		Charles D / Pace		7-17-20					
Project Managers: Michael Ginsbach, Sherry Van Damm, Angela Fogarty (emails shown above)											

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Page 1 of 1 Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>MPCA</u>	Project #: WO# : 10525372
		PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client
☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: box Temp Blank? ☐ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
☐ T4(0254) ☒ T5(0489)

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>33.3, 3.9, 8.9</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>true</u> Cooler Temp Corrected w/temp blank: <u>33.3, 3.9, 8.9</u> °C	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: 7/17/20 JN

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	
Containers Intact? ☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests? <u>7/17/20</u> ☒ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception
	Chlorine? ☐ Yes ☐ No pH Paper Lot# ☐
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Anna Asp Date: 7/20/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: chwo/TK Page 23 of 24

	Document Name:	Document Revised: 04Jun2020
	Sample Condition Upon Receipt (SCUR) Exception Form	Page 1 of 1
	Document No.: ENV-FRM-MIN4-0142 Rev.01	Pace Analytical Services - Minneapolis

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☐ No															
			If yes, indicate who was contacted/date/time. If no, indicate reason why.															
			Multiple Cooler Project? ☐ Yes ☐ No If you answered yes, fill out information to the left.															
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>6.8</td> <td>X</td> <td rowspan="4">8.9</td> </tr> <tr> <td>7.5</td> <td>-</td> </tr> <tr> <td>10.6</td> <td>5</td> </tr> <tr> <td>10.6</td> <td>5</td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	6.8	X	8.9	7.5	-	10.6	5	10.6	5
No Temp Blank																		
Read Temp	Corrected Temp	Average Temp																
6.8	X	8.9																
7.5	-																	
10.6	5																	
10.6	5																	

Tracking Number/Temperature

Issue Type:	Container Type	# of Containers
Sample ID	Type	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 23, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525504

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525504001	630-C1	Solid	07/20/20 10:04	07/20/20 16:37
10525504002	630-C2	Solid	07/20/20 10:15	07/20/20 16:37
10525504003	630-C3	Solid	07/20/20 10:31	07/20/20 16:37
10525504004	630-C4	Solid	07/20/20 10:41	07/20/20 16:37
10525504005	M-9	Solid	07/20/20 10:15	07/20/20 16:37
10525504006	630-C1-NW	Solid	07/20/20 09:55	07/20/20 16:37
10525504007	630-C1-NE	Solid	07/20/20 09:57	07/20/20 16:37
10525504008	630-C1-SW	Solid	07/20/20 10:03	07/20/20 16:37
10525504009	630-C1-SE	Solid	07/20/20 10:00	07/20/20 16:37
10525504010	630-C2-NW	Solid	07/20/20 10:10	07/20/20 16:37
10525504011	630-C2-NE	Solid	07/20/20 10:11	07/20/20 16:37
10525504012	630-C2-SW	Solid	07/20/20 10:15	07/20/20 16:37
10525504013	630-C2-SE	Solid	07/20/20 10:14	07/20/20 16:37
10525504014	630-C3-NW	Solid	07/20/20 10:23	07/20/20 16:37
10525504015	630-C3-NE	Solid	07/20/20 10:25	07/20/20 16:37
10525504016	630-C3-SW	Solid	07/20/20 10:30	07/20/20 16:37
10525504017	630-C3-SE	Solid	07/20/20 10:27	07/20/20 16:37
10525504018	630-C4-NW	Solid	07/20/20 10:36	07/20/20 16:37
10525504019	630-C4-NE	Solid	07/20/20 10:39	07/20/20 16:37
10525504020	630-C4-SW	Solid	07/20/20 10:40	07/20/20 16:37
10525504021	630-C4-SE	Solid	07/20/20 10:38	07/20/20 16:37
10525504022	630-C1-0.5-1	Solid	07/20/20 10:06	07/20/20 16:37
10525504023	630-C1-1-1.5	Solid	07/20/20 10:08	07/20/20 16:37
10525504024	630-C2-0.5-1	Solid	07/20/20 10:16	07/20/20 16:37
10525504025	630-C2-1-1.5	Solid	07/20/20 10:18	07/20/20 16:37
10525504026	630-C3-0.5-1	Solid	07/20/20 10:33	07/20/20 16:37
10525504027	630-C3-1-1.5	Solid	07/20/20 10:35	07/20/20 16:37
10525504028	630-C4-0.5-1	Solid	07/20/20 10:43	07/20/20 16:37
10525504029	630-C4-1-1.5	Solid	07/20/20 10:44	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525504001	630-C1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525504002	630-C2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525504003	630-C3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525504004	630-C4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525504005	M-9	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Sample: 630-C1 **Lab ID: 10525504001** Collected: 07/20/20 10:04 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.0	mg/kg	0.57	0.13	1	07/22/20 10:30	07/22/20 18:04	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.0	%	0.10	0.10	1		07/21/20 15:26		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Sample: 630-C2 **Lab ID: 10525504002** Collected: 07/20/20 10:15 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	10.5	mg/kg	0.53	0.12	1	07/22/20 10:30	07/22/20 18:06	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.1	%	0.10	0.10	1		07/21/20 15:26		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Sample: 630-C3 **Lab ID: 10525504003** Collected: 07/20/20 10:31 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	9.0	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 18:07	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	11.8	%	0.10	0.10	1		07/22/20 10:30		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Sample: 630-C4 **Lab ID: 10525504004** Collected: 07/20/20 10:41 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	7.5	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 18:09	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	11.8	%	0.10	0.10	1		07/22/20 10:30		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Sample: M-9 **Lab ID: 10525504005** Collected: 07/20/20 10:15 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.7	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 18:11	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.2	%	0.10	0.10	1		07/22/20 10:30		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

QC Batch: 688260

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525504001, 10525504002, 10525504003, 10525504004, 10525504005

METHOD BLANK: 3681509

Matrix: Solid

Associated Lab Samples: 10525504001, 10525504002, 10525504003, 10525504004, 10525504005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.47	0.47	0.11	07/22/20 17:42	

LABORATORY CONTROL SAMPLE: 3681510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.3	46.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681511 3681512

Parameter	Units	10525371036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	38.2	62.9	65.9	97.2	104	94	100	75-125	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

QC Batch: 688157

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525504001, 10525504002

SAMPLE DUPLICATE: 3680268

Parameter	Units	10525371036 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.0	20.5	27	30	N2

SAMPLE DUPLICATE: 3680269

Parameter	Units	10525504002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.1	13.1	8	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

QC Batch: 688288

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525504003, 10525504004, 10525504005

SAMPLE DUPLICATE: 3681574

Parameter	Units	10525504003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.8	13.7	15	30	N2

SAMPLE DUPLICATE: 3681575

Parameter	Units	10525237002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	15.4	7	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525504

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525504

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525504

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525504001	630-C1	EPA 3050B	688260	EPA 6010D	688507
10525504002	630-C2	EPA 3050B	688260	EPA 6010D	688507
10525504003	630-C3	EPA 3050B	688260	EPA 6010D	688507
10525504004	630-C4	EPA 3050B	688260	EPA 6010D	688507
10525504005	M-9	EPA 3050B	688260	EPA 6010D	688507
10525504001	630-C1	ASTM D2974	688157		
10525504002	630-C2	ASTM D2974	688157		
10525504003	630-C3	ASTM D2974	688288		
10525504004	630-C4	ASTM D2974	688288		
10525504005	M-9	ASTM D2974	688288		

REPORT OF LABORATORY ANALYSIS

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10525504

 Minnesota Pollution Control Agency	MPCA Chain-of-Custody Form revision 2017.03.28 * indicates a required field										Work Order Number: Turnaround Time: Rush 3 day	COC Type: Standard COC ID:	Page:		
	PROJECT/CLIENT INFO										LABORATORY				
	Facility Code: * MND006148092 Project Name: * 3344 Highway 149 Adjacent Property, Eagan Project Manager: michael.ginsbach@state.mn.us, svanduyun@landmarkenv.com, angela.fogarty@gopherresources.com Potential Hazard? N										Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414 EPA Lab ID: * MN00064				
SAMPLE DETAILS															
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	End Date* (mm/dd/yyyy)	Sampling Method*	Depth (m or ft)	LAB MATRICES		FIELD MATRICES		SAMPLER COMMENTS (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED
							Start Time* (hr:min)	End Time (hr:min)	BU=Biological Material OT=Other TS=Tissue	Wtr-Ground=Groundwater Wtr-Surf=Surface Water Wtr-Drnk=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas					
630-01		Sample	7/2/2020 10:04	7/2/2020 10:15	CO	0.5 ft	Start	End	Units (m or ft)	Lab Matrix* SD	Field Matrix* Soil-Surf				
630-02		Sample	7/2/2020 10:15	7/2/2020 10:21	CO	0.5 ft				SD	Soil-Surf				
630-03		Sample	7/2/2020 10:21	7/2/2020 10:26	CO	0.5 ft				SD	Soil-Surf				
630-04		Sample	7/2/2020 10:26	7/2/2020 10:31	CO	0.5 ft				SD	Soil-Surf				
630-05		Sample	7/2/2020 10:31	7/2/2020 10:36	CO	0.5 ft				SD	Soil-Surf				
630-06		Sample	7/2/2020 10:36	7/2/2020 10:41	CO	0.5 ft				SD	Soil-Surf				
630-07		Sample	7/2/2020 10:41	7/2/2020 10:46	CO	0.5 ft				SD	Soil-Surf				
630-08		Sample	7/2/2020 10:46	7/2/2020 10:51	CO	0.5 ft				SD	Soil-Surf				
630-09		Sample	7/2/2020 10:51	7/2/2020 10:56	CO	0.5 ft				SD	Soil-Surf				
M-9		Sample	7/2/2020 10:56	7/2/2020 11:01	CO	0.5 ft				SD	S-S				
Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Phone#: 952-240-8935 Courier Name:													Tracking#:		
Receiving Comments:													Date/Time: 7/20/2016 16:32 Accepted By/Affiliation: <i>Cheng...</i>		
Relinquished By/Affiliation: <i>hmg</i>													Date/Time: 7/25/17 Accepted By/Affiliation: <i>WML Red</i>		

12.7
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[illegible]

12.7 1.3
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Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form version 2017.0328

* indicates a required field

Work Order Number: **COC Type: Standard** Page: **3 of 6**

Turnaround Time: **Rush 3 days** **COC ID:**

Facility Code: **MND006148092**

Project Name: **3344 Highway 149 Adjacent Property, Eagan**

Project Manager: **michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N** If yes, add information to Sampler Comments field

Program Code (MDH Lab Only):

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: **MN00064**

LABORATORY

ANALYSIS REQUESTED

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Time* (hh:mm)	Depth	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES Wt-Ground=Groundwater Wt-Surf=Surface Water Wt-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas	Lab Sample No.	#	
																					Start
630-03-SW		Sample	7/20/2020	10:30		0	0.5	ft	G			SD	Soil-Surf								1
630-03-SE		Sample	7/20/2020	10:27		0	0.5	ft	G			SD	Soil-Surf								2
630-04-NW		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								3
630-04-NE		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								4
630-04-SW		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								5
630-04-SE		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								6
630-BL-NW		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								7
630-B1-NE		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								8
630-B1-SW		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								9
630-B1-SE		Sample	7/20/2020			0	0.5	ft	G			SD	Soil-Surf								10

LABORATORY

ANALYSIS REQUESTED

Billing Organization: Landmark Environmental, LLC

Address: 2042 W. 98th St., Bloomington, MN 55431

Phone#: 952-240-8935

Courier Name:

Tracking#:

Relinquished By/Affiliation

Accepted By/Affiliation

Date/Time

Relinquished By/Affiliation

Accepted By/Affiliation

Date/Time

Relinquished By/Affiliation

Accepted By/Affiliation

Date/Time

Project Managers: Michael Ginsbach, Sherry Van Damm, Angela Fogarty (emails shown above)

12.7
7.6
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Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form
* Indicates a required field

Work Order Number: 20093.01 COC Type: Standard Page: 4 of 6

Facility Code: * MND006148092

Project Name: * 3344 Highway 149 Adjacent Property, Eagan

Project Manager: michael.ginsbach@state.mn.us, svanduynd@landmarkenv.com, angela.fogarty@gopherresource.com

Potential Hazard? N If yes, add information to Sampler Comments field

LABORATORY

Lab Name: Pace Analytical - Minneapolis

Address: 1700 Elm St SE

Minneapolis, MN 55414

EPA Lab ID: * MN000064

Turnaround Time: Real-time

COC ID:

FOR LAB USE ONLY

Lab Work Order Sticker

Holder

Lead, 6010D

Billing Organization: Landmark Environmental, LLC

Address: 2042 W. 98th St, Bloomington, MN 55431

Courier Name:

Phone #: 952-240-8935

Acc #: 20093.01

Receiving Comments:

Relinquished By/Affiliation

Accepted By/Affiliation

Date/Time

7/21/20 16:37

7/20/20 16:37

12.7

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MPCA Chain-of-Custody Form

Minnesota Pollution Control Agency

Version 2017.0378

* indicates a required field

Work Order Number: Turnaround Time: Rush 3 day

COC Type: Standard

COC ID:

Page: 6 of 6

PROJECT/CLIENT INFO

Facility Code: * MND0006148092

Program Code (MDH Lab Only):

Lab Name: Pace Analytical - Minneapolis

Address: 1700 Elm St SE

Minneapolis, MN 55414

EPA Lab ID: * MN00064

Project Task Code: * PRJ08104

Project Manager: michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com

Potential Hazard? N

If yes, add information to Sampler Comments field

LABORATORY

Lab Name: Pace Analytical - Minneapolis

Address: 1700 Elm St SE

Minneapolis, MN 55414

EPA Lab ID: * MN00064

FOR LAB USE ONLY

Lab Work Order Sticker

SAMPLE TYPES	LAB MATRICES	SAMPLING METHODS	Depth	Start Time* (mm/dd/yyyy)	End Time (mm/dd/yyyy)	Sampling Method*	End Date (mm/dd/yyyy)	Lab Matrix* (mm/dd/yyyy)	Field Matrix* (mm/dd/yyyy)	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES	ANALYSIS REQUESTED	Lab Sample No.	#
Sample-Routine Sample	G-Grab sample	CT-Composite, time-paced w/AS	0.5	1	ft	G		SD	Soil-Sub	sample hold	1	Lead, 6010D		Wt-Ground-Groundwater			1
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	1	1.5	ft	G		SD	Soil-Sub	sample hold	1			Wt-Surf-Surface Water			2
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	0.5	1	ft	G		SD	Soil-Sub	sample hold	1			Wt-Drain-Drinking Water			3
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	1	1.5	ft	G		SD	Soil-Sub	sample hold	1			QC-BLANK-Artificial Blank Water			4
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	0.5	1	ft	G		SD	Soil-Sub	sample hold	1			Leachate-Leachate Sample			5
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	1	1.5	ft	G		SD	Soil-Sub	sample hold	1			Air-Indoor-Indoor Air			6
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	0.5	1	ft	G		SD	Soil-Sub	sample hold	1			Gas-Soil-Soil Gas			7
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	1	1.5	ft	G		SD	Soil-Sub	sample hold	1						8
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	0.5	1	ft	G		SD	Soil-Sub	sample hold	1						9
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	1	1.5	ft	G		SD	Soil-Sub	sample hold	1						10

Sampler's Name: * Eric Gabrielson Phone#: 952-240-8935 Billing Organization: Landmark Environmental, LLC Acct#: 20093.01

Sampler's Signature: * Address: 2042 W. 98th St., Bloomington, MN 55431

Sampler's Organization: Landmark Environmental, LLC Courier Name: Tracking#:

Receiving Comments:

Relinquished By/Affiliation Date/Time Accepted By/Affiliation Date/Time

(Sampler) 7/25/20 16:37 7/25/20 16:37

Project Managers: Michael Ginsbach, Sherry Van Damm, Angela Fogarty (emails shown above)

Page 20 of 22

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: MPCA	Project #: WO# : 10525504
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/23/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ Temp Blank? ☒ Yes ☐ No
 Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>12.7, 9.6, 12.2, 1.3</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>TME</u> Cooler Temp Corrected w/temp blank: <u>12.7, 9.6, 12.2, 1.3</u> °C	

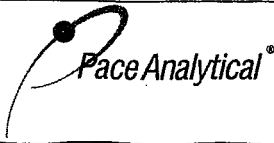
USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: MUZ 7-26-20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	
Containers Intact? ☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception
	Chlorine? ☐ Yes ☐ No pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____ Field Data Required? ☐ Yes ☐ No

Project Manager Review: Anna Asp Date: 7/21/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: OK/10

	Document Name: Sample Condition Upon Receipt (SCUR) Exception Form	Document Revised: 04Jun2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0142 Rev.01	Pace Analytical Services - Minneapolis

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☒ No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why. <i>Same Day ALB (12/12)</i>																		
			Multiple Cooler Project? ☐ Yes ☒ No If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp												
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			

Tracking Number/Temperature

Issue Type:	Container Type	# of Containers
Sample ID	Type	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 22, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525217

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory between July 16, 2020 and July 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525217001	634-A1	Solid	07/16/20 15:10	07/16/20 17:19
10525217002	634-A2	Solid	07/16/20 15:23	07/16/20 17:19
10525217003	634-A3	Solid	07/16/20 15:35	07/16/20 17:19
10525217004	634-A4	Solid	07/16/20 15:53	07/16/20 17:19
10525217005	M-7	Solid	07/16/20 15:36	07/16/20 17:19
10525217006	634-A1-NW	Solid	07/16/20 15:04	07/16/20 17:19
10525217007	634-A1-NE	Solid	07/16/20 15:07	07/16/20 17:19
10525217008	634-A1-SW	Solid	07/16/20 15:04	07/16/20 17:19
10525217009	634-A1-SE	Solid	07/16/20 15:08	07/16/20 17:19
10525217010	634-A2-NW	Solid	07/16/20 15:16	07/16/20 17:19
10525217011	634-A2-NE	Solid	07/16/20 15:17	07/16/20 17:19
10525217012	634-A2-SW	Solid	07/16/20 15:20	07/16/20 17:19
10525217013	634-A2-SE	Solid	07/16/20 15:19	07/16/20 17:19
10525217014	634-A3-NW	Solid	07/16/20 15:27	07/16/20 17:19
10525217015	634-A3-NE	Solid	07/16/20 15:24	07/16/20 17:19
10525217016	634-A3-SW	Solid	07/16/20 15:33	07/16/20 17:19
10525217017	634-A3-SE	Solid	07/16/20 15:30	07/16/20 17:19
10525217018	634-A4-NW	Solid	07/16/20 15:45	07/16/20 17:19
10525217019	634-A4-NE	Solid	07/16/20 15:46	07/16/20 17:19
10525217020	634-A4-SW	Solid	07/16/20 15:50	07/16/20 17:19
10525217021	634-A4-SE	Solid	07/16/20 15:48	07/16/20 17:19
10525217022	634-A1-0.5-1	Solid	07/16/20 15:11	07/16/20 17:19
10525217023	634-A1-1-1.5	Solid	07/16/20 15:13	07/16/20 17:19
10525217024	634-A2-0.5-1	Solid	07/16/20 15:23	07/16/20 17:19
10525217025	634-A2-1-1.5	Solid	07/16/20 15:26	07/16/20 17:19
10525217026	634-A3-0.5-1	Solid	07/16/20 15:38	07/16/20 17:19
10525217027	634-A3-1-1.5	Solid	07/16/20 15:40	07/16/20 17:19
10525217028	634-A4-0.5-1	Solid	07/16/20 15:58	07/16/20 17:19
10525217029	634-A4-1-1.5	Solid	07/16/20 15:59	07/16/20 17:19
10525217030	634-B1	Solid	07/17/20 08:35	07/17/20 15:43
10525217031	634-B2	Solid	07/17/20 08:50	07/17/20 15:43
10525217032	634-B3	Solid	07/17/20 09:10	07/17/20 15:43
10525217033	634-B4	Solid	07/17/20 09:20	07/17/20 15:43
10525217034	634-C4	Solid	07/17/20 09:50	07/17/20 15:43
10525217035	634-B1-NW	Solid	07/17/20 08:25	07/17/20 15:43
10525217036	634-B1-NE	Solid	07/17/20 08:27	07/17/20 15:43
10525217037	634-B1-SW	Solid	07/17/20 08:32	07/17/20 15:43

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525217038	634-B1-SE	Solid	07/17/20 08:30	07/17/20 15:43
10525217039	634-B2-NW	Solid	07/17/20 08:42	07/17/20 15:43
10525217040	634-B2-NE	Solid	07/17/20 08:45	07/17/20 15:43
10525217041	634-B2-SW	Solid	07/17/20 08:46	07/17/20 15:43
10525217042	634-B3-SE	Solid	07/17/20 08:49	07/17/20 15:43
10525217043	634-B3-NW	Solid	07/17/20 08:53	07/17/20 15:43
10525217044	634-B3-NE	Solid	07/17/20 09:05	07/17/20 15:43
10525217045	634-B3-SW	Solid	07/17/20 09:07	07/17/20 15:43
10525217046	634-B3-SE	Solid	07/17/20 09:09	07/17/20 15:43
10525217047	634-B4-NW	Solid	07/17/20 09:16	07/17/20 15:43
10525217048	634-B4-NE	Solid	07/17/20 09:19	07/17/20 15:43
10525217049	634-B4-SW	Solid	07/17/20 09:20	07/17/20 15:43
10525217050	634-B4-SE	Solid	07/17/20 09:20	07/17/20 15:43
10525217051	634-C4-NW	Solid	07/17/20 09:40	07/17/20 15:43
10525217052	634-C4-NE	Solid	07/17/20 09:42	07/17/20 15:43
10525217053	634-C4-SW	Solid	07/17/20 09:45	07/17/20 15:43
10525217054	634-C4-SE	Solid	07/17/20 09:46	07/17/20 15:43
10525217055	634-B1-0.5-1	Solid	07/17/20 08:37	07/17/20 15:43
10525217056	634-B1-1-1.5	Solid	07/17/20 08:39	07/17/20 15:43
10525217057	634-B2-0.5-1	Solid	07/17/20 08:51	07/17/20 15:43
10525217058	634-B2-1-1.5	Solid	07/17/20 08:52	07/17/20 15:43
10525217059	634-B3-0.5-1	Solid	07/17/20 09:11	07/17/20 15:43
10525217060	634-B3-1-1.5	Solid	07/17/20 09:12	07/17/20 15:43
10525217061	634-B4-0.5-1	Solid	07/17/20 09:25	07/17/20 15:43
10525217062	634-B4-1-1.5	Solid	07/17/20 09:25	07/17/20 15:43
10525217063	634-C4-0.5-1	Solid	07/17/20 09:50	07/17/20 15:43
10525217064	634-C4-1-1.5	Solid	07/17/20 09:55	07/17/20 15:43

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525217001	634-A1	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217002	634-A2	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217003	634-A3	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217004	634-A4	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217005	M-7	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217030	634-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217031	634-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217032	634-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217033	634-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525217034	634-C4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-A1 **Lab ID: 10525217001** Collected: 07/16/20 15:10 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	79.6	mg/kg	0.60	0.14	1	07/19/20 13:33	07/20/20 11:58	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.4	%	0.10	0.10	1		07/20/20 11:18		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-A2 **Lab ID: 10525217002** Collected: 07/16/20 15:23 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	10.1	mg/kg	0.59	0.13	1	07/19/20 13:33	07/20/20 12:00	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	21.7	%	0.10	0.10	1		07/20/20 11:18		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-A3 **Lab ID: 10525217003** Collected: 07/16/20 15:35 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	19.8	mg/kg	0.56	0.13	1	07/19/20 13:33	07/20/20 12:01	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.2	%	0.10	0.10	1		07/20/20 11:18		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-A4 **Lab ID: 10525217004** Collected: 07/16/20 15:53 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	48.1	mg/kg	0.59	0.13	1	07/19/20 13:33	07/20/20 12:03	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.9	%	0.10	0.10	1		07/20/20 11:18		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: M-7 **Lab ID: 10525217005** Collected: 07/16/20 15:36 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	32.8	mg/kg	0.59	0.13	1	07/19/20 13:33	07/20/20 12:05	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.3	%	0.10	0.10	1		07/20/20 10:57		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-B1 **Lab ID: 10525217030** Collected: 07/17/20 08:35 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	16.4	mg/kg	0.54	0.12	1	07/21/20 09:26	07/21/20 15:54	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.1	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-B2 **Lab ID: 10525217031** Collected: 07/17/20 08:50 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	14.5	mg/kg	0.56	0.13	1	07/21/20 09:26	07/21/20 15:56	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.9	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-B3 **Lab ID: 10525217032** Collected: 07/17/20 09:10 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.4	mg/kg	0.56	0.13	1	07/21/20 09:26	07/21/20 15:57	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.5	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-B4 **Lab ID: 10525217033** Collected: 07/17/20 09:20 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	13.2	mg/kg	0.54	0.12	1	07/21/20 09:26	07/21/20 15:59	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	11.9	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Sample: 634-C4 **Lab ID: 10525217034** Collected: 07/17/20 09:50 Received: 07/17/20 15:43 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	11.8	mg/kg	0.54	0.12	1	07/21/20 09:26	07/21/20 16:01	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	9.0	%	0.10	0.10	1		07/20/20 14:21		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

QC Batch: 687709

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525217001, 10525217002, 10525217003, 10525217004, 10525217005

METHOD BLANK: 3678254

Matrix: Solid

Associated Lab Samples: 10525217001, 10525217002, 10525217003, 10525217004, 10525217005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/20/20 11:09	

LABORATORY CONTROL SAMPLE: 3678255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.3	48.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678256 3678257

Parameter	Units	10525214001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	106	54	55	129	129	42	42	75-125	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

QC Batch: 687989

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525217030, 10525217031, 10525217032, 10525217033, 10525217034

METHOD BLANK: 3679646

Matrix: Solid

Associated Lab Samples: 10525217030, 10525217031, 10525217032, 10525217033, 10525217034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/21/20 15:27	

LABORATORY CONTROL SAMPLE: 3679647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.7	47.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3679648 3679649

Parameter	Units	10525371001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	50.7	56.1	55.1	96.3	95.1	81	81	75-125	1	20	

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

QC Batch: 687800

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525217001, 10525217002, 10525217003, 10525217004, 10525217005

SAMPLE DUPLICATE: 3678552

Parameter	Units	10525214001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.5	14.4	7	30	N2

SAMPLE DUPLICATE: 3678553

Parameter	Units	10525217005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.3	15.7	10	30	N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

QC Batch:	687935	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525217030, 10525217031, 10525217032, 10525217033, 10525217034

SAMPLE DUPLICATE: 3679162

Parameter	Units	10525371001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	13.7	4	30	N2

SAMPLE DUPLICATE: 3679163

Parameter	Units	10524408006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.4	39.2	0	30	N2

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525217

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525217

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525217

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525217001	634-A1	EPA 3050B	687709	EPA 6010D	687840
10525217002	634-A2	EPA 3050B	687709	EPA 6010D	687840
10525217003	634-A3	EPA 3050B	687709	EPA 6010D	687840
10525217004	634-A4	EPA 3050B	687709	EPA 6010D	687840
10525217005	M-7	EPA 3050B	687709	EPA 6010D	687840
10525217030	634-B1	EPA 3050B	687989	EPA 6010D	688183
10525217031	634-B2	EPA 3050B	687989	EPA 6010D	688183
10525217032	634-B3	EPA 3050B	687989	EPA 6010D	688183
10525217033	634-B4	EPA 3050B	687989	EPA 6010D	688183
10525217034	634-C4	EPA 3050B	687989	EPA 6010D	688183
10525217001	634-A1	ASTM D2974	687800		
10525217002	634-A2	ASTM D2974	687800		
10525217003	634-A3	ASTM D2974	687800		
10525217004	634-A4	ASTM D2974	687800		
10525217005	M-7	ASTM D2974	687800		
10525217030	634-B1	ASTM D2974	687935		
10525217031	634-B2	ASTM D2974	687935		
10525217032	634-B3	ASTM D2974	687935		
10525217033	634-B4	ASTM D2974	687935		
10525217034	634-C4	ASTM D2974	687935		

REPORT OF LABORATORY ANALYSIS

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WO#: 10525217



10525217

		MPCA Chain-of-Custody Form version 2017.0328 * indicates a required field				Work Order Number: Turnaround Time: Rush 3 day		COC Type: Standard COC ID:		Pa:			
Facility Code: MND006148092		PROJECT/CLIENT INFO Program Code (MDH Lab Only):				LABORATORY Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414		EPA Lab ID: MN00064		Project Manager: Michael Ginsbach, michael.ginsbach@state.mn.us, Sherry Van Duyn, svanduy@landmarkenv.com, Angela Fog			
Potential Hazard? N		FIELD MATRICES DW=Drinking Water NW=Non-potable Water SD=Soil/Solid AF=Air BL=Biological Material OT=Other TS=Tissue				ANALYSIS REQUESTED PRESERV. FF ANALYSIS* Lead, 6010D		Lab Sample No. 101 102 103 104 105 106 107 108 109 110		Field Matrices Wt-Ground=Groundwater Wt-Surf=Surface Water Wt-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas			
SAMPLE DETAILS SAMPLING METHODS G=Grab sample C=Cumulative, time-paced w/AS C=Cumulative, time-paced w/AS D=Duplicate, time-paced w/AS D=Duplicate, time-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown		LAB MATRICES DW=Drinking Water NW=Non-potable Water SD=Soil/Solid AF=Air		Depth Start (ft) End (ft)		Sampling Method Method* Units (m or ft)		End Date (mm/dd/yyyy) Complete ONLY if Method is CT, CF, D-T, or D-F		Field Matrix* AIS SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf		Sampler Comments (filter volume, special handling, etc.) HOOD 1 1 1 1 1 1 1 1 1	
MN Location Identifier* 634-A1 634-A2 634-A3 634-A4 634-B1 634-B2 634-B3 634-B4 M-7		Sample Type* Sample Sample Sample Sample Sample Sample Sample Sample		Start Date* (mm/dd/yyyy) 7/16/20 7/16/20 7/16/20 7/16/20 7/16/20 7/16/20 7/16/20 7/16/20 7/16/20		Start Time* (hh:mm) 05:10 05:23 05:35 05:53 05:10 05:23 05:35 05:53 05:10		End Time* (hh:mm) 05:10 05:23 05:35 05:53 05:10 05:23 05:35 05:53 05:10		Field Matrix* AIS SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf SD Soil-Surf		Sampler Comments (filter volume, special handling, etc.) HOOD 1 1 1 1 1 1 1 1 1	
Sampler's Name: Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acct#: 20093.01		Tracking#:			
Relinquished By/Affiliation (Signature)		Date/Time 7/16/20 16:59		Accepted By/Affiliation TN/Pace		Date/Time 7/16/20/1719		Relinquished By/Affiliation (Signature)		Date/Time 7/16/20/1719			
Receiving Comments:													

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 2.7 32.7 CEC 7/16/20
 27.5

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 2 of 6	
Facility Code: MND006148092		* indicates a required field				Turnaround Time: Rush		COC ID:		FOR LAB USE ONLY	
Project Name: 3344 Highway 149 Adjacent Property, Eagan		PROJECT/CLIENT INFO				LABORATORY					
Project Manager: michael.ginsbach@state.mn.us, svandun@landmarkenv.com, angela.fogarty@gopherresource.com		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Minneapolis, MN 55414	
Potential Hazard?		N				If yes, add information to Sampler Comments field		EPA Lab ID: MN00064		Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		Biological Material		FIELD MATRICES		ANALYSIS REQUESTED	
Sample-Routine Sample	G-Grab sample	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
QC-FB-Field Replicate Sample	CT-Composite, time-paced w/AS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
QC-TB-Trip Blank Sample	D-Discrete time-paced w/AS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
QC-TB-Trip Blank Sample	D-Discrete time-paced w/AS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
QC-EB-Equipment Blank	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
Treated-Mid-Treatment system sample	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
Treated-Post-Treatment system sample	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS	SW-GAS
SAMPLE DETAILS		Depth		End		Start		End Date		End Time	
MN Location Identifier*	Sample Type*	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample
634-A1-NW	Sample	7/10/2020 15:04	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:07	0.5 ft	0	0.5 ft
634-A1-NE	Sample	7/10/2020 15:07	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:07	0.5 ft	0	0.5 ft
634-A1-SW	Sample	7/10/2020 15:07	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:07	0.5 ft	0	0.5 ft
634-A1-SE	Sample	7/10/2020 15:08	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:08	0.5 ft	0	0.5 ft
634-A2-NW	Sample	7/10/2020 15:10	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:10	0.5 ft	0	0.5 ft
634-A2-NE	Sample	7/10/2020 15:17	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:17	0.5 ft	0	0.5 ft
634-A2-SW	Sample	7/10/2020 15:20	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:20	0.5 ft	0	0.5 ft
634-A2-SE	Sample	7/10/2020 15:19	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:19	0.5 ft	0	0.5 ft
634-A3-NW	Sample	7/10/2020 15:27	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:27	0.5 ft	0	0.5 ft
634-A3-NE	Sample	7/10/2020 15:29	0.5 ft	0	0.5 ft	0	0.5 ft	7/10/2020 15:29	0.5 ft	0	0.5 ft
Sampler's Name: Eric Gabrielson		Phone: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01					
Sampler's Signature: [Signature]				Address: 2042 W. 98th St., Bloomington, MN 55431							
Sampler's Organization: Landmark Environmental, LLC				Courier Name:		Tracking#:					
Receiving Comments:				Date/Time		Accepted By/Affiliation		Date/Time			
Relinquished By/Affiliation		Date/Time		Date/Time		Accepted By/Affiliation		Date/Time			
(Sampler)		7/16/20		7/16/20		IN [Signature]		7/16/20/1719			
		16:54									

Project Managers: Michael Ginsbach, Sherry Van Duren, Angela Fogarty (emails shown above)

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2.7 32.2 CEG 7/16/20
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[illegible]

5.9 12.5
~~32.2~~ CEG 7/16/20
27.5

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 5 of 6																																																																																																																																																																																																																																																																																																																																		
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Project Name:*		3344 Highway 149 Adjacent Property, Eagan				Project Task Code: PRJ08104																																																																																																																																																																																																																																																																																																																																						
Project Manager:		michael.ginsbach@state.mn.us, svanduyin@landmarkenv.com, angela.fogarty@gopherresource.com				Address: 1700 Elm St SE																																																																																																																																																																																																																																																																																																																																						
Potential Hazard?		N				Minneapolis, MN 55414																																																																																																																																																																																																																																																																																																																																						
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SAMPLE TYPES Sample-Routine Sample QC-FB-Field Blank Sample QC-FB-Field Replicate Sample QC-FB-Trip Blank Sample QC-FB-Equipment Blank Treated-Water-Treatment system sample Treated-Water-Treatment system sample SAMPLING METHODS G-Grab sample CT-Composite, time-paced w/AS CF-Composite w/AS D-T-Duplicate, time-paced w/AS D-T-Duplicate, flow-paced w/AS SW-GAS-Gas Sampling Unknown-Unknown LAB MATRICES DW-Drinking Water NW-Nonpotable Water SD-Soil/Solid AB-Air FIELD MATRICES Wt-Groundwater Wt-Surf-Surface Water Wt-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas																																																																																																																																																																																																																																																																																																																																												
SAMPLE DETAILS <table border="1"> <thead> <tr> <th rowspan="2">MN Location Identifier*</th> <th rowspan="2">Field Name</th> <th rowspan="2">Sample Type*</th> <th rowspan="2">Start Date* (mm/dd/yyyy)</th> <th rowspan="2">Start Time* (hh:mm)</th> <th rowspan="2">Depth (ft)</th> <th rowspan="2">Sampling Method*</th> <th rowspan="2">End Date (mm/dd/yyyy)</th> <th rowspan="2">End Time (hh:mm)</th> <th rowspan="2">Lab Matrix*</th> <th rowspan="2">Field Matrix*</th> <th rowspan="2">AIS</th> <th rowspan="2">Sampler Comments (filter volume, special handling, etc.)</th> <th rowspan="2"># of Cont</th> <th rowspan="2">ANALYSIS*</th> <th rowspan="2">PRESERV.</th> <th colspan="2">ANALYSIS REQUESTED</th> <th rowspan="2">Lab Sample No.</th> </tr> <tr> <th>Complete ONLY if Method is CT, CF, D-T, or D-F</th> <th>Units (in or ft)</th> </tr> </thead> <tbody> <tr> <td>634-A1-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:11</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:11</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A2-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A3-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A4-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A5-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A6-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A7-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> <td>Soil-Surf</td> <td></td> <td>sample hold</td> <td>1</td> <td></td> <td></td> <td>022</td> <td>023</td> <td>024</td> <td>025</td> <td>026</td> <td>027</td> <td>028</td> <td>029</td> <td>030</td> <td>031</td> <td>032</td> <td>033</td> <td>034</td> <td>035</td> </tr> <tr> <td>634-A8-1-1.5</td> <td>Sample</td> <td>7/1/2020</td> <td>15:13</td> <td>0.5</td> <td>1</td> <td>G</td> <td>7/1/2020</td> <td>15:13</td> <td>SD</td> 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ANALYSIS REQUESTED		Lab Sample No.	Complete ONLY if Method is CT, CF, D-T, or D-F	Units (in or ft)	634-A1-1-1.5	Sample	7/1/2020	15:11	0.5	1	G	7/1/2020	15:11	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A2-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A3-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A4-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A5-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A6-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A7-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A8-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A9-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035	634-A10-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	AIS																	Sampler Comments (filter volume, special handling, etc.)	# of Cont		ANALYSIS*	PRESERV.	ANALYSIS REQUESTED		Lab Sample No.																																																																																																																																																																																																																																																																																																									
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634-A1-1-1.5	Sample	7/1/2020	15:11	0.5	1	G	7/1/2020	15:11	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
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634-A5-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
634-A6-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
634-A7-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
634-A8-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
634-A9-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
634-A10-1-1.5	Sample	7/1/2020	15:13	0.5	1	G	7/1/2020	15:13	SD	Soil-Surf		sample hold	1			022	023	024	025	026	027	028	029	030	031	032	033	034	035																																																																																																																																																																																																																																																																																																															
Sampler's Name:*		Eric Gabrielson				Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acc#: 20093.01																																																																																																																																																																																																																																																																																																																																		
Sampler's Signature:*								Address: 2042 W. 98th St, Bloomington, MN 55431																																																																																																																																																																																																																																																																																																																																				
Sampler's Organization:*		Landmark Environmental, LLC						Courier Name:		Tracking#:																																																																																																																																																																																																																																																																																																																																		
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	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>Landmark Env.</u>	Project #: W0# : 10525217
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____	Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C
Correction Factor: <u>True</u>	Cooler Temp Corrected w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C
Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: CEC 7/16/20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	9.
Containers Intact? ☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	12. Sample #
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	Chlorine? ☐ Yes ☐ No ☐ See Exception
(HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	pH Paper Lot#
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Res. Chlorine
	0-6 Roll
	0-6 Strip
	0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased):
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION Person Contacted: _____ Comments/Resolution: _____	Field Data Required? ☐ Yes ☐ No Date/Time: _____

Project Manager Review: _____ Date: 7/17/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).



MPCA Chain-of-Custody Form

Work Order Number: COC Type: Standard

Page: 1

* Indicates a required field

WO#: 10525217



PROJECT/CLIENT INFO

Facility Code: * MND006148092
Project Name: * 3344 Highway 149 Adjacent Property, Eagan
Project Manager: Michael Ginsbach, michael.ginsbach@state.mn.us, Sherry Van Duyn, svanduy@landmarkenv.com, Angela Fog
Potential Hazard? N
If yes, add information to Sampler Comments field

LABORATORY

Lab Name: Pace Analytical - Minneapolis
Address: 1700 Elm St SE
Minneapolis, MN 55414
EPA Lab ID: * MN00064

SAMPLE DETAILS

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hr:mm)	End (m or ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hr:mm)	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS REQUESTED	
													ANALYSIS*	PRESERV.
		Sample	7/1/2020							Soil-Surf			Lead, 6010D	
		Sample	7/1/2020							Soil-Surf				
		Sample	7/1/2020							Soil-Surf				
		Sample	7/1/2020							Soil-Surf				
634-B1		Sample	7/1/2020	08:35	0	0.5			SD	Soil-Surf				
634-B2		Sample	7/1/2020	08:50	0	0.5			SD	Soil-Surf				
634-B3		Sample	7/1/2020	09:10	0	0.5			SD	Soil-Surf				
634-B4		Sample	7/1/2020	09:10	0	0.5			SD	Soil-Surf				
634-C4			7/17/2020	09:50	0	0.5			SD					

Sampler's Name: * Eric Gabrielson
Sampler's Signature: *
Sampler's Organization:
Receiving Comments:

Billing Organization: Landmark Environmental, LLC
Address: 2042 W. 98th St., Bloomington, MN 55431
Phone#: 952-240-8935
Date/Time: 7/17/2020 15:43
Accepted By/Affiliation:
Date/Time: 7-17-2020 15:43

 Minnesota Pollution Control Agency	MPCA Chain-of-Custody Form * indicates a required field		Work Order Number: <u>20093.01</u>	COC Type: Standard	Page: 3 of 6											
	Project/Client Info		Turnaround Time: <u>20093.01</u>	COC ID: <u>20093.01</u>	FOR LAB USE ONLY											
Facility Code: *	MND006148092		LABORATORY													
Project Name: *	3344 Highway 149 Adjacent Property, Eagan		Lab Name: Pace Analytical - Minneapolis													
Project Manager:	michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Address: 1700 Elm St SE Minneapolis, MN 55414													
Potential Hazard?	N		EPA Lab ID: * MN000064													
SAMPLE DETAILS																
SAMPLE TYPES SW-GAS: Gas Sampling SW-GAS: Gas Sampling Unknown-Unknown	SAMPLING METHODS G-Grab sample CT-Composite, time-paced w/AS CF-Composite w/AS D-T-Direct time-paced w/AS D-T-Direct flow-paced w/AS SW-GAS: Gas Sampling Unknown-Unknown	LAB MATRICES DW=Drinking Water NW=Nonpotable Water SD=Soil/Solid AR=Air	Depth	Start Time* (mm/dd/yyyy)	End Time (mm/dd/yyyy)	Sampling Method*	End Date (mm/dd/yyyy)	Field Matrix*	Lab Matrix*	SAMPLING COMMENTS (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES Wt-Ground=Groundwater Wt-Surf=Surface Water Wt-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas	Lab Sample No.	#
634-B1-NW	Sample	7/1/2020									Sample hold	1				1
634-B1-NE	Sample	7/1/2020									Sample hold	1				2
634-B1-SW	Sample	7/1/2020									Sample hold	1				3
634-B1-SE	Sample	7/1/2020									Sample hold	1				4
634-B1-NW	Sample	7/1/2020	0.5	ft					SD	Soil-Surf	Sample hold	1				5
634-B1-NE	Sample	7/1/2020	0.5	ft					SD	Soil-Surf	Sample hold	1				6
634-B1-SW	Sample	7/1/2020	0.5	ft					SD	Soil-Surf	Sample hold	1				7
634-B1-SE	Sample	7/1/2020	0.5	ft					SD	Soil-Surf	Sample hold	1				8
Billing Organization: Landmark Environmental, LLC																
Address: 2042 W. 98th St., Bloomington, MN 55431																
Phone#: 952-240-8935																
Courier Name: Tracking#:																
Relinquished By/Affiliation																
Receiving Comments:																
Date/Time																
Accepted By/Affiliation																
Date/Time																

[illegible]

WO#: 10525217



10525217

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard	
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Turnaround Time: <u>Peak 3 day</u>		COC ID:	
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		LABORATORY		EPA Lab ID: * MN00064	
Potential Hazard? N		If yes, add information to Sampler Comments field		Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE	
				Minneapolis, MN 55414			
SAMPLE TYPES		SAMPLE METHODS		SAMPLE DETAILS		ANALYSIS REQUESTED	
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth	Units (in or ft)	Sampling Method*
634-B1-0.5-1		Sample	7/1/2020	08:51	0.5	1 ft	G
634-B1-1-1.5		Sample	7/1/2020	08:51	1	1.5 ft	G
634-B2-0.5-1		Sample	7/1/2020	08:51	0.5	1 ft	G
634-B2-1-1.5		Sample	7/1/2020	08:52	1	1.5 ft	G
634-B3-0.5-1		Sample	7/1/2020	09:11	0.5	1 ft	G
634-B3-1-1.5		Sample	7/1/2020	09:12	1	1.5 ft	G
634-B4-0.5-1		Sample	7/1/2020	09:25	0.5	1 ft	G
634-B4-1-1.5		Sample	7/1/2020	09:25	1	1.5 ft	G
634-C4-0.5-1		7/1/20	09:50	05:14			
634-C4-1-1.5		7/17/20	09:55	1:54			
Sampler's Name: * Eric Gabrielson		Phone: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature: *				Address: 2042 W. 98th St., Bloomington, MN 55431			
Sampler's Organization: * Landmark Environmental, LLC				Courier Name:		Tracking#:	
Receiving Comments:				Date/Time		Accepted By/Affiliation	
Relinquished By/Affiliation				Date/Time		Accepted By/Affiliation	
(Sampler)				7/17/20		Charles D/ Pme	
				1:43		7-17-20	
						1543	

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>MPCA</u>	Project #: WO# : 10525217
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other: box Temp Blank? ☒ Yes ☐ No
 Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
☐ T4(0254) ☒ T5(0489)

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>33.2, 3.9, 8.9</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>true</u> Cooler Temp Corrected w/temp blank: <u>33.2, 3.9, 8.9</u> °C	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: TN 7/17/20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	
Containers Intact? ☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☒ No
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☒ No pH Paper Lot# ☐ See Exception
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Anna Asp Date: 7/20/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

July 17, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10524819

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524819001	638-A1	Solid	07/14/20 10:06	07/14/20 16:46
10524819002	638-A2	Solid	07/14/20 10:35	07/14/20 16:46
10524819003	638-A3	Solid	07/14/20 11:01	07/14/20 16:46
10524819004	638-A4	Solid	07/14/20 11:25	07/14/20 16:46
10524819005	638-B1	Solid	07/14/20 12:02	07/14/20 16:46
10524819006	638-B2	Solid	07/14/20 12:27	07/14/20 16:46
10524819007	638-B3	Solid	07/14/20 13:01	07/14/20 16:46
10524819008	638-B4	Solid	07/14/20 13:31	07/14/20 16:46
10524819009	M-1	Solid	07/14/20 10:05	07/14/20 16:46
10524819010	638-A1-NW	Solid	07/14/20 09:46	07/14/20 16:46
10524819011	638-A1-NE	Solid	07/14/20 09:51	07/14/20 16:46
10524819012	638-A1-SW	Solid	07/14/20 10:01	07/14/20 16:46
10524819013	638-A1-SE	Solid	07/14/20 09:56	07/14/20 16:46
10524819014	638-A2-NW	Solid	07/14/20 10:19	07/14/20 16:46
10524819015	638-A2-NE	Solid	07/14/20 10:23	07/14/20 16:46
10524819016	638-A2-SW	Solid	07/14/20 10:32	07/14/20 16:46
10524819017	638-A2-SE	Solid	07/14/20 10:26	07/14/20 16:46
10524819018	638-A3-NW	Solid	07/14/20 10:47	07/14/20 16:46
10524819019	638-A3-NE	Solid	07/14/20 10:53	07/14/20 16:46
10524819020	638-A3-SW	Solid	07/14/20 10:59	07/14/20 16:46
10524819021	638-A3-SE	Solid	07/14/20 10:57	07/14/20 16:46
10524819022	638-A4-NW	Solid	07/14/20 11:12	07/14/20 16:46
10524819023	638-A4-NE	Solid	07/14/20 11:19	07/14/20 16:46
10524819024	638-A4-SW	Solid	07/14/20 11:23	07/14/20 16:46
10524819025	638-A4-SE	Solid	07/14/20 11:20	07/14/20 16:46
10524819026	638-B1-NW	Solid	07/14/20 11:48	07/14/20 16:46
10524819027	638-B1-NE	Solid	07/14/20 11:53	07/14/20 16:46
10524819028	638-B1-SW	Solid	07/14/20 12:01	07/14/20 16:46
10524819029	638-B1-SE	Solid	07/14/20 11:56	07/14/20 16:46
10524819030	638-B2-NW	Solid	07/14/20 12:13	07/14/20 16:46
10524819031	638-B2-NE	Solid	07/14/20 12:17	07/14/20 16:46
10524819032	638-B2-SW	Solid	07/14/20 12:26	07/14/20 16:46
10524819033	638-B2-SE	Solid	07/14/20 12:20	07/14/20 16:46
10524819034	638-B3-NW	Solid	07/14/20 12:43	07/14/20 16:46
10524819035	638-B3-NE	Solid	07/14/20 12:52	07/14/20 16:46
10524819036	638-B3-SW	Solid	07/14/20 12:56	07/14/20 16:46
10524819037	638-B3-SE	Solid	07/14/20 12:58	07/14/20 16:46

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524819038	638-B4-NW	Solid	07/14/20 13:17	07/14/20 16:46
10524819039	638-B4-NE	Solid	07/14/20 13:21	07/14/20 16:46
10524819040	638-B4-SW	Solid	07/14/20 13:30	07/14/20 16:46
10524819041	638-B4-SE	Solid	07/14/20 13:26	07/14/20 16:46
10524819042	638-A1-0.5-1	Solid	07/14/20 10:12	07/14/20 16:46
10524819043	638-A1-1-1.5	Solid	07/14/20 10:13	07/14/20 16:46
10524819044	638-A2-0.5-1	Solid	07/14/20 10:40	07/14/20 16:46
10524819045	638-A2-1-1.5	Solid	07/14/20 10:42	07/14/20 16:46
10524819046	638-A3-0.5-1	Solid	07/14/20 11:05	07/14/20 16:46
10524819047	638-A3-1-1.5	Solid	07/14/20 11:08	07/14/20 16:46
10524819048	638-A4-0.5-1	Solid	07/14/20 11:33	07/14/20 16:46
10524819049	638-A4-1-1.5	Solid	07/14/20 11:35	07/14/20 16:46
10524819050	638-B1-0.5-1	Solid	07/14/20 12:06	07/14/20 16:46
10524819051	638-B1-1-1.5	Solid	07/14/20 12:07	07/14/20 16:46
10524819052	638-B2-0.5-1	Solid	07/14/20 12:33	07/14/20 16:46
10524819053	638-B2-1-1.5	Solid	07/14/20 12:34	07/14/20 16:46
10524819054	638-B3-0.5-1	Solid	07/14/20 13:08	07/14/20 16:46
10524819055	638-B3-1-1.5	Solid	07/14/20 13:11	07/14/20 16:46
10524819056	638-B4-0.5-1	Solid	07/14/20 13:36	07/14/20 16:46
10524819057	638-B4-1-1.5	Solid	07/14/20 13:37	07/14/20 16:46

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10524819001	638-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819002	638-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819003	638-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819004	638-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819005	638-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819006	638-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819007	638-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819008	638-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524819009	M-1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-A1 **Lab ID: 10524819001** Collected: 07/14/20 10:06 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	17.2	mg/kg	0.61	0.14	1	07/15/20 08:06	07/15/20 14:24	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	19.3	%	0.10	0.10	1		07/15/20 13:58		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-A2 **Lab ID: 10524819002** Collected: 07/14/20 10:35 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	14.1	mg/kg	0.60	0.14	1	07/15/20 08:06	07/15/20 14:29	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.5	%	0.10	0.10	1		07/15/20 13:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-A3 **Lab ID: 10524819003** Collected: 07/14/20 11:01 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	26.8	mg/kg	0.56	0.13	1	07/15/20 08:06	07/15/20 14:30	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.9	%	0.10	0.10	1		07/15/20 13:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-A4 **Lab ID: 10524819004** Collected: 07/14/20 11:25 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	17.3	mg/kg	0.61	0.14	1	07/15/20 08:06	07/15/20 14:32	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.8	%	0.10	0.10	1		07/15/20 13:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-B1 **Lab ID: 10524819005** Collected: 07/14/20 12:02 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	27.0	mg/kg	0.60	0.13	1	07/15/20 08:06	07/15/20 14:34	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.9	%	0.10	0.10	1		07/15/20 13:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-B2 **Lab ID: 10524819006** Collected: 07/14/20 12:27 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	16.8	mg/kg	0.56	0.13	1	07/15/20 08:06	07/15/20 14:35	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.9	%	0.10	0.10	1		07/15/20 13:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-B3 **Lab ID: 10524819007** Collected: 07/14/20 13:01 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	11.6	mg/kg	0.59	0.13	1	07/15/20 08:06	07/15/20 14:37	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.3	%	0.10	0.10	1		07/15/20 13:59		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: 638-B4 **Lab ID: 10524819008** Collected: 07/14/20 13:31 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.8	mg/kg	0.56	0.13	1	07/15/20 08:06	07/15/20 14:39	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.7	%	0.10	0.10	1		07/15/20 13:59		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Sample: M-1 **Lab ID: 10524819009** Collected: 07/14/20 10:05 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.9	mg/kg	0.59	0.13	1	07/15/20 08:06	07/15/20 14:40	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.1	%	0.10	0.10	1		07/15/20 13:59		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

QC Batch:	686858	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10524819001, 10524819002, 10524819003, 10524819004, 10524819005, 10524819006, 10524819007, 10524819008, 10524819009		

METHOD BLANK:	3673033	Matrix:	Solid
Associated Lab Samples:	10524819001, 10524819002, 10524819003, 10524819004, 10524819005, 10524819006, 10524819007, 10524819008, 10524819009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.46	0.46	0.10	07/15/20 14:09	

LABORATORY CONTROL SAMPLE: 3673034						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49.5	51.3	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:													
					3673035	3673036							
		10524818002	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max RPD	Qual	
Parameter	Units	Result								RPD			
Lead	mg/kg	67.8	61.9	61.3	120	133	84	106	75-125	10	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

QC Batch:	687020	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10524819001, 10524819002, 10524819003, 10524819004, 10524819005, 10524819006, 10524819007, 10524819008, 10524819009		

SAMPLE DUPLICATE: 3673658

Parameter	Units	10524819001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	17.4	10	30	N2

SAMPLE DUPLICATE: 3673675

Parameter	Units	10524814003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.0	5.0	1	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10524819

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10524819001	638-A1	EPA 3050B	686858	EPA 6010D	686991
10524819002	638-A2	EPA 3050B	686858	EPA 6010D	686991
10524819003	638-A3	EPA 3050B	686858	EPA 6010D	686991
10524819004	638-A4	EPA 3050B	686858	EPA 6010D	686991
10524819005	638-B1	EPA 3050B	686858	EPA 6010D	686991
10524819006	638-B2	EPA 3050B	686858	EPA 6010D	686991
10524819007	638-B3	EPA 3050B	686858	EPA 6010D	686991
10524819008	638-B4	EPA 3050B	686858	EPA 6010D	686991
10524819009	M-1	EPA 3050B	686858	EPA 6010D	686991
10524819001	638-A1	ASTM D2974	687020		
10524819002	638-A2	ASTM D2974	687020		
10524819003	638-A3	ASTM D2974	687020		
10524819004	638-A4	ASTM D2974	687020		
10524819005	638-B1	ASTM D2974	687020		
10524819006	638-B2	ASTM D2974	687020		
10524819007	638-B3	ASTM D2974	687020		
10524819008	638-B4	ASTM D2974	687020		
10524819009	M-1	ASTM D2974	687020		

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WO# : 10524819



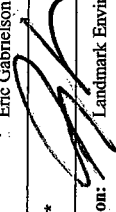
10524819

	MPCA Chain-of-Custody Form revision 2017.0328 * indicates a required field		Work Order Number: Turnaround Time: Rush 3 day	COC Type: Standard COC ID:	Page
	PROJECT/CLIENT INFO		LABORATORY		
Facility Code: *MND006148092	Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis		
Project Name: *3344 Highway 149 Adjacent Property, Eagan	Project Task Code: *PRJ08104		Address: 1700 Elm St SE		
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com			Minneapolis, MN 55414		
Potential Hazard? N	If yes, add information to Sampler Comments field		EPA Lab ID: *MN00064		

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Time (hh:mm)	Depth	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix* Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED									
638-A1		Sample	7/14/2020	10:00		0.5 ft	CO			SD	Soil-Surf	1												
638-A2		Sample	7/14/2020	10:35		0.5 ft	CO			SD	Soil-Surf	1												
638-A3		Sample	7/14/2020	11:01		0.5 ft	CO			SD	Soil-Surf	1												
638-A4		Sample	7/14/2020	11:25		0.5 ft	CO			SD	Soil-Surf	1												
638-B1		Sample	7/14/2020	12:02		0.5 ft	CO			SD	Soil-Surf	1												
638-B2		Sample	7/14/2020	12:27		0.5 ft	CO			SD	Soil-Surf	1												
638-B3		Sample	7/14/2020	13:01		0.5 ft	CO			SD	Soil-Surf	1												
638-B4		Sample	7/14/2020	13:31		0.5 ft	CO			SD	Soil-Surf	1												
M1		Sample	7/14/2020	10:05		0.5 ft	CO			SD	Soil-Surf	1												

Sampler's Name: Eric Gabrielson	Phone#: 952-240-8935	Billing Organization: Landmark Environmental, LLC	Acct#: 20093.01
Sampler's Signature:	Address: 2042 W. 98th St., Bloomington, MN 55431		
Sampler's Organization:	Courier Name:	Tracking#:	

Receiving Comments:	Date/Time	Accepted By/Affiliation	Date/Time
	7/14/20 16:46	LJ - PACE	7/14/20 16:45
Relinquished By/Affiliation	Date/Time	Accepted By/Affiliation	Date/Time
(Sampler)			

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page: 2 of 6	
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Turnaround Time: ~~Business Day~~		COC ID:		FOR LAB USE ONLY	
Project Manager: * michael.ginsbach@state.mn.us, svanduyin@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		LABORATORY		COC ID:			
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064		Minneapolis, MN 55414		Lab Work Order Sticker	
PROJECT/CLIENT INFO									
SAMPLE DETAILS									
SAMPLE TYPES	SAMPLING METHODS	LAB MATRICES	Depth	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Field Matrix* AIS
Sample-Routine Sample QC-FB-Field Blank Sample QC-FB-Field Replicate Sample QC-TB-Trip Blank Sample QC-EB-Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample	G-Grab sample CT-Composite, time-paced w/AS CF-Composite w/AS D-T-Discrete time-paced w/AS D-F-Discrete flow-paced w/AS SW-GAS-Gas Sampling Unknown-Unknown	BI-Biological Material OT-Other TS-Tissue DW-Drinking Water NW-Nonpotable Water SD-Soil/Solid AR-Air	0.5 ft	7/14/2020	09:40			G	Soil-Surf
638-A1-NW	Sample		0.5 ft	7/14/2020	09:51			G	Soil-Surf
638-A1-NE	Sample		0.5 ft	7/14/2020	10:01			G	Soil-Surf
638-A1-SW	Sample		0.5 ft	7/14/2020	10:19			G	Soil-Surf
638-A1-SE	Sample		0.5 ft	7/14/2020	10:23			G	Soil-Surf
638-A2-NW	Sample		0.5 ft	7/14/2020	10:32			G	Soil-Surf
638-A2-NE	Sample		0.5 ft	7/14/2020	10:47			G	Soil-Surf
638-A2-SW	Sample		0.5 ft	7/14/2020	10:53			G	Soil-Surf
638-A2-SE	Sample		0.5 ft	7/14/2020	11:01			G	Soil-Surf
638-A3-NW	Sample		0.5 ft	7/14/2020	11:17			G	Soil-Surf
638-A3-NE	Sample		0.5 ft	7/14/2020	11:23			G	Soil-Surf
Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Phone#: 952-240-8935 Acct#: 20093.01									
Sampler's Name: * Eric Gabrielson Sampler's Signature: *  Sampler's Organization: Landmark Environmental, LLC									
Receiving Comments: Relinquished By/Affiliation: Date/Time: 7/14/20 16:46 Accepted By/Affiliation: Date/Time: 7/14/20 16:48									

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form revision 2017.03.28

* indicates a required field

Work Order Number: **20093.01** COC Type: Standard Page: 3 of 6

Turnaround Time: **20093.01** COC ID: **20093.01**

FOR LAB USE ONLY

Facility Code: **MND006148092**

Project Name: **3344 Highway 149 Adjacent Property, Eagan**

Project Manager: **michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N** If yes, add information to Sampler Comments field

Program Code (MDH Lab Only): **PRJ08104**

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: **MN00064**

LABORATORY

ANALYSIS REQUESTED

MN Location Identifier*	Field Name	SAMPLING METHODS		LABORATORY METHODS		Depth	Start Time* (mm/dd/yyyy)	End Time (mm/dd/yyyy)	Sampling Method*	Field Matrix* AIS	Lab Matrix* SD	Complete ONLY if Method is CT, CF, D-T, or D-F	SAMPLER COMMENTS (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Air Gas-Soil-Soil Gas	Lab Sample No.
		G-Grab sample	CT-Composite, time-paced w/AS	DW-Drinking Water	CF-Composite w/AS													
638-A3-SW		Sample	7/12/2020 10:59	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1	Lead, 6010D	1	X		630	1
638-A3-SE		Sample	7/12/2020 10:57	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		621	2
638-A4-NW		Sample	7/12/2020 11:12	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		623	3
638-A4-NE		Sample	7/12/2020 11:19	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		623	4
638-A4-SW		Sample	7/12/2020 11:25	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		624	5
638-A4-SE		Sample	7/12/2020 11:20	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		625	6
638-B1-NW		Sample	7/12/2020 11:48	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		626	7
638-B1-NE		Sample	7/12/2020 11:53	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		627	8
638-B1-SW		Sample	7/12/2020 12:01	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		628	9
638-B1-SE		Sample	7/12/2020 11:56	0	0.5	ft	G		Soil-Surf	SD	Sample hold	1		1	X		629	10

Billing Organization: Landmark Environmental, LLC Phone#: 952-240-8935 Acc#: 20093.01

Address: 2042 W. 98th St., Bloomington, MN 55431

Courier Name: Tracking#:

Receiving Comments:

Relinquished By/Affiliation Date/Time Accepted By/Affiliation Date/Time

(Sampler) 7/14/20 16:46 15-PALE 7/14/20 16:46

Project Managers: Michael Ginsbach, Sherry Van Duyn, Angela Fogarty (emails shown above)

TZ 681018



revision.2017.0328

* indicates a required field

Work Order Number:

COC Type: Standard

Page:

PROJECT/CLIENT INFO

ility Code:* MND006148092

Program Code
(MDH Lab Only):

Project Name: 3344 Highway 149 Adjacent Property, Eagan

Project Task Code:* PRJ08104

Project Manager:	michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com

Potential Hazard?

If yes, add information to Sampler Comments field.

EPA Lab ID:* MN000064

MN00064

66

Two

Lab Work Order Sticker

SAMPLE DETAILS										ANALYSIS REQUESTED									
SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		PRESERV.		SAMPLER COMMENTS		# of Cont		ANALYSIS*		FIELD MATRICES					
G=Grab sample C=Composite, time-paced w/AS D-T=Discrete, time-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown		BI=Biological Material OT=Other TS=Tissue		WU=Ground-Water WS=Surface Water WD=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas		FF		sample hold				Lead, 6010D		WU=Ground-Water WS=Surface Water WD=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas					
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth		Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	SAMPLER COMMENTS (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	FIELD MATRICES				
					Start (m or ft.)	End (m or ft.)													
638-B2-NW		Sample	7/1/2020	12:13	0	0.5	ft	G		SD	Soil-Surf								
638-B2-NE		Sample	7/1/2020	12:17	0	0.5	ft	G		SD	Soil-Surf								
638-B2-SW		Sample	7/1/2020	12:26	0	0.5	ft	G		SD	Soil-Surf								
638-B2-SE		Sample	7/1/2020	12:20	0	0.5	ft	G		SD	Soil-Surf								
638-B3-NW		Sample	7/1/2020	12:23	0	0.5	ft	G		SD	Soil-Surf								
638-B3-NE		Sample	7/1/2020	12:52	0	0.5	ft	G		SD	Soil-Surf								
638-B3-SW		Sample	7/1/2020	12:56	0	0.5	ft	G		SD	Soil-Surf								
638-B3-SE		Sample	7/1/2020	12:58	0	0.5	ft	G		SD	Soil-Surf								
638-B4-NW		Sample	7/1/2020	13:17	0	0.5	ft	G		SD	Soil-Surf								
638-B4-NE		Sample	7/1/2020	13:21	0	0.5	ft	G		SD	Soil-Surf								

Sticker

Eric Gabrielson

SAMPLER'S Name:*

Sampler's Name:* Eric Gabrielson.

Phone#: 952-240-8935

Billing Organization:

Landmark Environmental LLC

Acct#: 20093.01

Amplifier's Signature:*

Address:

2042 W. 98th St. Bloomington MN 55412

Sampler's Organization: Landmark Environmental, LLC

150

Receiving Comments:

Tracking#:

Delinquished By/Affiliation

Date/Time

Accented By/Affiliation

10

back

Project Managers: Micheal Ginsbach, Sherry Van Dunn, Angela Fogarty (emails shown above)

18918121

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form version 2017.0328				Work Order Number:		COC Type: Standard		Page: 5 of 6										
		* indicates a required field				Turnaround Time: <u>Real-time</u>		COC ID:		FOR LAB USE ONLY										
PROJECT/CLIENT INFO		LABORATORY																		
Facility Code: MND006148092		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis														
Project Name: 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: * PRJ08104				Address: 1700 Elm St SE														
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com						Minneapolis, MN 55414														
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN000064				Lab Work Order Sticker										
SAMPLE DETAILS																				
MN Location Identifier	Field Name	Sample Type	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED		Lab Sample No.	#
																	Field	Lab		
638-B4- ~~SW~~		Sample	7/4/2020	13:20	0.5 ft	G				SD	Soil-Surf		sample hold	1	X	Lead, 6010D			040	1
638-B4- ~~SW~~		Sample	7/4/2020	13:26	0.5 ft	G				SD	Soil-Surf		sample hold	1	X				041	2
638-A1-0.5-1		Sample	7/4/2020	10:12	1 ft	G				SD	Soil-Sub		sample hold	1	X				042	3
638-A1-1-1.5		Sample	7/4/2020	10:13	1.5 ft	G				SD	Soil-Sub		sample hold	1	X				043	4
638-A2-0.5-1		Sample	7/4/2020	10:40	0.5 ft	G				SD	Soil-Sub		sample hold	1	X				044	5
638-A2-1-1.5		Sample	7/4/2020	10:42	1.5 ft	G				SD	Soil-Sub		sample hold	1	X				045	6
638-A3-0.5-1		Sample	7/4/2020	11:06	0.5 ft	G				SD	Soil-Sub		sample hold	1	X				046	7
638-A3-1-1.5		Sample	7/4/2020	11:08	1.5 ft	G				SD	Soil-Sub		sample hold	1	X				047	8
638-A4-0.5-1		Sample	7/4/2020	11:39.5	1 ft	G				SD	Soil-Sub		sample hold	1	X				048	9
638-A4-1-1.5		Sample	7/4/2020	11:35	1.5 ft	G				SD	Soil-Sub		sample hold	1	X				049	10
Sampler's Name: Eric Gabrielson		Phone: 952-240-8935				Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acct#: 20093.01										
Sampler's Signature: *						Courier Name: Landmark Environmental, LLC		Tracking#: *												
Receiving Comments: *																				
Relinquished By/Affiliation:		Date/Time				Accepted By/Affiliation		Date/Time												
(Sampler)		7/14/20 16:46				BT-PACE		7/14/20 16:45												

Project Managers: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (emails shown above)

TZL816.8

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017.03.28		Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 6 of 6											
Facility Code: * MND006148092		PROJECT/CLIENT INFO		Turnaround Time: <u>20093.01</u>		COC ID:		FOR LAB USE ONLY											
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis		LABORATORY													
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		Address: 1700 Elm St SE															
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064				Lab Work Order Sticker											
SAMPLE DETAILS																			
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix* AIS	Field Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED		Lab Sample No.	#
																LAB MATRICES	FIELD MATRICES		
638-B1-0.5-1		Sample	7/1/2020	12:06	0.5 ft	G				SD	Soil-Sub	sample hold						050	1
638-B1-1-1.5		Sample	7/1/2020	12:07	1.5 ft	G				SD	Soil-Sub	sample hold						051	2
638-B2-0.5-1		Sample	7/1/2020	12:23	0.5 ft	G				SD	Soil-Sub	sample hold						052	3
638-B2-1-1.5		Sample	7/1/2020	12:34	1.5 ft	G				SD	Soil-Sub	sample hold						053	4
638-B3-0.5-1		Sample	7/1/2020	13:00	0.5 ft	G				SD	Soil-Sub	sample hold						054	5
638-B3-1-1.5		Sample	7/1/2020	13:11	1.5 ft	G				SD	Soil-Sub	sample hold						055	6
638-B4-0.5-1		Sample	7/1/2020	13:36	0.5 ft	G				SD	Soil-Sub	sample hold						056	7
638-B4-1-1.5		Sample	7/1/2020	13:57	1.5 ft	G				SD	Soil-Sub	sample hold						057	8
																			9
																			10

Biller's Name: * Eric Gabrielson Phone: 952-240-8935 Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St, Bloomington, MN 55431 Acc#: 20093.01		Date/Time 7/14/20 16:46 Accepted By/Affiliation [Signature] Date/Time 7/14/20 15:48	
Relinquished By/Affiliation [Signature]		Tracking#:	
Project Managers: Michael Ginsbach, Sherry Van Damm, Angela Fogarty (emails shown above)			

TZL, 8/16/8

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Page 1 of 1 Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>MPCA</u>	Project #: WO# : 10524819
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/21/20 CLIENT: LANDMARK ENV

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ Temp Blank? ☐ Yes ☒ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
☐ T4(0254) ☒ T5(0489)

Did Samples Originate in West Virginia? ☐ Yes ☒ No Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C Average Corrected Temp (no temp blank only): ☒ See Exceptions ☐ 1 Container
 Correction Factor: True Cooler Temp Corrected w/temp blank: _____ °C 16.8 °C

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: RHL 7/14/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No <u>N/A</u>	3. <u>RHL 7/14/20</u>
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No <u>RHL 7-14-20</u>	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6. <u>rush</u>
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☒ No See Exception ☐ Chlorine? ☐ Yes ☒ No pH Paper Lot# ☐
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 7/15/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

July 20, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10524818

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory between July 14, 2020 and July 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524818001	642-A1	Solid	07/14/20 14:02	07/14/20 18:07
10524818002	642-A2	Solid	07/14/20 14:59	07/14/20 16:46
10524818003	642-A3	Solid	07/14/20 15:21	07/14/20 16:46
10524818004	642-A4	Solid	07/14/20 15:45	07/14/20 16:46
10524818005	M2	Solid	07/14/20 14:59	07/14/20 16:46
10524818006	642-A1-NW	Solid	07/14/20 13:52	07/14/20 16:46
10524818007	642-A1-NE	Solid	07/14/20 13:56	07/14/20 16:46
10524818008	642-A1-SW	Solid	07/14/20 14:02	07/14/20 16:46
10524818009	642-A1-SE	Solid	07/14/20 13:59	07/14/20 16:46
10524818010	642-A2-NW	Solid	07/14/20 14:46	07/14/20 16:46
10524818011	642-A2-NE	Solid	07/14/20 14:49	07/14/20 16:46
10524818012	642-A2-SW	Solid	07/14/20 14:55	07/14/20 16:46
10524818013	642-A2-SE	Solid	07/14/20 14:53	07/14/20 16:46
10524818014	642-A3-NW	Solid	07/14/20 15:10	07/14/20 16:46
10524818015	642-A3-NE	Solid	07/14/20 15:13	07/14/20 16:46
10524818016	642-A3-SW	Solid	07/14/20 15:20	07/14/20 16:46
10524818017	642-A3-SE	Solid	07/14/20 15:17	07/14/20 16:46
10524818018	642-A4-NW	Solid	07/14/20 15:33	07/14/20 16:46
10524818019	642-A4-NE	Solid	07/14/20 15:36	07/14/20 16:46
10524818020	642-A4-SW	Solid	07/14/20 15:43	07/14/20 16:46
10524818021	642-A4-SE	Solid	07/14/20 15:39	07/14/20 16:46
10524818022	642-A1-0.5-1	Solid	07/14/20 14:12	07/14/20 16:46
10524818023	642-A1-1-1.5	Solid	07/14/20 14:14	07/14/20 16:46
10524818024	642-A2-0.5-1	Solid	07/14/20 15:02	07/14/20 16:46
10524818025	642-A2-1-1.5	Solid	07/14/20 15:02	07/14/20 16:46
10524818026	642-A3-0.5-1	Solid	07/14/20 15:25	07/14/20 16:46
10524818027	642-A3-1-1.5	Solid	07/14/20 15:27	07/14/20 16:46
10524818028	642-A4-0.5-1	Solid	07/14/20 15:48	07/14/20 16:46
10524818029	642-A4-1-1.5	Solid	07/14/20 15:50	07/14/20 16:46
10524818030	642-B1	Solid	07/15/20 08:36	07/15/20 16:51
10524818031	642-B2	Solid	07/15/20 08:58	07/15/20 16:51
10524818032	642-B3	Solid	07/15/20 09:22	07/15/20 16:51
10524818033	642-B4	Solid	07/15/20 09:42	07/15/20 16:51
10524818034	642-B1-NW	Solid	07/15/20 08:20	07/15/20 16:51
10524818035	642-B1-NE	Solid	07/15/20 08:28	07/15/20 16:51
10524818036	642-B1-SW	Solid	07/15/20 08:35	07/15/20 16:51
10524818037	642-B1-SE	Solid	07/15/20 08:31	07/15/20 16:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10524818038	642-B2-NW	Solid	07/15/20 08:46	07/15/20 16:51
10524818039	642-B2-NE	Solid	07/15/20 08:51	07/15/20 16:51
10524818040	642-B2-SE	Solid	07/15/20 08:53	07/15/20 16:51
10524818041	642-B2-SW	Solid	07/15/20 08:56	07/15/20 16:51
10524818042	642-B3-NW	Solid	07/15/20 09:11	07/15/20 16:51
10524818043	642-B3-NE	Solid	07/15/20 09:14	07/15/20 16:51
10524818044	642-B3-SW	Solid	07/15/20 09:19	07/15/20 16:51
10524818045	642-B3-SE	Solid	07/15/20 09:17	07/15/20 16:51
10524818046	642-B4-NW	Solid	07/15/20 09:32	07/15/20 16:51
10524818047	642-B4-NE	Solid	07/15/20 09:35	07/15/20 16:51
10524818048	642-B4-SW	Solid	07/15/20 09:40	07/15/20 16:51
10524818049	642-B4-SE	Solid	07/15/20 09:38	07/15/20 16:51
10524818057	642-B4-1-1.5	Solid	07/15/20 09:47	07/15/20 16:51

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10524818001	642-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818002	642-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818003	642-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818004	642-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818005	M2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818030	642-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818031	642-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818032	642-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10524818033	642-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-A1 **Lab ID: 10524818001** Collected: 07/14/20 14:02 Received: 07/14/20 18:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	153	mg/kg	0.57	0.13	1	07/15/20 08:06	07/15/20 14:44	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.8	%	0.10	0.10	1		07/15/20 13:59		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-A2 **Lab ID: 10524818002** Collected: 07/14/20 14:59 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	67.8	mg/kg	0.59	0.13	1	07/15/20 08:06	07/15/20 14:12	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.9	%	0.10	0.10	1		07/15/20 11:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-A3 **Lab ID: 10524818003** Collected: 07/14/20 15:21 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	83.3	mg/kg	0.59	0.13	1	07/15/20 08:06	07/15/20 14:20	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.3	%	0.10	0.10	1		07/15/20 11:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-A4 **Lab ID: 10524818004** Collected: 07/14/20 15:45 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	70.4	mg/kg	0.55	0.12	1	07/15/20 08:06	07/15/20 14:22	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.1	%	0.10	0.10	1		07/15/20 11:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: M2 **Lab ID: 10524818005** Collected: 07/14/20 14:59 Received: 07/14/20 16:46 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	93.5	mg/kg	0.58	0.13	1	07/16/20 11:50	07/17/20 10:10	7439-92-1	M1
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	19.0	%	0.10	0.10	1		07/15/20 11:58		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-B1 **Lab ID: 10524818030** Collected: 07/15/20 08:36 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	33.3	mg/kg	0.52	0.12	1	07/16/20 11:50	07/17/20 10:18	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	10.5	%	0.10	0.10	1		07/16/20 11:51		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-B2 **Lab ID: 10524818031** Collected: 07/15/20 08:58 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	20.7	mg/kg	0.56	0.13	1	07/16/20 11:50	07/17/20 10:20	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	10.9	%	0.10	0.10	1		07/16/20 11:51		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-B3 **Lab ID: 10524818032** Collected: 07/15/20 09:22 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	24.5	mg/kg	0.55	0.12	1	07/16/20 11:50	07/17/20 10:22	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.5	%	0.10	0.10	1		07/16/20 11:52		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Sample: 642-B4 **Lab ID: 10524818033** Collected: 07/15/20 09:42 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.1	mg/kg	0.55	0.12	1	07/16/20 11:50	07/17/20 10:28	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	9.8	%	0.10	0.10	1		07/16/20 11:52		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

QC Batch: 686858

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524818001, 10524818002, 10524818003, 10524818004

METHOD BLANK: 3673033

Matrix: Solid

Associated Lab Samples: 10524818001, 10524818002, 10524818003, 10524818004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.46	0.46	0.10	07/15/20 14:09	

LABORATORY CONTROL SAMPLE: 3673034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49.5	51.3	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3673035 3673036

Parameter	Units	10524818002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	67.8	61.9	61.3	120	133	84	106	75-125	10	20	

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

QC Batch: 687118

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524818005, 10524818030, 10524818031, 10524818032, 10524818033

METHOD BLANK: 3674512

Matrix: Solid

Associated Lab Samples: 10524818005, 10524818030, 10524818031, 10524818032, 10524818033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.50	0.50	0.11	07/17/20 10:06	

LABORATORY CONTROL SAMPLE: 3674513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	50.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674514 3674515

Parameter	Units	10524818005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	93.5	57.2	56.2	133	136	69	76	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

QC Batch:	686924	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524818002, 10524818003, 10524818004, 10524818005

SAMPLE DUPLICATE: 3673235

Parameter	Units	10525434001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	7.3	16	30	N2

SAMPLE DUPLICATE: 3673236

Parameter	Units	10524941001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.7	16.4	1	30	N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

QC Batch: 687020

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524818001

SAMPLE DUPLICATE: 3673658

Parameter	Units	10524819001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.3	17.4	10	30	N2

SAMPLE DUPLICATE: 3673675

Parameter	Units	10524814003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.0	5.0	1	30	N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

QC Batch:	687219	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10524818030, 10524818031, 10524818032, 10524818033

SAMPLE DUPLICATE: 3675006

Parameter	Units	10525025001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	7.1	2	30	N2

SAMPLE DUPLICATE: 3675007

Parameter	Units	10525011006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.6	15.0	5	30	N2

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10524818

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10524818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10524818001	642-A1	EPA 3050B	686858	EPA 6010D	686991
10524818002	642-A2	EPA 3050B	686858	EPA 6010D	686991
10524818003	642-A3	EPA 3050B	686858	EPA 6010D	686991
10524818004	642-A4	EPA 3050B	686858	EPA 6010D	686991
10524818005	M2	EPA 3050B	687118	EPA 6010D	687444
10524818030	642-B1	EPA 3050B	687118	EPA 6010D	687444
10524818031	642-B2	EPA 3050B	687118	EPA 6010D	687444
10524818032	642-B3	EPA 3050B	687118	EPA 6010D	687444
10524818033	642-B4	EPA 3050B	687118	EPA 6010D	687444
10524818001	642-A1	ASTM D2974	687020		
10524818002	642-A2	ASTM D2974	686924		
10524818003	642-A3	ASTM D2974	686924		
10524818004	642-A4	ASTM D2974	686924		
10524818005	M2	ASTM D2974	686924		
10524818030	642-B1	ASTM D2974	687219		
10524818031	642-B2	ASTM D2974	687219		
10524818032	642-B3	ASTM D2974	687219		
10524818033	642-B4	ASTM D2974	687219		

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WO#: 10524818



10524818

	MPCA Chain-of-Custody Form revision 2017/02/28 * indicates a required field		Work Order Number: Turnaround Time: Rush 3 day	COC Type: Standard COC ID:	Page:
	PROJECT/CLIENT INFO Facility Code: * MND006148092 Project Name: * 3344 Highway 149 Adjacent Property, Eagan Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com Potential Hazard? N If yes, add information to Sampler Comments field		LABORATORY Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414 EPA Lab ID: * MN00064		

SAMPLE DETAILS																ANALYSIS REQUESTED									
SAMPLING METHODS			LAB MATRICES			FIELD MATRICES			PRESERV.			ANALYSIS*			HOLD										
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth		Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix* AIS	Field Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	HOLD									
					Start (m or ft.)	End																			
642-A1		Sample	7/14/2020	14:02	0	0.5 ft	CO			SD	Soil-Surf			1											
642-A2		Sample	7/14/2020	14:59	0	0.5 ft	CO			SD	Soil-Surf			1											
642-A3		Sample	7/14/2020	15:21	0	0.5 ft	CO			SD	Soil-Surf			1											
642-A4		Sample	7/14/2020	15:45	0	0.5 ft	CO			SD	Soil-Surf			1											
642-B1		Sample	7/17/2020		0	0.5 ft	CO			SD	Soil-Surf			1											
642-B2		Sample	7/17/2020		0	0.5 ft	CO			SD	Soil-Surf			1											
642-B3		Sample	7/17/2020		0	0.5 ft	CO			SD	Soil-Surf			1											
642-B4		Sample	7/17/2020		0	0.5 ft	CO			SD	Soil-Surf			1											
M2		Sample	7/14/2020	15:00	0	0.5 ft	CO			SD	Soil-Surf														

Sampler's Name: Eric Gabrielson	Phone#: 952-240-8935	Billing Organization: Landmark Environmental, LLC	Acct#: 20093.01
Sampler's Signature: 	Address: 2042 W. 98th St., Bloomington, MN 55431	Tracking#:	Date/Time 7/14/20 16:46
Sampler's Organization: Landmark	Courier Name:	Accepted By/Affiliation J.T. P. ACO	Date/Time 7/14/20 15:08
Receiving Comments:	Relinquished By/Affiliation J.M.	Date/Time 7/14/20 16:46	Date/Time 7/14/20 15:08

 Minnesota Pollution Control Agency	MPCA Chain-of-Custody Form revision 2017.03.28 * indicates a required field										Work Order Number:		COC Type: Standard		Page: 2 of 6				
	PROJECT/CLIENT INFO										Turnaround Time: <u>Rush 3 day</u>				COC ID:		FOR LAB USE ONLY		
Facility Code: * MND006148092										Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis							
Project Name: * 3344 Highway 149 Adjacent Property, Eagan										Project Task Code: * PRJ08104		Address: 1700 Elm St SE							
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com										Minneapolis, MN 55414									
Potential Hazard? N										If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064							
SAMPLE TYPES										ANALYSIS REQUESTED									
SAMPLING METHODS										LAB MATRICES									
Sample=Routine Sample QC-FB=Field Blank Sample QC-FR=Field Replicate Sample QC-TB=Trip Blank Sample QC-EB=Equipment Blank Treated-Mid=Treatment system sample Treated-Post=Treatment system sample										BL=Biological Material DW=Drinking Water NW=Nonpotable Water SD=Soil/Solid AR=Air									
SAMPLING METHODS										FIELD MATRICES									
CT=Composite, time-paced w/AS CF=Composite w/AS D-T=Discrete, time-paced w/AS D-F=Discrete, flow-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown										Wtr-Ground=Groundwater Wtr-Surf=Surface Water Wtr-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas									
Depth										Complete ONLY if Method is CT, CF, D-T, or D-F									
Start										End									
Start Time* 24 hr (hh:mm)										End Time 24 hr (hh:mm)									
Start										End									
Units (m or ft.)										Units (m or ft.)									
Sampling Method*										Sampling Method*									
End Date (mm/dd/yyyy)										End Date (mm/dd/yyyy)									
Lab Matrix*										Lab Matrix*									
Field Matrix*										Field Matrix*									
AIS										AIS									
Sampler Comments (filter volume, special handling, etc.)										Sampler Comments (filter volume, special handling, etc.)									
# of Cont										# of Cont									
ANALYSIS*										ANALYSIS*									
Lead, 6010D										Lead, 6010D									
HOLD										HOLD									
Lab Sample No.										Lab Sample No.									
#										#									
642-A1-NW										642-A1-NW									
Sample										Sample									
7/1/2020 13:52										7/1/2020 13:52									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
0.6										0.6									
1										1									
642-A1-NE										642-A1-NE									
Sample										Sample									
7/1/2020 13:56										7/1/2020 13:56									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
0.7										0.7									
2										2									
642-A1-SW										642-A1-SW									
Sample										Sample									
7/1/2020 14:02										7/1/2020 14:02									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
0.8										0.8									
3										3									
642-A1-SE										642-A1-SE									
Sample										Sample									
7/1/2020 13:59										7/1/2020 13:59									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
0.9										0.9									
4										4									
642-A2-NW										642-A2-NW									
Sample										Sample									
7/1/2020 14:46										7/1/2020 14:46									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
1.0										1.0									
5										5									
642-A2-NE										642-A2-NE									
Sample										Sample									
7/1/2020 14:49										7/1/2020 14:49									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
0.1										0.1									
6										6									
642-A2-SW										642-A2-SW									
Sample										Sample									
7/1/2020 14:55										7/1/2020 14:55									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD										SD									
Soil-Surf										Soil-Surf									
Sample hold										Sample hold									
1										1									
0.2										0.2									
7										7									
642-A2-SE										642-A2-SE									
Sample										Sample									
7/1/2020 14:53										7/1/2020 14:53									
0										0									
0.5										0.5									
ft										ft									
G										G									
SD</																			

$t = 1.8, 16.8$

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017.0328				Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 3 of 6						
		* indicates a required field				Turnaround Time: <u>Next Day</u>		COC ID:		FOR LAB USE ONLY						
PROJECT/CLIENT INFO		LABORATORY														
Facility Code: * MND006148092		Lab Name: Pace Analytical - Minneapolis														
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Address: 1700 Elm St SE														
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopierresource.com		Minneapolis, MN 55414														
Potential Hazard? N		EPA Lab ID: * MN000064														
If yes, add information to Sampler Comments field																
Lab Work Order Sticker																
SAMPLE DETAILS																
MN Location Identifier*	SAMPLING METHODS SC=Grab sample CF=Composite, time-paced w/AS CF=Composite w/AS D-T=Discrete, time-paced w/AS D-F=Discrete, flow-paced w/AS SW-QAS=Gas Sampling Unknown=Unknown	LAB MATRICES DW=Drinking Water NW=Nonpotable Water SD=Soil/Solid AE=Air	Depth Units (m or ft)	Start Time* (mm/dd/yyyy)	End Time (mm/dd/yyyy)	Sampling Method*	End Date (mm/dd/yyyy)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix* SD Soil-Surf	Field Matrix* AIS	FIELD MATRICES Wt-Ground=Groundwater Wt-Surf=Surface Water Wt-Drnk=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas	PRESERV.	ANALYSIS*	# of Cont	Sampler Comments (filter volume, special handling, etc.)	Lab Sample No.
642-A3-SW	Sample	7/1/2020 15:20	0	0.5 ft	G				SD	Soil-Surf			Lead, 6010D	1	016	1
642-A3-SE	Sample	7/1/2020 15:17	0	0.5 ft	G				SD	Soil-Surf				1	017	2
642-A4-NW	Sample	7/1/2020 15:33	0	0.5 ft	G				SD	Soil-Surf				1	018	3
642-A4-NE	Sample	7/1/2020 15:36	0	0.5 ft	G				SD	Soil-Surf				1	019	4
642-A4-SW	Sample	7/1/2020 15:43	0	0.5 ft	G				SD	Soil-Surf				1	020	5
642-A4-SE	Sample	7/1/2020 15:39	0	0.5 ft	G				SD	Soil-Surf				1	021	6
642-B1-NW	Sample	7/1/2020	0	0.5 ft	G				SD	Soil-Surf				1		7
642-B1-NE	Sample	7/1/2020	0	0.5 ft	G				SD	Soil-Surf				1		8
642-B1-SW	Sample	7/1/2020	0	0.5 ft	G				SD	Soil-Surf				1		9
642-B1-SE	Sample	7/1/2020	0	0.5 ft	G				SD	Soil-Surf				1		10
Sampler's Name: * Eric Gabrielson		Phone #: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acc #: 20093.01								
Sampler's Signature: *				Courier Name: Landmark Environmental, LLC		Tracking #:										
Receiving Comments:																
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time										
(Sampler) <i>and</i>		7/14/2020 16:46		VJ-PACE		7/14/2020 16:48										

72 18 16/8

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form

revised 2017.03.28

* indicates a required field

Work Order Number: **20093.01**

COC Type: Standard

Page: 5 of 6

Facility Code: **MND0006148092**

Project Name: **3344 Highway 149 Adjacent Property, Eagan**

Project Manager: **michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N**

Program Code (MDH Lab Only): **MDH08104**

Project Task Code: **PRJ08104**

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: **MN00064**

SAMPLE TYPES

Sample-Routine Sample

QC-FB-Field Blank Sample

QC-FR-Field Replicate Sample

QC-TB-Trip Blank Sample

QC-EB-Equipment Blank

Treated-Mid-Treatment system sample

Treated-Post-Treatment system sample

SAMPLE METHODS

G-Grab sample

CT-Composite, time-paced w/AS

CF-Composite w/AS

D-F-Direct, time-paced w/AS

D-F-Direct, flow-paced w/AS

SW-GAS-Gas Sampling

Unknown-Unknown

LAB MATRICES

DW-Drinking Water

NW-Nonpotable Water

SD-Soil Solid

AF-Air

Depth

Start (ft)

End (ft)

Units (m or ft)

SAMPLING

Sample Type*

Start Date* (mm/dd/yyyy)

Start Time* (hh:mm)

End Date (mm/dd/yyyy)

End Time (hh:mm)

Sampling Method*

LAB MATRICES

BL-Biological Material

OT-Other

TS-Tissue

FIELD MATRICES

Wt-Ground-Groundwater

Wt-Surf-Surface Water

Wt-Drink-Drinking Water

QC-BLANK-Artificial Blank Water

Leachate-Leachate Sample

Air-Indoor-Indoor Air

Gas-Soil-Soil Gas

ANALYSIS REQUESTED

ANALYSIS*

of Cont

Sampler Comments (filter volume, special handling, etc.)

FF PRESERV.

MIN Location Identifier*

642-B4-NW

642-B4-NE

642-A1-0.5-1

642-A1-1-1.5

642-A2-0.5-1

642-A2-1-1.5

642-A3-0.5-1

642-A3-1-1.5

642-A4-0.5-1

642-A4-1-1.5

Lab Sample No.

1

2

3

4

5

6

7

8

9

10

Samplers Name: Eric Gabrielson

Samplers Signature:

Samplers Organization: Landmark Environmental, LLC

Billing Organization: Landmark Environmental, LLC

Address: 2042 W. 98th St., Bloomington, MN 55431

Phone#: 952-240-8935

Courier Name:

Tracking#:

Relinquished By/Affiliation

Accepted By/Affiliation

Date/Time

Date/Time

Relinquished By/Affiliation

Accepted By/Affiliation

Date/Time

Date/Time

Project Managers: Michael Ginsbach, Sherry Van Duun, Angela Fogarty (emails shown above)

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T = 1,816.8

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>MPCA</u>	Project #: WO# : 10524818
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/21/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ Temp Blank? ☐ Yes ☒ No
 Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
☐ T4(0254) ☒ T5(0489)

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C	Average Corrected Temp (no temp blank only): ☒ See Exceptions ☐ 1 Container
Correction Factor: <u>True</u> Cooler Temp Corrected w/temp blank: _____ °C	<u>16.8</u> °C

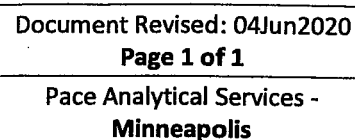
USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: RHL 7/14/20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☒ N/A	3. <u>RHL 7/14/20</u>
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes ☒ No	6.
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No pH Paper Lot# ☐ See Exception
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased):
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Anna Asp Date: 7/15/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: Chloé Lintz Page 26 of 35

**Workorder #:**[illegible]

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

WO#: 10524818



10524818

		MPCA Chain-of-Custody Form revision 2017/0228 * indicates a required field				Work Order Number: Rush 3 day		COC Type: Standard	
Facility Code: MND006148092		PROJECT/CLIENT INFO				LABORATORY		COC ID:	
Project Name: 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE	
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: PRJ08104				Minneapolis, MN 55414			
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: MN00064			

SAMPLE DETAILS										ANALYSIS REQUESTED									
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (in or ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix* AIS	Field Matrix* AIS	FIELD MATRICES		ANALYSIS*	# of Cont	Sample No.	#			
											LAB MATRICES	BI-BIOLOGICAL MATERIAL							
											SW-GAS=Gas Sampling Unknown=Unknown	SW-GAS=Gas Sampling Unknown=Unknown							
		Sample	7/1/2020									Wt-Surf=Surface Water				1			
		Sample	7/1/2020									Wt-Surf=Surface Water				2			
		Sample	7/1/2020									Wt-Surf=Surface Water				3			
		Sample	7/1/2020									Wt-Surf=Surface Water				4			
642-B1		Sample	7/5/2020 8:30		0.5 ft	CO			SD	Soil-Surf		QC-BLANK=Artificial Blank Water	Lead, 6010D		030	5			
642-B2		Sample	7/5/2020 8:58		0.5 ft	CO			SD	Soil-Surf		QC-BLANK=Artificial Blank Water			031	6			
642-B3		Sample	7/5/2020 9:22		0.5 ft	CO			SD	Soil-Surf		QC-BLANK=Artificial Blank Water			032	7			
642-B4		Sample	7/5/2020 9:42		0.5 ft	CO			SD	Soil-Surf		QC-BLANK=Artificial Blank Water			033	8			
																9			
																10			

Sampler's Name: Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acc#: 20093.01	
Sampler's Signature:		Address: 2042 W. 98th St., Bloomington, MN 55431					
Sampler's Organization:		Courier Name:		Tracking#:			

Receiving Comments:		Date/Time	
Relinquished By/Affiliation		Accepted By/Affiliation	
(Sampler)		(Accepted)	

10.3, 29, 14.1

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 3 of 6						
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: ~~2 days~~		COC ID:		FOR LAB USE ONLY						
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		LABORATORY								
Project Manager: michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Address: 1700 Elm St SE		Minneapolis, MN 55414		Lab Work Order Sticker						
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN000064										
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED								
Sample-Routine Sample	G-Grab sample	CT-Composite, time-paced w/AS	DW-Drinking Water	BI-Biological Material	WF-Ground-Groundwater	WF-Surf-Surface Water	WF-Drink-Drinking Water	QC-BLANK-Artificial Blank Water	Leachate-Leachate Sample	Air-Indoor-Indoor Air	Gas-Soil-Soil Gas					
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CF-Composite w/AS	NW-Non-potable Water	OT-Other	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water					
QC-FR-Field Replicate Sample	CT-Composite, time-paced w/AS	D-T-Duplicate, time-paced w/AS	SD-Soil/Solid	TS-Tissue	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water					
QC-TB-Trip Blank Sample	D-T-Duplicate, time-paced w/AS	D-F-Duplicate, flow-paced w/AS	AS-Air		QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water					
QC-EB-Equipment Blank	SW-GAS-Gas Sampling	Unknown-Unknown			QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water					
Treated-Mid-Treatment system sample																
Treated-Post-Treatment system sample																
MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (m or ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PREP.	Lab Sample No.	#
642-B1-NW	Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf							1
642-B1-NE	Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf							2
642-B1-SW	Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf							3
642-B1-SE	Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf							4
	Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf							5
	Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf							6
	Sample	7/1/2020	8:10	0.5 ft	G			SD	Soil-Surf		Sample hold	1				7
	Sample	7/1/2020	8:18	0.5 ft	G			SD	Soil-Surf		Sample hold	1				8
	Sample	7/1/2020	8:35	0.5 ft	G			SD	Soil-Surf		Sample hold	1				9
	Sample	7/1/2020	8:31	0.5 ft	G			SD	Soil-Surf		Sample hold	1				10
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acc#: 20093.01								
Sampler's Signature: *				Courier Name: Landmark Environmental, LLC		Tracking#:										
Sampler's Organization: Landmark Environmental, LLC				Accepted By/Affiliation: <i>mke k Pace</i>		Date/Time: 7/15/2020 16:48										
Receiving Comments:				Accepted By/Affiliation: <i>mke k Pace</i>		Date/Time: 7/15/2020 16:48										
Relinquished By/Affiliation: <i>mke k Pace</i>				Accepted By/Affiliation: <i>mke k Pace</i>		Date/Time: 7/15/2020 16:48										
(Sampler)				Accepted By/Affiliation: <i>mke k Pace</i>		Date/Time: 7/15/2020 16:48										

10.3, 29, 14.1

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017/02/28				Work Order Number:		COC Type: Standard		Page: 5 of 6				
Facility Code:*		PROJECT/CLIENT INFO				Turnaround Time: ~~Post-Test~~		COC ID:		FOR LAB USE ONLY				
MND006148092		Program Code (MDH Lab Only):				LABORATORY								
Project Name:*		3344 Highway 149 Adjacent Property, Eagan				Lab Name: Pace Analytical - Minneapolis								
Project Manager:		michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@sopherresource.com				Address: 1700 Elm St SE								
Potential Hazard?		N				EPA Lab ID: MN00064				Lab Work Order Sticker				
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED						
Sample-Routine Sample	G-Grab sample	CT-Composite, time-paced w/AS	DW=Drinking Water	BI-Biological Material	Wt-Ground-Groundwater									
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite w/AS	NW=Nonpotable Water	OT=Other	Wt-Surf-Surface Water									
QC-FR-Field Replicate Sample	D-T=Discrete, time-paced w/AS	D-T=Discrete, time-paced w/AS	SD=Soil/Solid	TTS=Tissue	Wt-Surf-Drinking Water									
QC-TB-Trip Blank Sample	D-T=Discrete, time-paced w/AS	D-T=Discrete, time-paced w/AS	AR=Air		QC-BLANK-Artificial Blank Water									
QC-EB-Equipment Blank	SW-GAS-Gas Sampling	SW-GAS-Gas Sampling			Leachate-Leachate Sample									
Treated-Mid-Treatment system sample	Unknown=Unknown				Air-Indoor-Indoor Air									
Treated-Post-Treatment system sample					Gas-Soil-Soil Gas									
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (in or ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS* PRESEV.	Lab Sample No.
642-B4-MW SW		Sample	7/15/2020	0:40	0.5 ft	G			SD	Soil-Surf	sample hold		FF	488
642-B4-MW SE		Sample	7/15/2020	0:30	0.5 ft	G			SD	Soil-Surf	sample hold		FF	649
		Sample	7/1/2020						SD	Soil-Sub				1
		Sample	7/1/2020						SD	Soil-Sub				2
		Sample	7/1/2020						SD	Soil-Sub				3
		Sample	7/1/2020						SD	Soil-Sub				4
		Sample	7/1/2020						SD	Soil-Sub				5
		Sample	7/1/2020						SD	Soil-Sub				6
		Sample	7/1/2020						SD	Soil-Sub				7
		Sample	7/1/2020						SD	Soil-Sub				8
		Sample	7/1/2020						SD	Soil-Sub				9
		Sample	7/1/2020						SD	Soil-Sub				10
Sampler's Name:*		Eric Gabrielson		Phone#: 952-240-8935		Billing Organization:		Landmark Environmental, LLC		Acc#: 20093 01				
Sampler's Signature:*						Address:		2042 W. 98th St., Bloomington, MN 55431						
Sampler's Organization:		Landmark Environmental, LLC				Courier Name:				Tracking#:				
Receiving Comments:						Date/Time		Accepted By/Affiliation		Date/Time				
Relinquished By/Affiliation		mw		7/15/2020 16:49		mw		7/15/2020 16:51						

10.3, 29, 14.1

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 6 of 6	
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: <u>2-3 days</u>		COC ID:		FOR LAB USE ONLY	
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		COC ID:		FOR LAB USE ONLY	
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Address: 1700 Elm St SE		COC ID:		FOR LAB USE ONLY	
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064		COC ID:		FOR LAB USE ONLY	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		SAMPLE DETAILS		FIELD MATRICES		ANALYSIS REQUESTED	
Sample-Routine Sample	G-Grab sample	DW-Drinking Water	BL-Biological Material	OT-Other	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	NW-Nonpotable Water	OT-Other	TS-Tissue	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
QC-FB-Field Replicate Sample	CT-Composite w/AS	SD-Soil/Solid	OT-Other	TS-Tissue	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
QC-FB-Trip Blank Sample	D-T-Discrete, time-paced w/AS	AR-Air	OT-Other	TS-Tissue	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
QC-FB-Equipment Blank	D-F-Discrete, flow-paced w/AS	AR-Air	OT-Other	TS-Tissue	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
QC-FB-Treatment system sample	SW-GAS-Gas Sampling	AR-Air	OT-Other	TS-Tissue	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
Treated-Mid-Treatment system sample	Unknown=Unknown	AR-Air	OT-Other	TS-Tissue	TS-Tissue	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water	Wt-Surface Water
MN Location Identifier*		Sample Type*		Start Date* (mm/dd/yyyy)		End Date* (mm/dd/yyyy)		Sampling Method*		Field Matrix*	
642-B1-0.5-1	Sample	7/15/2020	8:43	0.5	1	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B1-1.1-1.5	Sample	7/15/2020	8:45	1	1.5	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B2-0.5-1	Sample	7/15/2020	9:03	0.5	1	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B2-1.1-1.5	Sample	7/15/2020	9:05	1	1.5	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B3-0.5-1	Sample	7/15/2020	9:23	0.5	1	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B3-1.1-1.5	Sample	7/15/2020	9:24	1	1.5	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B4-0.5-1	Sample	7/15/2020	9:44	0.5	1	ft	G	SD	Soil-Sub	sample hold	sample hold
642-B4-1.1-1.5	Sample	7/15/2020	9:47	1	1.5	ft	G	SD	Soil-Sub	sample hold	sample hold
Sampler's Name: * Eric Gabrielson		Phone: * 952-240-8935		Billing Organization: * Landmark Environmental, LLC		Address: * 2042 W. 98th St., Bloomington, MN 55431		Acc#: 20093.01		Tracking#:	
Sampler's Signature: *		Landmark Environmental, LLC		Date/Time: 7/15/2020 10:49		Accepted By/Affiliation: MPE K Pace		Date/Time: 7/15/2020 16:51		Date/Time: 7/15/2020 16:51	
Receiving Comments:		Relinquished By/Affiliation:		Date/Time:		Accepted By/Affiliation:		Date/Time:		Date/Time:	

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Page 1 of 1 Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt

Client Name:

MPCA

Project #

WO#: 10524818

PM: AKA

Due Date: 07/17/20

CLIENT: LANDMARK ENV

Courier:

☐ Fed Ex ☐ UPS ☐ USPS ☒ Client
☐ Pace ☐ SpeedDee ☐ Commercial See Exceptions

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____ Temp Blank? ☐ Yes ☒ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
☐ T4(0254) ☒ T5(0489)

Did Samples Originate in West Virginia? ☐ Yes ☒ No Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C Average Corrected Temp (no temp blank only): ☒ See Exceptions
 Correction Factor: *TME* Cooler Temp Corrected w/temp blank: _____ °C *24.19/10.3c* ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: *MKL 7-15-20*
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6. <i>RUSH</i>
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No pH Paper Lot# ☐ See Exception
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Field Data Required? ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review:

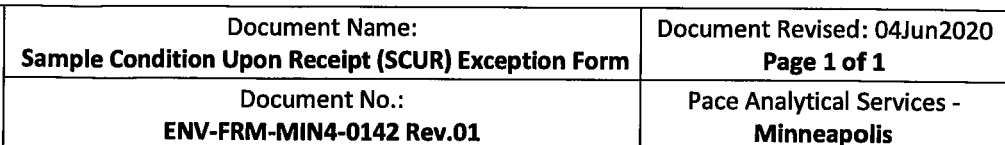
Anna Asp

Date: 7/17/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:

Chito

**Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☒ No												
			If yes, indicate who was contacted/date/time. If no, indicate reason why. <i>Same Day Arrival</i>												
			Multiple Cooler Project? ☐ Yes ☐ No If you answered yes, fill out information to the left.												
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>11.3</td> <td rowspan="4">Five</td> <td>10.3</td> </tr> <tr> <td>10.1</td> </tr> <tr> <td>11.0</td> </tr> <tr> <td>8.6</td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	11.3	Five	10.3	10.1	11.0	8.6
No Temp Blank															
Read Temp	Corrected Temp	Average Temp													
11.3	Five	10.3													
10.1															
11.0															
8.6															

[illegible][illegible]

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 20, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525011

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525011001	646-A1	Solid	07/15/20 10:10	07/15/20 16:51
10525011002	646-A2	Solid	07/15/20 10:23	07/15/20 16:51
10525011003	646-A3	Solid	07/15/20 10:46	07/15/20 16:51
10525011004	646-A4	Solid	07/15/20 11:13	07/15/20 16:51
10525011005	646-B1	Solid	07/15/20 11:28	07/15/20 16:51
10525011006	646-B2	Solid	07/15/20 11:43	07/15/20 16:51
10525011007	646-B3	Solid	07/15/20 12:08	07/15/20 16:51
10525011008	646-B4	Solid	07/15/20 00:00	07/15/20 16:51
10525011009	M-3	Solid	07/15/20 10:48	07/15/20 16:51
10525011013	646-A1-SE	Solid	07/15/20 10:06	07/15/20 16:51
10525011014	646-A2-NW	Solid	07/15/20 10:16	07/15/20 16:51
10525011015	646-A2-NE	Solid	07/15/20 10:17	07/15/20 16:51
10525011016	646-A2-SW	Solid	07/15/20 10:23	07/15/20 16:51
10525011017	646-A2-SE	Solid	07/15/20 10:19	07/15/20 16:51
10525011018	646-A3-NW	Solid	07/15/20 10:37	07/15/20 16:51
10525011019	646-A3-NE	Solid	07/15/20 10:38	07/15/20 16:51
10525011020	646-A3-SW	Solid	07/15/20 10:45	07/15/20 16:51
10525011021	646-A3-SE	Solid	07/15/20 10:40	07/15/20 16:51
10525011022	646-A4-NW	Solid	07/15/20 11:03	07/15/20 16:51
10525011023	646-A4-NE	Solid	07/15/20 11:05	07/15/20 16:51
10525011024	646-A4-SW	Solid	07/15/20 11:04	07/15/20 16:51
10525011025	646-A4-SE	Solid	07/15/20 11:08	07/15/20 16:51
10525011026	646-B1-NW	Solid	07/15/20 11:19	07/15/20 16:51
10525011027	646-B1-NE	Solid	07/15/20 11:21	07/15/20 16:51
10525011028	646-B1-SW	Solid	07/15/20 11:26	07/15/20 16:51
10525011029	646-B1-SE	Solid	07/15/20 11:24	07/15/20 16:51
10525011030	646-B2-NW	Solid	07/15/20 11:35	07/15/20 16:51
10525011031	646-B2-NE	Solid	07/15/20 11:37	07/15/20 16:51
10525011032	646-B2-SW	Solid	07/15/20 11:40	07/15/20 16:51
10525011033	646-B2-SE	Solid	07/15/20 11:38	07/15/20 16:51
10525011034	646-B3-NW	Solid	07/15/20 11:59	07/15/20 16:51
10525011035	646-B3-NE	Solid	07/15/20 12:03	07/15/20 16:51
10525011036	646-B3-SW	Solid	07/15/20 12:04	07/15/20 16:51
10525011037	646-B3-SE	Solid	07/15/20 12:07	07/15/20 16:51
10525011038	646-B4-NW	Solid	07/15/20 12:14	07/15/20 16:51
10525011039	646-B4-NE	Solid	07/15/20 12:17	07/15/20 16:51
10525011040	646-B4-SW	Solid	07/15/20 12:23	07/15/20 16:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525011041	646-B4-SE	Solid	07/15/20 12:20	07/15/20 16:51
10525011042	646-A1-0.5-1	Solid	07/15/20 10:12	07/15/20 16:51
10525011043	646-A1-1-1.5	Solid	07/15/20 10:13	07/15/20 16:51
10525011044	646-A2-0.5-1	Solid	07/15/20 10:31	07/15/20 16:51
10525011045	646-A2-1-1.5	Solid	07/15/20 10:33	07/15/20 16:51
10525011046	646-A3-0.5-1	Solid	07/15/20 10:58	07/15/20 16:51
10525011047	646-A3-1-1.5	Solid	07/15/20 10:58	07/15/20 16:51
10525011048	646-A4-0.5-1	Solid	07/15/20 11:13	07/15/20 16:51
10525011049	646-A4-1-1.5	Solid	07/15/20 11:15	07/15/20 16:51
10525011050	646-B1-0.5-1	Solid	07/15/20 11:29	07/15/20 16:51
10525011051	646-B1-1-1.5	Solid	07/15/20 11:31	07/15/20 16:51
10525011052	646-B2-0.5-1	Solid	07/15/20 11:45	07/15/20 16:51
10525011053	646-B2-1-1.5	Solid	07/15/20 11:47	07/15/20 16:51
10525011054	646-B3-0.5-1	Solid	07/15/20 12:10	07/15/20 16:51
10525011055	646-B3-1-1.5	Solid	07/15/20 12:12	07/15/20 16:51
10525011056	646-B4-0.5-1	Solid	07/15/20 12:25	07/15/20 16:51
10525011057	646-B4-1-1.5	Solid	07/15/20 12:28	07/15/20 16:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525011001	646-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011002	646-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011003	646-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011004	646-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011005	646-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011006	646-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011007	646-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011008	646-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525011009	M-3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-A1 **Lab ID: 10525011001** Collected: 07/15/20 10:10 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	238	mg/kg	0.63	0.14	1	07/16/20 11:50	07/17/20 14:19	7439-92-1	M1,R1
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	22.5	%	0.10	0.10	1		07/16/20 11:52		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-A2 **Lab ID: 10525011002** Collected: 07/15/20 10:23 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	163	mg/kg	0.61	0.14	1	07/16/20 11:50	07/17/20 14:28	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.0	%	0.10	0.10	1		07/16/20 11:52		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-A3 **Lab ID: 10525011003** Collected: 07/15/20 10:46 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	162	mg/kg	0.59	0.13	1	07/16/20 11:50	07/17/20 14:29	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.4	%	0.10	0.10	1		07/16/20 11:52		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-A4 **Lab ID: 10525011004** Collected: 07/15/20 11:13 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	181	mg/kg	0.57	0.13	1	07/16/20 11:50	07/17/20 14:31	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.9	%	0.10	0.10	1		07/16/20 11:52		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-B1 **Lab ID: 10525011005** Collected: 07/15/20 11:28 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	66.7	mg/kg	0.54	0.12	1	07/16/20 11:50	07/17/20 14:38	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.6	%	0.10	0.10	1		07/16/20 11:53		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-B2 **Lab ID: 10525011006** Collected: 07/15/20 11:43 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	62.9	mg/kg	0.55	0.12	1	07/16/20 11:50	07/17/20 14:40	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.6	%	0.10	0.10	1		07/16/20 11:53		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-B3 **Lab ID: 10525011007** Collected: 07/15/20 12:08 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	41.5	mg/kg	0.53	0.12	1	07/16/20 11:50	07/17/20 14:41	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.3	%	0.10	0.10	1		07/16/20 13:11		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: 646-B4 **Lab ID: 10525011008** Collected: 07/15/20 00:00 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	44.2	mg/kg	0.53	0.12	1	07/16/20 11:50	07/17/20 14:43	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.4	%	0.10	0.10	1		07/16/20 13:11		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Sample: M-3 **Lab ID: 10525011009** Collected: 07/15/20 10:48 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	146	mg/kg	0.58	0.13	1	07/16/20 11:50	07/17/20 14:45	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.4	%	0.10	0.10	1		07/16/20 13:12		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

QC Batch:	687119	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525011001, 10525011002, 10525011003, 10525011004, 10525011005, 10525011006, 10525011007, 10525011008, 10525011009		

METHOD BLANK:	3674516	Matrix:	Solid
Associated Lab Samples:	10525011001, 10525011002, 10525011003, 10525011004, 10525011005, 10525011006, 10525011007, 10525011008, 10525011009		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.50	0.50	0.11	07/17/20 14:16	

LABORATORY CONTROL SAMPLE: 3674517						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	48.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3674518					3674519							
		10525011001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Lead	mg/kg	238	60.3	59.7	215	267	-39	47	75-125	22	20	M1,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

QC Batch:	687219	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525011001, 10525011002, 10525011003, 10525011004, 10525011005, 10525011006

SAMPLE DUPLICATE: 3675006

Parameter	Units	10525025001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	7.1	2	30	N2

SAMPLE DUPLICATE: 3675007

Parameter	Units	10525011006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.6	15.0	5	30	N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

QC Batch: 687250

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525011007, 10525011008, 10525011009

SAMPLE DUPLICATE: 3675088

Parameter	Units	10525011008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	11.7	6	30	N2

SAMPLE DUPLICATE: 3675260

Parameter	Units	10524027006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.3	5.3	1	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525011

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525011

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525011001	646-A1	EPA 3050B	687119	EPA 6010D	687442
10525011002	646-A2	EPA 3050B	687119	EPA 6010D	687442
10525011003	646-A3	EPA 3050B	687119	EPA 6010D	687442
10525011004	646-A4	EPA 3050B	687119	EPA 6010D	687442
10525011005	646-B1	EPA 3050B	687119	EPA 6010D	687442
10525011006	646-B2	EPA 3050B	687119	EPA 6010D	687442
10525011007	646-B3	EPA 3050B	687119	EPA 6010D	687442
10525011008	646-B4	EPA 3050B	687119	EPA 6010D	687442
10525011009	M-3	EPA 3050B	687119	EPA 6010D	687442
10525011001	646-A1	ASTM D2974	687219		
10525011002	646-A2	ASTM D2974	687219		
10525011003	646-A3	ASTM D2974	687219		
10525011004	646-A4	ASTM D2974	687219		
10525011005	646-B1	ASTM D2974	687219		
10525011006	646-B2	ASTM D2974	687219		
10525011007	646-B3	ASTM D2974	687250		
10525011008	646-B4	ASTM D2974	687250		
10525011009	M-3	ASTM D2974	687250		

REPORT OF LABORATORY ANALYSIS

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10525011

 $(10.3, 24, 14.)$

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 3 of 6	
Facility Code:*		PROJECT/CLIENT INFO				Turnaround Time: ~~24~~ 48		COC ID:		FOR LAB USE ONLY	
Project Name:*		LABORATORY									
Project Manager:		Lab Name: Pace Analytical - Minneapolis									
Potential Hazard?		Address: 1700 Elm St SE									
		Minneapolis, MN 55414									
		EPA Lab ID: MN00064								Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	C-Grab sample	DW-Drinking Water	BI-Biological Material	Wtr-Ground-Groundwater							
QC-PB-Field Blank Sample	CT-Composite, time-paced w/AS	NW-Nonpotable Water	OT-Other	Wtr-Surf-Surface Water							
QC-FR-Field Replicate Sample	CF-Composite w/AS	SD-Soil-Solid	TS-Tissue	Wtr-Drinking Water							
QC-FB-Trip Blank Sample	D-F-Discrete, time-paced w/AS	AR-Air		QC-BLANK-Artificial Blank Water							
QC-ED-Equipment Blank	D-F-Discrete, flow-paced w/AS			Leachate-Leachate Sample							
Treated-Mid-Treatment system sample	SW-GAS-Gas Sampling			Air-Indoor-Indoor Air							
Treated-Post-Treatment system sample	Unknown-Unknown			Gas-Soil-Soil Gas							
SAMPLE DETAILS		Depth		End Date		End Time		Sampling Method		Lab Matrix	
Field Name		Start Date		Start Time		End Date		End Time		Lab Matrix	
Sample Type		Sample Start Date		Sample Start Time		Sample End Date		Sample End Time		Sample Lab Matrix	
MN Location Identifier		Sample Type		Sample Start Date		Sample Start Time		Sample End Date		Sample End Time	
646-A3-SW	Sample	7/5/2020	10:35	7/5/2020	10:35	7/5/2020	10:35	G	0.5 ft	SD	Soil-Surf
646-A3-SE	Sample	7/5/2020	10:40	7/5/2020	10:40	7/5/2020	10:40	G	0.5 ft	SD	Soil-Surf
646-A4-NW	Sample	7/5/2020	11:03	7/5/2020	11:03	7/5/2020	11:03	G	0.5 ft	SD	Soil-Surf
646-A4-NE	Sample	7/5/2020	11:05	7/5/2020	11:05	7/5/2020	11:05	G	0.5 ft	SD	Soil-Surf
646-A4-SW	Sample	7/5/2020	11:04	7/5/2020	11:04	7/5/2020	11:04	G	0.5 ft	SD	Soil-Surf
646-A4-SE	Sample	7/5/2020	11:08	7/5/2020	11:08	7/5/2020	11:08	G	0.5 ft	SD	Soil-Surf
646-B1-NW	Sample	7/5/2020	11:19	7/5/2020	11:19	7/5/2020	11:19	G	0.5 ft	SD	Soil-Surf
646-B1-NE	Sample	7/5/2020	11:21	7/5/2020	11:21	7/5/2020	11:21	G	0.5 ft	SD	Soil-Surf
646-B1-SW	Sample	7/5/2020	11:24	7/5/2020	11:24	7/5/2020	11:24	G	0.5 ft	SD	Soil-Surf
646-B1-SE	Sample	7/5/2020	11:24	7/5/2020	11:24	7/5/2020	11:24	G	0.5 ft	SD	Soil-Surf
Sampler's Name:*		Eric Gabrielson		Phone#: 952-240-8935		Billing Organization:		Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature:*						Address:		2042 W. 98th St, Bloomington, MN 55431			
Sampler's Organization:		Landmark Environmental, LLC				Courier Name:				Tracking#:	
Receiving Comments:											
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time					
(Sampler)		7/15/20 16:50		NLE U Per		7/15/20 16:51					

Project Managers: Michael Ginsbach, Sherry Van Duyn, Angela Fogarty (emails shown above)

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page: 4 of 6	
Facility Code:*		Project Name:*		Turnaround Time: <u>10/25/20</u>		COC ID:		FOR LAB USE ONLY	
MND006148092		3344 Highway 149 Adjacent Property, Eagan		10/25/20		LABORATORY			
Project Manager:		Project Task Code:*		Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Minneapolis, MN 55414	
michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		PRJ08104		EPA Lab ID: MN00064		Lab Work Order Sticker			
Potential Hazard?		N		If yes, add information to Sampler Comments field					
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED	
Sample-Routine Sample	G-Grab sample	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (in or ft)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	Field Matrix*	Lab Matrix*
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS								
QC-FB-Field Blank Sample	CF-Composite w/AS								
QC-TB-Trip Blank Sample	D-T-Direct time-paced w/AS								
QC-EB-Equipment Blank	D-F-Direct flow-paced w/AS								
Treated Water/Treatment system sample	SW-GAS-Gas Sampling								
	Unknown-Unknown								
MN Location Identifier*		Sample Type*		Sampling Method*		Sampler Comments (filter volume, special handling, etc.)		# of Cont	
646-B2-NW	Sample	7/5/2020 11:35	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	030
646-B2-NE	Sample	7/5/2020 11:37	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	031
646-B2-SW	Sample	7/5/2020 11:40	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	032
646-B2-SE	Sample	7/5/2020 11:46	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	033
646-B3-NW	Sample	7/5/2020 11:59	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	034
646-B3-NE	Sample	7/5/2020 12:03	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	035
646-B3-SW	Sample	7/5/2020 12:08	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	036
646-B3-SE	Sample	7/5/2020 12:07	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	037
646-B4-NW	Sample	7/5/2020 12:14	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	038
646-B4-NE	Sample	7/5/2020 12:17	0 0.5 ft	G	SD	Soil-Surf	sample hold	1	039
Sampler's Name:*		Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature:*						Address: 2042 W. 98th St., Bloomington, MN 55431			
Sampler's Organization:*		Landmark Environmental, LLC				Courier Name:		Tracking#:	
Receiving Comments:									
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time			
(Sampler) <u>Mr. Up</u>		7/15/20 16:50		Mike K. Pace		7/15/20 16:51			

Project Managers: Michael Ginsbach, Sherry Van Duan, Angela Fogarty (emails shown above)

10.3, 24, 14.1

MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page: 5 of 6						
Minnesota Pollution Control Agency		Turnaround Time: ~~3-5 Business Days~~		COC ID:		FOR LAB USE ONLY						
PROJECT/CLIENT INFO		LABORATORY										
Facility Code: * MND006148092		Lab Name: Pace Analytical - Minneapolis										
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Address: 1700 Elm St SE										
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Minneapolis, MN 55414										
Potential Hazard? N		EPA Lab ID: * MN00064				Lab Work Order Sticker						
If yes, add information to Sampler Comments field												
SAMPLE DETAILS		FIELD MATRICES		ANALYSIS REQUESTED								
MN Location Identifier*	Sample Type*	Sample Start Date* (mm/dd/yyyy)	Depth	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	Lab Sample No.
646-B4-SW	Sample	7/5/2020	0.5 ft	G			SD	sample hold				340
646-B4-SE	Sample	7/5/2020	0.5 ft	G			SD	sample hold				341
646-A1-0.5-1	Sample	7/5/2020	1 ft	G			SD	sample hold				342
646-A1-1-1.5	Sample	7/5/2020	1.5 ft	G			SD	sample hold				343
646-A2-0.5-1	Sample	7/5/2020	0.5 ft	G			SD	sample hold				344
646-A2-1-1.5	Sample	7/5/2020	1.5 ft	G			SD	sample hold				345
646-A3-0.5-1	Sample	7/5/2020	0.5 ft	G			SD	sample hold				346
646-A3-1-1.5	Sample	7/5/2020	1.5 ft	G			SD	sample hold				347
646-A4-0.5-1	Sample	7/5/2020	0.5 ft	G			SD	sample hold				348
646-A4-1-1.5	Sample	7/5/2020	1.5 ft	G			SD	sample hold				349
Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St, Bloomington, MN 55431 Phone#: 952-240-8935 Acct#: 20093.01												
Sampler's Name: * Eric Gabrielson		Sampler's Signature: *		Sampler's Organization: Landmark Environmental, LLC		Tracking#:						
Receiving Comments:		Date/Time: 7/5/20 16:50		Accepted By/Affiliation: Mike M Paul		Date/Time: 7/5/20 16:51						

10.3, 24, 14.1

[illegible]

10.3, 24, 7, 14, 1

02.51.2 274

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: MPCA	Project #: WO# : 10525011
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/20/20 CLIENT: LANDMARK ENV

Tracking Number:	Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
	Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other:	Temp Blank? ☐ Yes ☒ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted		

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: _____ °C
Correction Factor: True	Cooler Temp Corrected w/temp blank: _____ °C
Average Corrected Temp (no temp blank only): ☒ See Exceptions ☐ 1 Container 24.1/10.3	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: **M/K 7-15-20**
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6. RUSH
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	
Containers Intact?	☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception Chlorine? ☐ No ☐ pH Paper Lot# ☐
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION Person Contacted: _____ Comments/Resolution: _____	Date/Time: _____ Field Data Required? ☐ Yes ☐ No

Project Manager Review: **Amey Asp** Date: **7/17/2020**
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

	Document Name: Sample Condition Upon Receipt (SCUR) Exception Form	Document Revised: 04Jun2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0142 Rev.01	Pace Analytical Services - Minneapolis

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☒ No												
			If yes, indicate who was contacted/date/time. If no, indicate reason why. <i>Same Day Arrival</i>												
			Multiple Cooler Project? ☐ Yes ☐ No If you answered yes, fill out information to the left.												
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>11.3</td> <td rowspan="4">Five</td> <td>10.3</td> </tr> <tr> <td>10.1</td> </tr> <tr> <td>11.0</td> </tr> <tr> <td>8.6</td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	11.3	Five	10.3	10.1	11.0	8.6
No Temp Blank															
Read Temp	Corrected Temp	Average Temp													
11.3	Five	10.3													
10.1															
11.0															
8.6															

Tracking Number/Temperature	

Issue Type:		Container Type	# of Containers
Sample ID			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☒ No															
			If yes, indicate who was contacted/date/time. If no, indicate reason why.															
			Multiple Cooler Project? ☐ Yes ☒ No If you answered yes, fill out information to the left.															
			No Temp Blank <table border="1"> <thead> <tr> <th>Read Temp</th><th>Corrected Temp</th><th>Average Temp</th></tr> </thead> <tbody> <tr> <td>23.4/14.7</td><td></td><td>24.0 / [14.7]</td></tr> <tr> <td>21.6/12.1</td><td></td><td></td></tr> <tr> <td>28.6/14.7</td><td></td><td></td></tr> <tr> <td>25.5/14.5</td><td></td><td></td></tr> </tbody> </table>	Read Temp	Corrected Temp	Average Temp	23.4/14.7		24.0 / [14.7]	21.6/12.1			28.6/14.7			25.5/14.5		
Read Temp	Corrected Temp	Average Temp																
23.4/14.7		24.0 / [14.7]																
21.6/12.1																		
28.6/14.7																		
25.5/14.5																		

[illegible][illegible]

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 20, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525009

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 15, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525009

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01	Minnesota Petrofund Certification #: 1240
Alabama Certification #: 40770	Mississippi Certification #: MN00064
Alaska Contaminated Sites Certification #: 17-009	Missouri Certification #: 10100
Alaska DW Certification #: MN00064	Montana Certification #: CERT0092
Arizona Certification #: AZ0014	Nebraska Certification #: NE-OS-18-06
Arkansas DW Certification #: MN00064	Nevada Certification #: MN00064
Arkansas WW Certification #: 88-0680	New Hampshire Certification #: 2081
California Certification #: 2929	New Jersey Certification #: MN002
CNMI Saipan Certification #: MP0003	New York Certification #: 11647
Colorado Certification #: MN00064	North Carolina DW Certification #: 27700
Connecticut Certification #: PH-0256	North Carolina WW Certification #: 530
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137	North Dakota Certification #: R-036
Florida Certification #: E87605	Ohio DW Certification #: 41244
Georgia Certification #: 959	Ohio VAP Certification #: CL101
Guam EPA Certification #: MN00064	Oklahoma Certification #: 9507
Hawaii Certification #: MN00064	Oregon Primary Certification #: MN300001
Idaho Certification #: MN00064	Oregon Secondary Certification #: MN200001
Illinois Certification #: 200011	Pennsylvania Certification #: 68-00563
Indiana Certification #: C-MN-01	Puerto Rico Certification #: MN00064
Iowa Certification #: 368	South Carolina Certification #: 74003001
Kansas Certification #: E-10167	Tennessee Certification #: TN02818
Kentucky DW Certification #: 90062	Texas Certification #: T104704192
Kentucky WW Certification #: 90062	Utah Certification #: MN00064
Louisiana DEQ Certification #: 03086	Vermont Certification #: VT-027053137
Louisiana DW Certification #: MN00064	Virginia Certification #: 460163
Maine Certification #: MN00064	Washington Certification #: C486
Maryland Certification #: 322	West Virginia DEP Certification #: 382
Massachusetts DWP Certification #: via MN 027-053-137	West Virginia DW Certification #: 9952 C
Michigan Certification #: 9909	Wisconsin Certification #: 999407970
Minnesota Certification #: 027-053-137	Wyoming UST Certification #: via A2LA 2926.01
Minnesota Dept of Ag Certification #: via MN 027-053-137	

REPORT OF LABORATORY ANALYSIS

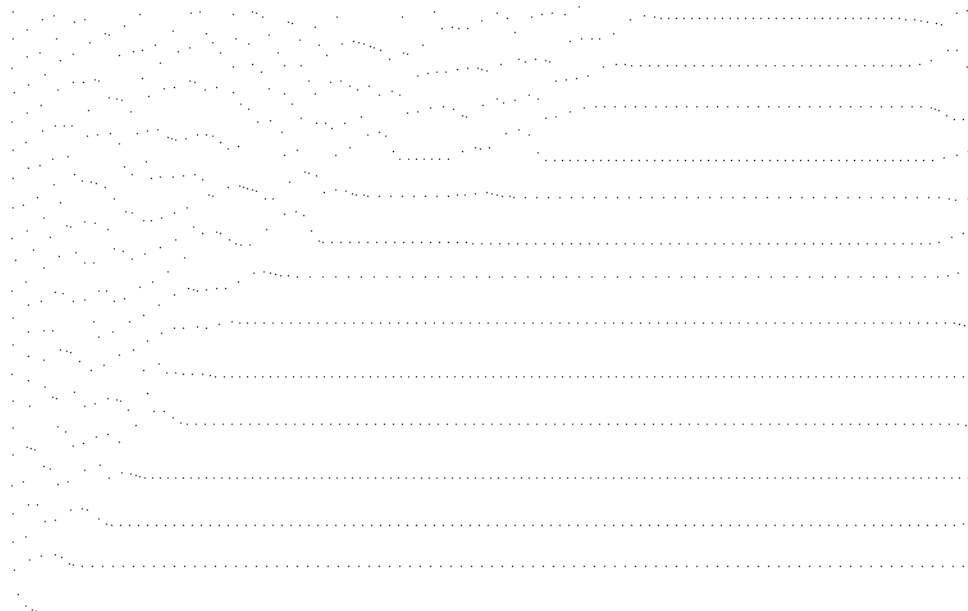
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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525009

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525009001	646-C1-NE	Solid	07/15/20 12:49	07/15/20 16:51
10525009002	646-C1-SE	Solid	07/15/20 12:52	07/15/20 16:51
10525009003	646-C2-NW	Solid	07/15/20 12:54	07/15/20 16:51
10525009004	646-C2-SW	Solid	07/15/20 12:56	07/15/20 16:51
10525009005	646-C1/C2 0.5-1	Solid	07/15/20 13:01	07/15/20 16:51
10525009006	646-C1/C2 1-1.5	Solid	07/15/20 13:03	07/15/20 16:51
10525009007	646-C1/C2	Solid	07/15/20 12:57	07/15/20 16:51



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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525009

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525009007	646-C1/C2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525009

Sample: 646-C1/C2 **Lab ID: 10525009007** Collected: 07/15/20 12:57 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	32.5	mg/kg	0.55	0.12	1	07/16/20 11:50	07/17/20 14:46	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	10.7	%	0.10	0.10	1		07/16/20 16:06		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525009

QC Batch:	687119	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525009007

METHOD BLANK: 3674516
Associated Lab Samples: 10525009007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.50	0.50	0.11	07/17/20 14:16	

LABORATORY CONTROL SAMPLE: 3674517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	48.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3674518 3674519

Parameter	Units	10525011001		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Lead	mg/kg	238	60.3	59.7	215	267	-39	47	75-125	22	20	M1,R1			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525009

QC Batch: 687329

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525009007

SAMPLE DUPLICATE: 3675464

Parameter	Units	10525009007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.7	11.4	6	30	N2

SAMPLE DUPLICATE: 3675465

Parameter	Units	10525007004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.2	6.1	3	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525009

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 - Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 - The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1 - RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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Pace Project No.: 10525009

Page 9 of 13

Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TYPE (G=G-RAB C=COMP)		MATRIX CODE (see valid codes to left)		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		Requested Analysis Filtered (Y/N)		ITEM #	
		MATRIX	CODE	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME														
		DRINKING WATER	DW																		
		WATER	WT																		
		WASTE WATER	WW																		
		PRODUCT	P																		
		SOIL/SOLID	SL																		
		OIL	OL																		
		WIPE	WP																		
		AIR	AR																		
		OTHER	OT																		
		TISSUE	TS																		

Pace Project No./ Lab ID:

Residue

Run Lead 4000

Lead 4000 H/C

Analysis Test

WO#: 10525009

10525009

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

[illegible]

Temp in °C 	Received on Ice (Y/N) 	Custody Sealed Cooler (Y/N) 	Samples Intact (Y/N) 	SAMPLER NAME AND SIGNATURE	
				PRINT Name of SAMPLER: <i>Epic Cabral</i>	DATE Signed (MM/DD/YY):
		SIGNATURE of SAMPLER: <i>[Signature]</i>			

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: Landmark Environmental	Project #: WO#: 10525009
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____ Temp Blank? ☐ Yes ☒ No
 Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted
☐ T4(0254) ☒ T5(0489)

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C	Average Corrected Temp (no temp blank only): ☒ See Exceptions ☐ 1 Container
Correction Factor: <u>TME</u> Cooler Temp Corrected w/temp blank: _____ °C	24/14/10.3c

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: MLL 7-15-20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6. <u>RLSH</u>
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	9.
Containers Intact? ☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Positive for Res. ☐ Yes ☐ No pH Paper Lot# ☐ See Exception
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Res. Chlorine ☐ 0-6 Roll ☐ 0-6 Strip ☐ 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased): _____
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No
 Person Contacted: SVD Date/Time: 7/16/2020 21:20
 Comments/Resolution: Client requested to add the prefix 646 - to all samples.

Project Manager Review: [Signature] Date: 7/16/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Worksheet #1:															
Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☒ No												
			If yes, indicate who was contacted/date/time. If no, indicate reason why. Same Day Arrival												
			Multiple Cooler Project? ☐ Yes ☐ No												
			If you answered yes, fill out information to the left.												
			<table><tr><th colspan="3">No Temp Blank</th></tr><tr><th>Read Temp</th><th>Corrected Temp</th><th>Average Temp</th></tr><tr><td>11.3</td><td rowspan="4">True</td><td rowspan="4">10.3</td></tr><tr><td>10.1</td></tr><tr><td>11.0</td></tr><tr><td>8.6</td></tr></table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	11.3	True	10.3	10.1	11.0	8.6
No Temp Blank															
Read Temp	Corrected Temp	Average Temp													
11.3	True	10.3													
10.1															
11.0															
8.6															

[illegible][illegible]

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

SCUR Exceptions:

Workorder #:[illegible][illegible][illegible]

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 21, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525012

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory between July 15, 2020 and July 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525012001	650-A1	Solid	07/15/20 13:51	07/15/20 16:51
10525012002	650-A2	Solid	07/15/20 14:08	07/15/20 16:51
10525012003	650-A3	Solid	07/15/20 14:30	07/15/20 16:51
10525012004	650-A4	Solid	07/15/20 14:50	07/15/20 16:51
10525012005	650-A5	Solid	07/15/20 15:12	07/15/20 16:51
10525012006	650-A/B1	Solid	07/15/20 13:28	07/15/20 16:51
10525012007	650-B1	Solid	07/15/20 15:37	07/15/20 16:51
10525012008	650-M4	Solid	07/15/20 15:13	07/15/20 16:51
10525012009	650-A1-NW	Solid	07/15/20 13:43	07/15/20 16:51
10525012010	650-A1-NE	Solid	07/15/20 13:46	07/15/20 16:51
10525012011	650-A1-SW	Solid	07/15/20 13:48	07/15/20 16:51
10525012012	650-A1-SE	Solid	07/15/20 13:49	07/15/20 16:51
10525012013	650-A2-NW	Solid	07/15/20 13:58	07/15/20 16:51
10525012014	650-A2-NE	Solid	07/15/20 14:01	07/15/20 16:51
10525012015	650-A2-SW	Solid	07/15/20 14:03	07/15/20 16:51
10525012016	650-A2-SE	Solid	07/15/20 14:07	07/15/20 16:51
10525012017	650-A3-NW	Solid	07/15/20 14:17	07/15/20 16:51
10525012018	650-A3-NE	Solid	07/15/20 14:20	07/15/20 16:51
10525012019	650-A3-SW	Solid	07/15/20 14:27	07/15/20 16:51
10525012020	650-A3-SE	Solid	07/15/20 14:25	07/15/20 16:51
10525012021	650-A4-NW	Solid	07/15/20 14:33	07/15/20 16:51
10525012022	650-A4-NE	Solid	07/15/20 14:42	07/15/20 16:51
10525012023	650-A4-SW	Solid	07/15/20 14:49	07/15/20 16:51
10525012024	650-A4-SE	Solid	07/15/20 14:46	07/15/20 16:51
10525012025	650-A5-NW	Solid	07/15/20 15:00	07/15/20 16:51
10525012026	650-A5-NE	Solid	07/15/20 15:04	07/15/20 16:51
10525012027	650-A5-SW	Solid	07/15/20 15:11	07/15/20 16:51
10525012028	650-A5-SE	Solid	07/15/20 15:07	07/15/20 16:51
10525012029	650-B1-NW	Solid	07/15/20 15:31	07/15/20 16:51
10525012030	650-B1-NE	Solid	07/15/20 15:30	07/15/20 16:51
10525012031	650-B1-SW	Solid	07/15/20 15:34	07/15/20 16:51
10525012032	650-B1-SE	Solid	07/15/20 15:33	07/15/20 16:51
10525012033	650-A/B1-NW	Solid	07/15/20 13:19	07/15/20 16:51
10525012034	650-A/B1-NE	Solid	07/15/20 13:22	07/15/20 16:51
10525012035	650-A/B1-SW	Solid	07/15/20 13:24	07/15/20 16:51
10525012036	650-A/B1-SE	Solid	07/15/20 13:27	07/15/20 16:51
10525012037	650-A1-0.5-1	Solid	07/15/20 13:53	07/15/20 16:51

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525012038	650-A1-1-1.5	Solid	07/15/20 13:55	07/15/20 16:51
10525012039	650-A2-0.5-1	Solid	07/15/20 14:10	07/15/20 16:51
10525012040	650-A2-1-1.5	Solid	07/15/20 14:12	07/15/20 16:51
10525012041	650-A3-0.5-1	Solid	07/15/20 14:32	07/15/20 16:51
10525012042	650-A3-1-1.5	Solid	07/15/20 14:35	07/15/20 16:51
10525012043	650-A4-0.5-1	Solid	07/15/20 14:53	07/15/20 16:51
10525012044	650-A4-1-1.5	Solid	07/15/20 14:55	07/15/20 16:51
10525012045	650-A5-0.5-1	Solid	07/15/20 15:18	07/15/20 16:51
10525012046	650-A5-1-1.5	Solid	07/15/20 15:21	07/15/20 16:51
10525012047	650-A/B1-0.5-1	Solid	07/15/20 13:32	07/15/20 16:51
10525012048	650-A/B1-1-1.5	Solid	07/15/20 13:34	07/15/20 16:51
10525012049	650-B1-0.5-1	Solid	07/15/20 15:37	07/15/20 16:51
10525012050	650-B1-1-1.5	Solid	07/15/20 15:42	07/15/20 16:51
10525012051	650-B2	Solid	07/16/20 08:30	07/16/20 17:19
10525012052	650-B3	Solid	07/16/20 08:46	07/16/20 17:19
10525012053	650-B4	Solid	07/16/20 09:05	07/16/20 17:19
10525012054	650-B5	Solid	07/16/20 09:29	07/16/20 17:19
10525012055	650-B2-NW	Solid	07/16/20 08:21	07/16/20 17:19
10525012056	650-B2-NE	Solid	07/16/20 08:22	07/16/20 17:19
10525012057	650-B2-SW	Solid	07/16/20 08:28	07/16/20 17:19
10525012058	650-B2-SE	Solid	07/16/20 08:24	07/16/20 17:19
10525012059	650-B3-NW	Solid	07/16/20 08:36	07/16/20 17:19
10525012060	650-B3-NE	Solid	07/16/20 08:40	07/16/20 17:19
10525012061	650-B3-SW	Solid	07/16/20 08:43	07/16/20 17:19
10525012062	650-B3-SE	Solid	07/16/20 08:41	07/16/20 17:19
10525012063	650-B4-NW	Solid	07/16/20 08:53	07/16/20 17:19
10525012064	650-B4-NE	Solid	07/16/20 08:56	07/16/20 17:19
10525012065	650-B4-SW	Solid	07/16/20 09:03	07/16/20 17:19
10525012066	650-B4-SE	Solid	07/16/20 08:59	07/16/20 17:19
10525012067	650-B5-NW	Solid	07/16/20 09:14	07/16/20 17:19
10525012068	650-B5-NE	Solid	07/16/20 09:20	07/16/20 17:19
10525012069	650-B5-SW	Solid	07/16/20 09:28	07/16/20 17:19
10525012070	650-B5-SE	Solid	07/16/20 09:22	07/16/20 17:19
10525012071	650-B2-0.5-1	Solid	07/16/20 08:31	07/16/20 17:19
10525012072	650-B2-1-1.5	Solid	07/16/20 08:35	07/16/20 17:19
10525012073	650-B3-0.5-1	Solid	07/16/20 08:48	07/16/20 17:19
10525012074	650-B3-1-1.5	Solid	07/16/20 08:50	07/16/20 17:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525012075	650-B4-0.5-1	Solid	07/16/20 09:07	07/16/20 17:19
10525012076	650-B4-1-1.5	Solid	07/16/20 09:10	07/16/20 17:19
10525012077	650-B5-0.5-1	Solid	07/16/20 09:31	07/16/20 17:19
10525012078	650-B5-1-1.5	Solid	07/16/20 09:33	07/16/20 17:19

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525012001	650-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012002	650-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012003	650-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012004	650-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012005	650-A5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012006	650-A/B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012007	650-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012008	650-M4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012051	650-B2	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012052	650-B3	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012053	650-B4	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525012054	650-B5	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-A1 **Lab ID: 10525012001** Collected: 07/15/20 13:51 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	191	mg/kg	0.57	0.13	1	07/16/20 11:50	07/17/20 10:30	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.5	%	0.10	0.10	1		07/16/20 13:12		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-A2 **Lab ID: 10525012002** Collected: 07/15/20 14:08 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	223	mg/kg	0.57	0.13	1	07/16/20 11:50	07/17/20 10:32	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.5	%	0.10	0.10	1		07/16/20 13:12		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-A3 **Lab ID: 10525012003** Collected: 07/15/20 14:30 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	238	mg/kg	0.60	0.13	1	07/16/20 11:50	07/17/20 10:33	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.1	%	0.10	0.10	1		07/16/20 13:12		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-A4 **Lab ID: 10525012004** Collected: 07/15/20 14:50 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	200	mg/kg	0.55	0.12	1	07/16/20 11:50	07/17/20 10:35	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.7	%	0.10	0.10	1		07/16/20 13:12		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-A5 **Lab ID: 10525012005** Collected: 07/15/20 15:12 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	163	mg/kg	0.59	0.13	1	07/16/20 11:50	07/17/20 10:37	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.9	%	0.10	0.10	1		07/16/20 13:12		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-A/B1 **Lab ID: 10525012006** Collected: 07/15/20 13:28 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	60.4	mg/kg	0.56	0.13	1	07/16/20 11:50	07/17/20 10:38	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.5	%	0.10	0.10	1		07/16/20 13:13		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-B1 **Lab ID: 10525012007** Collected: 07/15/20 15:37 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	72.9	mg/kg	0.56	0.13	1	07/16/20 11:50	07/17/20 10:40	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.2	%	0.10	0.10	1		07/16/20 13:13		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-M4 **Lab ID: 10525012008** Collected: 07/15/20 15:13 Received: 07/15/20 16:51 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	192	mg/kg	0.57	0.13	1	07/16/20 11:50	07/17/20 10:42	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.1	%	0.10	0.10	1		07/16/20 13:13		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-B2 **Lab ID: 10525012051** Collected: 07/16/20 08:30 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	63.3	mg/kg	0.58	0.13	1	07/19/20 13:30	07/20/20 12:13	7439-92-1	M1
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	21.2	%	0.10	0.10	1		07/20/20 11:45		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-B3 **Lab ID: 10525012052** Collected: 07/16/20 08:46 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	67.1	mg/kg	0.56	0.13	1	07/19/20 13:30	07/20/20 12:22	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.5	%	0.10	0.10	1		07/20/20 11:45		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-B4 **Lab ID: 10525012053** Collected: 07/16/20 09:05 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	84.8	mg/kg	0.56	0.13	1	07/19/20 13:30	07/20/20 12:23	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.3	%	0.10	0.10	1		07/20/20 11:45		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Sample: 650-B5 **Lab ID: 10525012054** Collected: 07/16/20 09:29 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	83.3	mg/kg	0.56	0.13	1	07/19/20 13:30	07/20/20 12:25	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	10.7	%	0.10	0.10	1		07/20/20 11:45		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

QC Batch:	687118	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525012001, 10525012002, 10525012003, 10525012004, 10525012005, 10525012006, 10525012007, 10525012008		

METHOD BLANK:	3674512	Matrix:	Solid
Associated Lab Samples:	10525012001, 10525012002, 10525012003, 10525012004, 10525012005, 10525012006, 10525012007, 10525012008		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.50	0.50	0.11	07/17/20 10:06	

LABORATORY CONTROL SAMPLE: 3674513						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	50.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3674514					3674515							
		10524818005	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits		Max RPD	Qual
Parameter	Units	Result										
Lead	mg/kg	93.5	57.2	56.2	133	136	69	76	75-125	2	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

QC Batch: 687710

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525012051, 10525012052, 10525012053, 10525012054

METHOD BLANK: 3678258

Matrix: Solid

Associated Lab Samples: 10525012051, 10525012052, 10525012053, 10525012054

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/20/20 12:07	

LABORATORY CONTROL SAMPLE: 3678259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	51.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678260 3678261

Parameter	Units	10525012051 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	63.3	59.9	60.4	119	101	92	62	75-125	16	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

QC Batch:	687250	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525012001, 10525012002, 10525012003, 10525012004, 10525012005, 10525012006, 10525012007, 10525012008		

SAMPLE DUPLICATE: 3675088

Parameter	Units	10525011008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	11.7	6	30	N2

SAMPLE DUPLICATE: 3675260

Parameter	Units	10524027006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.3	5.3	1	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

QC Batch:	687813	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525012051, 10525012052, 10525012053, 10525012054

SAMPLE DUPLICATE: 3678582

Parameter	Units	10525012051 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.2	16.7	24	30	N2

SAMPLE DUPLICATE: 3678583

Parameter	Units	10524399016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.6	30.2	1	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525012

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525012

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525012

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525012001	650-A1	EPA 3050B	687118	EPA 6010D	687444
10525012002	650-A2	EPA 3050B	687118	EPA 6010D	687444
10525012003	650-A3	EPA 3050B	687118	EPA 6010D	687444
10525012004	650-A4	EPA 3050B	687118	EPA 6010D	687444
10525012005	650-A5	EPA 3050B	687118	EPA 6010D	687444
10525012006	650-A/B1	EPA 3050B	687118	EPA 6010D	687444
10525012007	650-B1	EPA 3050B	687118	EPA 6010D	687444
10525012008	650-M4	EPA 3050B	687118	EPA 6010D	687444
10525012051	650-B2	EPA 3050B	687710	EPA 6010D	687841
10525012052	650-B3	EPA 3050B	687710	EPA 6010D	687841
10525012053	650-B4	EPA 3050B	687710	EPA 6010D	687841
10525012054	650-B5	EPA 3050B	687710	EPA 6010D	687841
10525012001	650-A1	ASTM D2974	687250		
10525012002	650-A2	ASTM D2974	687250		
10525012003	650-A3	ASTM D2974	687250		
10525012004	650-A4	ASTM D2974	687250		
10525012005	650-A5	ASTM D2974	687250		
10525012006	650-A/B1	ASTM D2974	687250		
10525012007	650-B1	ASTM D2974	687250		
10525012008	650-M4	ASTM D2974	687250		
10525012051	650-B2	ASTM D2974	687813		
10525012052	650-B3	ASTM D2974	687813		
10525012053	650-B4	ASTM D2974	687813		
10525012054	650-B5	ASTM D2974	687813		

REPORT OF LABORATORY ANALYSIS

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Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form

revised 2017.03.28

* Indicates a required field

PROJECT/CLIENT INFO

Facility Code: * MND006148092

Project Name: * 3344 Highway 149 Adjacent Property, Eagan

Project Task Code: * PRJ08104

Lab Name: Pace Analytical - Minneapolis

Address: 1700 Elm St SE

Minneapolis, MN 55414

Project Manager: * michael.ginsbach@state.mn.us, svandryn@landmarkenv.com, angela.fogarty@gopherresource.com

Potential Hazard? N If yes, add information to Sampler Comments field

EPA Lab ID: * MN000064

Work Order Number:

Turnaround Time: Rush 3 day

COC Type: Standard

COC ID:

Page: 2 of 9

FOR LAB USE ONLY

SAMPLE DETAILS

ANALYSIS REQUESTED

FIELD TYPES	FIELD NAME	SAMPLE TYPE*	START DATE* (mm/dd/yyyy)	START TIME* (hh:mm)	DEPTH	SAMPLING METHOD*	END DATE (mm/dd/yyyy)	END TIME (hh:mm)	LAB MATRIX*	FIELD MATRIX*	AIS	SAMPLER COMMENTS (filter volume, special handling, etc.)	# of CONT	ANALYSIS*	FF	PRESERV.	LAB SAMPLE NO.	#
1-Route Sample 2-Field Blank Sample 3-Field Replicate Sample 4-Trip Blank Sample 5-Equipment Blank 6-Mid-Treatment system sample 7-Post-Treatment system sample		Sample	7/1/2020		0.5 ft	G			SD	Soil-Surf								1
																		2
																		3
																		4
																		5
																		6
																		7
																		8
																		9
																		10

Sampler's Name: * Eric Gabrielson

Phone#: 952-240-8935

Sampler's Signature: *

Sampler's Organization: * Landmark Environmental, LLC

Receiving Comments:

Transmitted By/Affiliation

Sampler

7/15/20 17:00

Accepted By/Affiliation

7/15/20 16:51

Lab Managers: Michael Ginsbach, Sherry Van Duren, Angela Fogarty (emails shown above)

27, 14.1, 10.3

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 4 of 6	
Facility Code:*		PROJECT/CLIENT INFO				Turnaround Time:		COC ID:		FOR LAB USE ONLY	
Project Name:*		LABORATORY									
Project Manager:		Lab Name: Pace Analytical - Minneapolis									
Potential Hazard?		Address: 1700 Elm St SE									
		Minneapolis, MN 55414									
		EPA Lab ID: MN000664								Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	G-Grab Sample	SW-GAS-Cas Sampling	Unknown-Unknown	DW-Drinking Water	OT-Other	Wt-Groundwater	Wt-Surface Water	Wt-Surf-Surface Water	Wt-Surf-Surface Water	Wt-Surf-Surface Water	
QC-Field Blank Sample	CF-Composite, time-paced w/AS	D-T-Duplicate, time-paced w/AS	D-T-Duplicate, time-paced w/AS	NW-Nonpotable Water	TS-Tissue	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water	
QC-Trip Blank Sample	CF-Composite, time-paced w/AS	D-T-Duplicate, time-paced w/AS	D-T-Duplicate, time-paced w/AS	SD-Soil/Solid		Leachate-Leachate Sample	Leachate-Leachate Sample	Leachate-Leachate Sample	Leachate-Leachate Sample	Leachate-Leachate Sample	
QC-EB-Empty Blank	SW-GAS-Cas Sampling	Unknown-Unknown	Unknown-Unknown	AF-Air		Air-Indoor-Air	Air-Indoor-Air	Air-Indoor-Air	Air-Indoor-Air	Air-Indoor-Air	
Treated-Mid-Treatment system sample						Gas-Soil-Soil Gas	Gas-Soil-Soil Gas	Gas-Soil-Soil Gas	Gas-Soil-Soil Gas	Gas-Soil-Soil Gas	
Treated-Post-Treatment system sample											
SAMPLE DETAILS		Depth		Sampling Method		End Date		Lab Matrix		Field Matrix	
Mn Location Identifier*		Start Time		End Time		Units (in or ft)		Sampling Method		Field Matrix	
650-A3-SW	Sample	7/5/2020 14:24	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	019
650-A3-SE	Sample	7/5/2020 14:25	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	020
650-A4-NW	Sample	7/5/2020 14:33	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	021
650-A4-NE	Sample	7/5/2020 14:42	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	022
650-A4-SW	Sample	7/5/2020 14:49	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	023
650-A4-SE	Sample	7/5/2020 14:46	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	024
650-A5-NW	Sample	7/5/2020 15:00	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	025
650-A5-NE	Sample	7/5/2020 15:04	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	026
650-A5-SW	Sample	7/5/2020 15:11	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	027
650-A5-SE	Sample	7/5/2020 15:07	0	0.5	ft	G	SD	Soil-Surf	sample hold	1	026
Sampler's Name:*		Eric Gabyelson		Phone#: 952-240-8935		Billing Organization:		Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature:*						Address:		2042 W. 98th St., Bloomington, MN 55431			
Sampler's Organization:		Landmark Environmental, LLC		Courier Name:		Tracking#:					
Receiving Comments:											
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time					
Michael Gabyelson		7/15/20 17:10		Michael K. Pace		7/15/20 16:51					
Project Managers: Michael Gabyelson, Sherry Van Duyn, Angela Fogarty (emails shown above)											

24, 19.1, 10.3



MPCA Chain-of-Custody Form

Work Order Number:

COC Type: Standard

Page: 5 of 9

PROJECT/CLIENT INFO

LABORATORY

COC ID:

FOR LAB USE ONLY

Minnesota Pollution Control Agency

Facility Code: * MNND006148092

Project Name: * 3344 Highway 149 Adjacent Property, Eagan

Project Task Code: * PR108104

Project Manager: michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@sophresources.com

Potential Hazard? N

If yes, add information to Sampler Comments field

EPA Lab ID: * MN00064

Lab Work Order Sticker

SAMPLE TYPES

SAMPLE DETAILS

ANALYSIS REQUESTED

SAMPLE TYPES	SAMPLING METHODS	LAB MATRICES	DEPTH	COMPLETE ONLY IF METHOD IS CT, CT-D, T, OR D-F	FIELD MATRICES	ANALYSIS REQUESTED	Lab Sample No.	#
Sample - Surface Sample	G-Grab sample	DW-Drinking Water	Start	End	OT-Other	FF		
QC-TB-Field Blank Sample	CT-Composite, time-paced w/AS	NW-Nonpotable Water	Start	End	TS-Tissue	PRESERV.		
QC-TB-Field Replicate Sample	CT-Composite w/AS	SD-Soil/Solid	Start	End	OT-Other			
QC-TB-Trip Blank Sample	D-I-Discrete, time-paced w/AS	AR-Air	Start	End	OT-Other			
QC-BB-Equipment Blank	D-F-Discrete, flow-paced w/AS		Start	End	OT-Other			
QC-BB-Flow Blank	SW-GAS-Gas Sampling		Start	End	OT-Other			
QC-BB-Flow Blank	Unknown-Unknown		Start	End	OT-Other			

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* 24 hr (hh:mm)	Start	End	Units (m or ft.)	Sampling Method*	End Date (mm/dd/yyyy)	End Time 24 hr (hh:mm)	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	Lead, 6010D	HOLD	Lab Sample No.	#
650-B1-NW		Sample	7/5/2020	15:31	0	0.5	ft	G			SD	Soil-Surf	sample hold					524	1
650-B1-NE		Sample	7/5/2020	15:30	0	0.5	ft	G			SD	Soil-Surf	sample hold					330	2
650-B1-SW		Sample	7/5/2020	15:34	0	0.5	ft	G			SD	Soil-Surf	sample hold					331	3
650-B1-SE		Sample	7/5/2020	15:33	0	0.5	ft	G			SD	Soil-Surf	sample hold					332	4
650-B2-NW		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf	sample hold					333	5
650-B2-NE		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf	sample hold					334	6
650-B2-SW		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf	sample hold					335	7
650-B2-SE		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf	sample hold					336	8
650-B3-NW		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf	sample hold					337	9
650-B3-NE		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf	sample hold					338	10

Sampler's Name: * Eric Gahrison Phone: 952-240-8935

Sampler's Signature: * [Signature]

Sampler's Organization: * Landmark Environmental, LLC

Address: 2042 W. 98th St., Bloomington, MN 55431

Courier Name: Tracking#:

Relinquished By/Affiliation

Date/Time Accepted By/Affiliation

Date/Time

Project Manager: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (emails shown above)

24, 14, 103



Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form

revised 2017/0328

Work Order Number:

Turnaround Time: 2-3 days

COC Type: Standard

COC ID:

LABORATORY

FOR LAB USE ONLY

Page: 7 of 9

PROJECT/CLIENT INFO

Program Code

(MDH Lab Only)

Facility Code:

MND006148092

Lab Name:

Pace Analytical - Minneapolis

Address:

1700 Elm St SE

Minneapolis, MN 55414

EPA Lab ID: MN00064

Project Name:

3344 Highway 149 Adjacent Property, Eagan

Project Manager:

michael.grinsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@sophieresource.com

Project Task Code:

PR108104

Project Hazard?

N

If yes, add information to Sampler Comments field

Lab Work Order Sticker

SAMPLE DETAILS

SAMPLE TYPES

Sample: Routine Sample
QC-FP-Field Blank Sample
QC-FR-Field Replicate Sample
QC-TB-Trip Blank Sample
QC-EB-Equipment Blank
Treated-Water-Treatment system sample
Treated-Pore-Treatment system sample

SAMPLING METHODS

G-Grab sample
CT-Composite, time-paced w/AS
CP-Composite w/AS
D-1-Discrete, time-paced w/AS
D-P-Discrete, flow-paced w/AS
SW-GAS-Gas Sampling
Unknown=Unknown

LAB MATRICES

DW-Drinking Water
NW-Nonpotable Water
SD-Soil/Solid
AB-Air

FIELD MATRICES

BT-Biological Material
OT-Other
TS-Tissue

Complete ONLY if Method is CT, CP, D-1, or D-P

Depth

Units (m or ft.)

Sampling Method*

End Date (mm/dd/yyyy)

End Time 24 hr (hh:mm)

Lab Matrix*

Field Matrix*

AIS

Sample Comments (filter volume, special handling, etc.)

of Cont

ANALYSIS*

FF

PRESERV.

ANALYSIS REQUESTED

Lab Sample No.

#

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* 24 hr (hh:mm)	Start	End	Units (m or ft.)	Sampling Method*	End Date (mm/dd/yyyy)	End Time 24 hr (hh:mm)	Lab Matrix*	Field Matrix*	AIS	Sample Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	FF	PRESERV.	ANALYSIS REQUESTED	Lab Sample No.	#
650-A/B1-NW		Sample	7/5/2020	13:19	0	0.5	ft	G			SD	Soil-Surf		sample hold						233	1
650-A/B1-NE		Sample	7/5/2020	13:22	0	0.5	ft	G			SD	Soil-Surf		sample hold						234	2
650-A/B1-SW		Sample	7/5/2020	13:24	0	0.5	ft	G			SD	Soil-Surf		sample hold						235	3
650-A/B1-SE		Sample	7/5/2020	13:27	0	0.5	ft	G			SD	Soil-Surf		sample hold						236	4
650-A1-0.5-1		Sample	7/5/2020	13:53	0.5	1	ft	G			SD	Soil-Sub		sample hold						237	5
650-A1-1-1.5		Sample	7/5/2020	13:55	1	1.5	ft	G			SD	Soil-Sub		sample hold						238	6
650-A2-0.5-1		Sample	7/5/2020	14:16	0.5	1	ft	G			SD	Soil-Sub		sample hold						239	7
650-A2-1-1.5		Sample	7/5/2020	14:18	1	1.5	ft	G			SD	Soil-Sub		sample hold						240	8
650-A3-0.5-1		Sample	7/5/2020	14:30	0.5	1	ft	G			SD	Soil-Sub		sample hold						241	9
650-A3-1-1.5		Sample	7/5/2020	14:35	1	1.5	ft	G			SD	Soil-Sub		sample hold						242	10

Sampler's Name: Eric Gabrielson

Phone#: 952-240-8935

Billing Organization:

Landmark Environmental, LLC

Acct#: 20093.01

Sampler's Signature:

Landmark Environmental, LLC

Address:

2042 W. 98th St., Bloomington, MN 55431

Sampler's Organization:

Landmark Environmental, LLC

Courier Name:

Tracking#:

Receiving Comments:

Relinquished By/Affiliation

Date/Time

Accepted By/Affiliation

Date/Time

(Sample)

7/5/20 17:11

Mike & Rich

7/5/20 2:41 PM

103

Project Managers: Michael Grinsbach, Sherry Van Damm, Angela Fogarty (emails shown above)

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Page 1 of 1 Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	Client Name: <i>MPOT</i>	Project #: WO# : 10525012 PM: AKA Due Date: 07/20/20 CLIENT: LANDMARK ENV

Tracking Number: _____ Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____ Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A Temp Blank? ☐ Yes ☒ No

Did Samples Originate in West Virginia? ☐ Yes ☒ No Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C Correction Factor: <i>T1</i> Cooler Temp Corrected w/temp blank: _____ °C Average Corrected Temp (no temp blank only): <i>27.1/10.3</i> ☒ See Exceptions ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.	Date/Initials of Person Examining Contents: <i>MKL 7-15-20</i> Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6. <i>RUSH</i>
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	11. If no, write ID/ Date/Time on Container Below: <i>Sample 6S0-B1-1-1.5 not present. Extra 6S0 AS-1-1.5 included with same time.</i>
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	12. Sample #
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ pH Paper Lot#
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	13. See Exception
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased):
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION Person Contacted: _____ Comments/Resolution: _____	Field Data Required? ☐ Yes ☐ No Date/Time: _____

Project Manager Review: <i>[Signature]</i> Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).	Date: 7/16/2020 Labeled by: <i>[Signature]</i>

	Document Name: Sample Condition Upon Receipt (SCUR) Exception Form	Document Revised: 04Jun2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0142 Rev.01	Pace Analytical Services - Minneapolis

SCUR Exceptions: *Missing Sample Extra Sample*

Workorder #:

Sample ID Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☐ No
Sample Not in cooler			If yes, indicate who was contacted/date/time. If no, indicate reason why.
GSO-B1-1-1.5 Time: 1542 Date: 7/15/20	J6FU	1	Multiple Cooler Project? ☐ Yes ☐ No If you answered yes, fill out information to the left.
Extra Sample in cooler	J6RV	1	
650-AS-1-1.5 Time: 1542 Date: 7/15/20	J6FU	1	

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

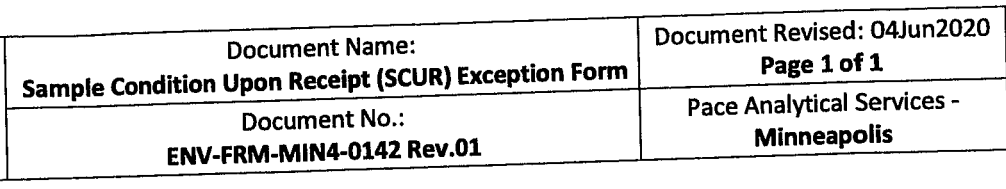
Tracking Number/Temperature

Issue Type:	Container Type	# of Containers
Sample ID		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials

Comments:

**Workorder #:** _____

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
11.3	7.46	10.3
10.1		
11.0		
8.6		

[illegible]

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

Page 34 of 42

	Document Name:	Document Revised: 04Jun2020
	Sample Condition Upon Receipt (SCUR) Exception Form	Page 1 of 1
	Document No.: ENV-FRM-MIN4-0142 Rev.01	Pace Analytical Services - Minneapolis

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? ☐ Yes ☐ No															
			If yes, indicate who was contacted/date/time. If no, indicate reason why.															
			Multiple Cooler Project? ☐ Yes ☐ No If you answered yes, fill out information to the left.															
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>23.4/14.7</td> <td></td> <td rowspan="4">24.0 / 14.1</td> </tr> <tr> <td>21.6/12.6</td> <td></td> </tr> <tr> <td>28.6/14.7</td> <td></td> </tr> <tr> <td>25.5/14.5</td> <td></td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	23.4/14.7		24.0 / 14.1	21.6/12.6		28.6/14.7		25.5/14.5	
No Temp Blank																		
Read Temp	Corrected Temp	Average Temp																
23.4/14.7		24.0 / 14.1																
21.6/12.6																		
28.6/14.7																		
25.5/14.5																		

[illegible][illegible]

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

27 5.9
~~32.7~~ CEG 7/16/20
37.5 7.5

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017/02/25				Work Order Number: <u> </u>		COC Type: Standard		Page: 5 of 9	
		* Indicates a required field				Turnaround Time: <u>Fast 3 day</u>		COC ID: <u> </u>		FOR LAB USE ONLY	
		PROJECT/CLIENT INFO				LABORATORY					
Facility Code:*		MND006148092				Program Code (MDH Lab Only):					
Project Name:*		3344 Highway 149 Adjacent Property, Eagan				Project Task Code:*		PRJ08104			
Project Manager:		michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com				Lab Name:		Pace Analytical - Minneapolis			
Potential Hazard?		N				Address:		1700 Elm St SE			
						Minneapolis, MN 55414					
						EPA Lab ID:*		MN00064			
		If yes, add information to Sampler Comments field								Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	G-Grab sample	24 hr (h:mm)	Start	End	Depth	Units (m or ft)	Sampling Method*	End Date (mm/dd/yyyy)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix*	Field Matrix*
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS										
QC-FR-Field Replicate Sample	CF-Composite w/AS										
QC-TB-Trip Blank Sample	D-T-Discrete time-paced w/AS										
QC-EB-Equipment Blank	D-F-Discrete flow-paced w/AS										
Treated-Mid-Treatment system sample	SW-GAS-Gas Sampling										
Treated-Post-Treatment system sample	Unknown-Unknown										
MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (h:mm)	End Time (h:mm)	Depth	Units (m or ft)	Sampling Method*	End Date (mm/dd/yyyy)	Complete ONLY if Method is CT, CF, D-T, or D-F <th>Lab Matrix*</th> <th>Field Matrix*</th>	Lab Matrix*	Field Matrix*
	Sample	7/1/2020									
	Sample	7/1/2020									
	Sample	7/1/2020									
	Sample	7/1/2020									
650-B2-NW	Sample	7/1/2020	8:21		0	0.5 ft	G			SD	Soil-Surf
650-B2-NE	Sample	7/1/2020	8:22		0	0.5 ft	G			SD	Soil-Surf
650-B2-SW	Sample	7/1/2020	8:28		0	0.5 ft	G			SD	Soil-Surf
650-B2-SE	Sample	7/1/2020	8:24		0	0.5 ft	G			SD	Soil-Surf
650-B3-NW	Sample	7/1/2020	8:30		0	0.5 ft	G			SD	Soil-Surf
650-B3-NE	Sample	7/1/2020	8:40		0	0.5 ft	G			SD	Soil-Surf
Sampler's Name:*		Eric Gabrielson				Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature:*								Address: 2042 W. 98th St, Bloomington, MN 55431			
Sampler's Organization:		Landmark Environmental, LLC						Courier Name:		Tracking#:	
Receiving Comments:											
Relinquished By/Affiliation								Date/Time		Accepted By/Affiliation	
(Sampler)								7/16/20		TN/Ace	
Page		8 of 42						Date/Time		7/16/20	

Project Managers: Michael Ginsbach, Sherry Van Duan, Angela Fogarty (emails shown above)

5.9 12.5
2.7 32.2 CEC 7/16/20
27.5

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 6 of 9	
Facility Code:*		PROJECT/CLIENT INFO				Turnaround Time: <u>10:00 AM</u>		COC ID:		FOR LAB USE ONLY	
Project Name:*		Program Code (MDH Lab Only):				Lab Name:		COC ID:		FOR LAB USE ONLY	
Project Manager:		Project Task Code:*				Address:		COC ID:		FOR LAB USE ONLY	
Potential Hazard?		If yes, add information to Sampler Comments field				EPA Lab ID:*		Minneapolis, MN 55414		Lab Work Order Sucker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		Lab Sample No.	
Sample-Routine Sample	G-Grain sample	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS
QC-FB-Field Replicate Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS
QC-TB-Trip Blank Sample	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS
QC-TB-Trip Replicate Sample	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS
QC-EB-Equipment Blank	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS
Treated-Mid-Treatment system sample	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS	SW-GAS-Flow-paced w/AS
Treated-Post-Treatment system sample	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown	Unknown-Unknown
MN Location Identifier*		Sample Type*		Start Date* (mm/dd/yyyy)		Start Time* (hh:mm)		End Date (mm/dd/yyyy)		End Time (hh:mm)	
650-B3-SW		Sample		7/10/2020		8:43					
650-B3-SE		Sample		7/10/2020		8:41					
650-B4-NW		Sample		7/10/2020		8:53					
650-B4-NE		Sample		7/10/2020		8:54					
650-B4-SW		Sample		7/10/2020		9:03					
650-B4-SE		Sample		7/10/2020		8:59					
650-B5-NW		Sample		7/10/2020		9:14					
650-B5-NE		Sample		7/10/2020		9:10					
650-B5-SW		Sample		7/10/2020		9:28					
650-B5-SE		Sample		7/10/2020		9:22					
Sampler's Name:*		Sampler's Signature:*		Phone#: 952-240-8935		Billing Organization:		Landmark Environmental, LLC		Acct#: 20093.01	
Eric Gabrielson						Address:		2042 W. 98th St., Bloomington, MN 55431			
Sampler's Organization:		Landmark Environmental, LLC		Courier Name:		Tracking#:					
Receiving Comments:											
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time					
MA		7/16/20		TN/Doe		7/16/20					
(Sampler)		16:54									

2.7 5.9 12.5
 27.5
 27.5

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 8 of 9				
		* Indicates a required field				Turnaround Time: ~~1-2 days~~		COC ID:		FOR LAB USE ONLY				
		PROJECT/CLIENT INFO				LABORATORY								
Facility Code:*		MND006148092				Lab Name: Pace Analytical - Minneapolis								
Project Name:*		3344 Highway 149 Adjacent Property, Eagan				Address: 1700 Elm St SE								
Project Manager:		michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com				Minneapolis, MN 55414								
Potential Hazard?		N				EPA Lab ID: MN00064				Lab Work Order Sticker				
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED						
Sample-Routine Sample	G-Grab sample	SW-GAS=Gas Sampling	Unknown-Ubiquitous	DR=Drinking Water	BI=Biological Material	WU=Ground-Underwater								
QC-FB=Field Blank Sample	CT=Composite, time-paced w/AS	SW-GAS=Gas Sampling	Unknown-Ubiquitous	WU=Nonpotable Water	OT=Other	WU=Surface Water								
QC-FB=Field Blank Sample	CF=Composite w/AS	SW-GAS=Gas Sampling	Unknown-Ubiquitous	SD=Soil/Solid	TS=Tissue	WU=Drinking Water								
QC-TB=Trip Blank Sample	D-T=Discrete time-paced w/AS	SW-GAS=Gas Sampling	Unknown-Ubiquitous	AR=Air		QC-BLANK=Artificial Blank Water								
QC-TB=Trip Blank Sample	D-F=Discrete flow-paced w/AS	SW-GAS=Gas Sampling	Unknown-Ubiquitous			Leachate=Leachate Sample								
QC-EB=Equipment Blank	SW-GAS=Gas Sampling	SW-GAS=Gas Sampling	Unknown-Ubiquitous			Air-Indoor=Indoor Air								
Treated-Mid-Treatment system sample						Gas-Soil=Soil Gas								
Treated-Pot-Treatment system sample														
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Units (m or ft)	Depth	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	ANALYSIS* PRESERV.	Lab Sample No.
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	1
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	2
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	3
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	4
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	5
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	6
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	7
		Sample	7/1/2020									sample hold	ANALYSIS* PRESERV.	8
650-B2-0.5-1		Sample	7/1/2020	8:31			G	1	1	SD	Soil-Sub	sample hold	ANALYSIS* PRESERV.	671
650-B2-1-1.5		Sample	7/1/2020	8:35			G	1	1.5	SD	Soil-Sub	sample hold	ANALYSIS* PRESERV.	672
Sampler's Name:*		Eric Gabrielson				Phone#: 952-240-8935		Billing Organization:		Landmark Environmental, LLC		Acct#: 20093.01		
Sampler's Signature:*								Address:		2042 W. 98th St., Bloomington, MN 55431				
Sampler's Organization:		Landmark Environmental, LLC						Courier Name:				Tracking#:		
Receiving Comments:								Date/Time		Accepted By/Affiliation		Date/Time		
Relinquished By/Affiliation								Date/Time		Accepted By/Affiliation		Date/Time		
(Sampler)								7/16/20		TN / Pse		7/16/20 / 17/19		
Page								16:56						

5.9 12.5
32.2 DEG 2.7
27.5

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:	COC Type: Standard	Page: 9 of 9
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Turnaround Time: * 48 hrs 3 day	COC ID:	FOR LAB USE ONLY
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		LABORATORY		
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064		
SAMPLE TYPES		SAMPLING METHODS		SAMPLE DETAILS		ANALYSIS REQUESTED
MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Sample No. #
650-B3-0.5-1	Sample	7/10/2020	8:48			73
650-B3-1-1.5	Sample	7/10/2020	8:50			74
650-B4-0.5-1	Sample	7/10/2020	9:07			75
650-B4-1-1.5	Sample	7/10/2020	9:10			76
650-B5-0.5-1	Sample	7/10/2020	9:31			77
650-B5-1-1.5	Sample	7/10/2020	9:33			78
						79
						80
						81
						82
						83
						84
						85
						86
						87
						88
						89
						90
						91
						92
						93
						94
						95
						96
						97
						98
						99
						100

S-9 12.5
 2.7 32.2 CEC 7/16/20
 27.5

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Page 1 of 1 Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>Landmark Env.</u>	Project #: WO# : 10525012
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/20/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____	Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C
Correction Factor: <u>True</u>	Cooler Temp Corrected w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C
Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: CEC 7/16/20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6.
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A		11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No		
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A		12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)		Positive for Res. ☐ Yes ☐ No ☐ See Exception
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A		Chlorine? ☐ Yes ☐ No ☐ See Exception
		pH Paper Lot# ☐
		Res. Chlorine ☐ 0-6 Roll ☐ 0-6 Strip ☐ 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A		13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A		
Trip Blank Present? ☐ Yes ☐ No ☒ N/A		14. ☐ See Exception
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A		Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION		Field Data Required? ☐ Yes ☐ No
Person Contacted: _____	Date/Time: _____	
Comments/Resolution: _____		

Project Manager Review: Anna Asp Date: 7/17/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

July 21, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525214

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525214001	654-A1	Solid	07/16/20 10:53	07/16/20 17:19
10525214002	654-A2	Solid	07/16/20 11:06	07/16/20 17:19
10525214003	654-A3	Solid	07/16/20 11:22	07/16/20 17:19
10525214004	654-A4	Solid	07/16/20 11:44	07/16/20 17:19
10525214005	654-A5	Solid	07/16/20 11:57	07/16/20 17:19
10525214006	654-A6	Solid	07/16/20 12:31	07/16/20 17:19
10525214007	654-A/B1	Solid	07/16/20 10:26	07/16/20 17:19
10525214008	654-A/B2	Solid	07/16/20 14:24	07/16/20 17:19
10525214009	654-B1	Solid	07/16/20 12:45	07/16/20 17:19
10525214010	654-B2	Solid	07/16/20 12:57	07/16/20 17:19
10525214011	654-B3	Solid	07/16/20 13:12	07/16/20 17:19
10525214012	654-B4	Solid	07/16/20 13:27	07/16/20 17:19
10525214013	654-B5	Solid	07/16/20 13:49	07/16/20 17:19
10525214014	654-B6	Solid	07/16/20 14:04	07/16/20 17:19
10525214015	M-5	Solid	07/16/20 10:51	07/16/20 17:19
10525214016	654-A1-NW	Solid	07/16/20 10:45	07/16/20 17:19
10525214017	654-A1-NE	Solid	07/16/20 10:47	07/16/20 17:19
10525214018	654-A1-SW	Solid	07/16/20 10:52	07/16/20 17:19
10525214019	654-A1-SE	Solid	07/16/20 10:49	07/16/20 17:19
10525214020	654-A2-NW	Solid	07/16/20 10:59	07/16/20 17:19
10525214021	654-A2-NE	Solid	07/16/20 11:01	07/16/20 17:19
10525214022	654-A2-SW	Solid	07/16/20 11:07	07/16/20 17:19
10525214023	654-A2-SE	Solid	07/16/20 11:03	07/16/20 17:19
10525214024	654-A3-NW	Solid	07/16/20 11:16	07/16/20 17:19
10525214025	654-A3-NE	Solid	07/16/20 11:18	07/16/20 17:19
10525214026	654-A3-SW	Solid	07/16/20 11:21	07/16/20 17:19
10525214027	654-A3-SE	Solid	07/16/20 11:20	07/16/20 17:19
10525214028	654-A4-NW	Solid	07/16/20 11:35	07/16/20 17:19
10525214029	654-A4-NE	Solid	07/16/20 11:38	07/16/20 17:19
10525214030	654-A4-SW	Solid	07/16/20 11:42	07/16/20 17:19
10525214031	654-A4-SE	Solid	07/16/20 11:40	07/16/20 17:19
10525214032	654-A5-NW	Solid	07/16/20 11:30	07/16/20 17:19
10525214033	654-A5-NE	Solid	07/16/20 11:52	07/16/20 17:19
10525214034	654-A5-SW	Solid	07/16/20 11:55	07/16/20 17:19
10525214035	654-A5-SE	Solid	07/16/20 11:54	07/16/20 17:19
10525214036	654-A6-NW	Solid	07/16/20 12:22	07/16/20 17:19
10525214037	654-A6-NE	Solid	07/16/20 12:25	07/16/20 17:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525214038	654-A6-SW	Solid	07/16/20 12:30	07/16/20 17:19
10525214039	654-A6-SE	Solid	07/16/20 12:27	07/16/20 17:19
10525214040	654-A/B1-NW	Solid	07/16/20 10:19	07/16/20 17:19
10525214041	654-A/B1-NE	Solid	07/16/20 10:20	07/16/20 17:19
10525214042	654-A/B1-SW	Solid	07/16/20 10:24	07/16/20 17:19
10525214043	654-A/B1-SE	Solid	07/16/20 10:22	07/16/20 17:19
10525214044	654-A/B2-NW	Solid	07/16/20 14:18	07/16/20 17:19
10525214045	654-A/B2-NE	Solid	07/16/20 14:19	07/16/20 17:19
10525214046	654-A/B2-SW	Solid	07/16/20 14:20	07/16/20 17:19
10525214047	654-A/B2-SE	Solid	07/16/20 14:20	07/16/20 17:19
10525214048	654-B1-NW	Solid	07/16/20 12:40	07/16/20 17:19
10525214049	654-B1-NE	Solid	07/16/20 12:41	07/16/20 17:19
10525214050	654-B1-SW	Solid	07/16/20 12:44	07/16/20 17:19
10525214051	654-B1-SE	Solid	07/16/20 12:43	07/16/20 17:19
10525214052	654-B2-NW	Solid	07/16/20 12:51	07/16/20 17:19
10525214053	654-B2-NE	Solid	07/16/20 12:52	07/16/20 17:19
10525214054	654-B2-SW	Solid	07/16/20 12:56	07/16/20 17:19
10525214055	654-B2-SE	Solid	07/16/20 12:55	07/16/20 17:19
10525214056	654-B3-NW	Solid	07/16/20 13:04	07/16/20 17:19
10525214057	654-B3-NE	Solid	07/16/20 13:06	07/16/20 17:19
10525214058	654-B3-SW	Solid	07/16/20 13:25	07/16/20 17:19
10525214059	654-B3-SE	Solid	07/16/20 13:10	07/16/20 17:19
10525214060	654-B4-NW	Solid	07/16/20 13:18	07/16/20 17:19
10525214061	654-B4-NE	Solid	07/16/20 13:20	07/16/20 17:19
10525214062	654-B4-SW	Solid	07/16/20 13:22	07/16/20 17:19
10525214063	654-B4-SE	Solid	07/16/20 13:25	07/16/20 17:19
10525214064	654-B5-NW	Solid	07/16/20 13:38	07/16/20 17:19
10525214065	654-B5-NE	Solid	07/16/20 13:43	07/16/20 17:19
10525214066	654-B5-SW	Solid	07/16/20 13:48	07/16/20 17:19
10525214067	654-B5-SE	Solid	07/16/20 13:46	07/16/20 17:19
10525214068	654-B6-NW	Solid	07/16/20 13:57	07/16/20 17:19
10525214069	654-B6-NE	Solid	07/16/20 14:00	07/16/20 17:19
10525214070	654-B6-SW	Solid	07/16/20 14:03	07/16/20 17:19
10525214071	654-B6-SE	Solid	07/16/20 14:01	07/16/20 17:19
10525214072	654-A1-0.5-1	Solid	07/16/20 10:56	07/16/20 17:19
10525214073	654-A1-1-1.5	Solid	07/16/20 10:57	07/16/20 17:19
10525214074	654-A2-0.5-1	Solid	07/16/20 11:13	07/16/20 17:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525214075	654-A2-1-1.5	Solid	07/16/20 11:15	07/16/20 17:19
10525214076	654-A3-0.5-1	Solid	07/16/20 11:25	07/16/20 17:19
10525214077	654-A3-1-1.5	Solid	07/16/20 11:26	07/16/20 17:19
10525214078	654-A4-0.5-1	Solid	07/16/20 11:45	07/16/20 17:19
10525214079	654-A4-1-1.5	Solid	07/16/20 11:45	07/16/20 17:19
10525214080	654-A5-0.5-1	Solid	07/16/20 11:59	07/16/20 17:19
10525214081	654-A5-1-1.5	Solid	07/16/20 12:00	07/16/20 17:19
10525214082	654-A6-0.5-1	Solid	07/16/20 12:34	07/16/20 17:19
10525214083	654-A6-1-1.5	Solid	07/16/20 12:34	07/16/20 17:19
10525214084	654-A/B1-0.5-1	Solid	07/16/20 10:27	07/16/20 17:19
10525214085	654-A/B1-1-1.5	Solid	07/16/20 10:30	07/16/20 17:19
10525214086	654-A/B2-0.5-1	Solid	07/16/20 14:25	07/16/20 17:19
10525214087	654-A/B2-1-1.5	Solid	07/16/20 14:26	07/16/20 17:19
10525214088	654-B1-0.5-1	Solid	07/16/20 12:47	07/16/20 17:19
10525214089	654-B1-1-1.5	Solid	07/16/20 12:48	07/16/20 17:19
10525214090	654-B2-0.5-1	Solid	07/16/20 12:59	07/16/20 17:19
10525214091	654-B2-1-1.5	Solid	07/16/20 13:00	07/16/20 17:19
10525214092	654-B3-0.5-1	Solid	07/16/20 13:12	07/16/20 17:19
10525214093	654-B3-1-1.5	Solid	07/16/20 13:14	07/16/20 17:19
10525214094	654-B4-0.5-1	Solid	07/16/20 13:30	07/16/20 17:19
10525214095	654-B4-1-1.5	Solid	07/16/20 13:33	07/16/20 17:19
10525214096	654-B5-0.5-1	Solid	07/16/20 13:52	07/16/20 17:19
10525214097	654-B5-1-1.5	Solid	07/16/20 13:54	07/16/20 17:19
10525214098	654-B6-0.5-1	Solid	07/16/20 14:06	07/16/20 17:19
10525214099	654-B6-1-1.5	Solid	07/16/20 14:09	07/16/20 17:19

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525214001	654-A1	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214002	654-A2	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214003	654-A3	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214004	654-A4	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214005	654-A5	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214006	654-A6	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214007	654-A/B1	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214008	654-A/B2	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214009	654-B1	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214010	654-B2	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214011	654-B3	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214012	654-B4	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214013	654-B5	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214014	654-B6	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525214015	M-5	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A1 **Lab ID: 10525214001** Collected: 07/16/20 10:53 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	106	mg/kg	0.57	0.13	1	07/19/20 13:33	07/20/20 11:12	7439-92-1	M1
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.5	%	0.10	0.10	1		07/20/20 10:54		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A2 **Lab ID: 10525214002** Collected: 07/16/20 11:06 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	96.6	mg/kg	0.54	0.12	1	07/19/20 13:33	07/20/20 11:26	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.7	%	0.10	0.10	1		07/20/20 10:54		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A3 **Lab ID: 10525214003** Collected: 07/16/20 11:22 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Minneapolis									
Lead	107	mg/kg	0.60	0.14	1	07/19/20 13:33	07/20/20 11:28	7439-92-1	
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	18.0	%	0.10	0.10	1		07/20/20 10:54		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A4 **Lab ID: 10525214004** Collected: 07/16/20 11:44 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	70.7	mg/kg	0.65	0.15	1	07/19/20 13:33	07/20/20 11:29	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	23.7	%	0.10	0.10	1		07/20/20 10:54		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A5 **Lab ID: 10525214005** Collected: 07/16/20 11:57 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	78.9	mg/kg	0.58	0.13	1	07/19/20 13:33	07/20/20 11:31	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.5	%	0.10	0.10	1		07/20/20 10:54		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A6 **Lab ID: 10525214006** Collected: 07/16/20 12:31 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	127	mg/kg	0.55	0.12	1	07/19/20 13:33	07/20/20 11:33	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.4	%	0.10	0.10	1		07/20/20 10:55		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A/B1 **Lab ID: 10525214007** Collected: 07/16/20 10:26 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	94.3	mg/kg	0.55	0.12	1	07/19/20 13:33	07/20/20 11:34	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.6	%	0.10	0.10	1		07/20/20 10:55		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-A/B2 **Lab ID: 10525214008** Collected: 07/16/20 14:24 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	28.1	mg/kg	0.53	0.12	1	07/19/20 13:33	07/20/20 11:36	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	8.4	%	0.10	0.10	1		07/20/20 10:55		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-B1 **Lab ID: 10525214009** Collected: 07/16/20 12:45 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3050B									
Pace Analytical Services - Minneapolis									
Lead	64.0	mg/kg	0.60	0.14	1	07/19/20 13:33	07/20/20 11:38	7439-92-1	
Dry Weight / %M by ASTM D2974									
Analytical Method: ASTM D2974									
Pace Analytical Services - Minneapolis									
Percent Moisture	20.2	%	0.10	0.10	1		07/20/20 10:55		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-B2 **Lab ID: 10525214010** Collected: 07/16/20 12:57 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	51.6	mg/kg	0.60	0.14	1	07/19/20 13:33	07/20/20 11:39	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.3	%	0.10	0.10	1		07/20/20 10:55		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-B3 **Lab ID: 10525214011** Collected: 07/16/20 13:12 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	61.6	mg/kg	0.59	0.13	1	07/19/20 13:33	07/20/20 11:41	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.9	%	0.10	0.10	1		07/20/20 10:55		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-B4 **Lab ID: 10525214012** Collected: 07/16/20 13:27 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	90.7	mg/kg	0.58	0.13	1	07/19/20 13:33	07/20/20 11:51	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.7	%	0.10	0.10	1		07/20/20 10:56		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-B5 **Lab ID: 10525214013** Collected: 07/16/20 13:49 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	94.9	mg/kg	0.54	0.12	1	07/19/20 13:33	07/20/20 11:53	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.7	%	0.10	0.10	1		07/20/20 10:56		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: 654-B6 **Lab ID: 10525214014** Collected: 07/16/20 14:04 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	56.5	mg/kg	0.54	0.12	1	07/19/20 13:33	07/20/20 11:55	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.7	%	0.10	0.10	1		07/20/20 10:56		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Sample: M-5 **Lab ID: 10525214015** Collected: 07/16/20 10:51 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	98.3	mg/kg	0.55	0.13	1	07/19/20 13:33	07/20/20 11:56	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.5	%	0.10	0.10	1		07/20/20 10:56		N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

QC Batch:	687709	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525214001, 10525214002, 10525214003, 10525214004, 10525214005, 10525214006, 10525214007, 10525214008, 10525214009, 10525214010, 10525214011, 10525214012, 10525214013, 10525214014, 10525214015		

METHOD BLANK:	3678254	Matrix:	Solid
Associated Lab Samples:	10525214001, 10525214002, 10525214003, 10525214004, 10525214005, 10525214006, 10525214007, 10525214008, 10525214009, 10525214010, 10525214011, 10525214012, 10525214013, 10525214014, 10525214015		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/20/20 11:09	

LABORATORY CONTROL SAMPLE: 3678255						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.3	48.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3678256					3678257							
Parameter	Units	10525214001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	106	54	55	129	129	42	42	75-125	1	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

QC Batch:	687800	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525214001, 10525214002, 10525214003, 10525214004, 10525214005, 10525214006, 10525214007, 10525214008, 10525214009, 10525214010, 10525214011, 10525214012, 10525214013, 10525214014, 10525214015		

SAMPLE DUPLICATE: 3678552

Parameter	Units	10525214001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.5	14.4	7	30	N2

SAMPLE DUPLICATE: 3678553

Parameter	Units	10525217005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.3	15.7	10	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525214001	654-A1	EPA 3050B	687709	EPA 6010D	687840
10525214002	654-A2	EPA 3050B	687709	EPA 6010D	687840
10525214003	654-A3	EPA 3050B	687709	EPA 6010D	687840
10525214004	654-A4	EPA 3050B	687709	EPA 6010D	687840
10525214005	654-A5	EPA 3050B	687709	EPA 6010D	687840
10525214006	654-A6	EPA 3050B	687709	EPA 6010D	687840
10525214007	654-A/B1	EPA 3050B	687709	EPA 6010D	687840
10525214008	654-A/B2	EPA 3050B	687709	EPA 6010D	687840
10525214009	654-B1	EPA 3050B	687709	EPA 6010D	687840
10525214010	654-B2	EPA 3050B	687709	EPA 6010D	687840
10525214011	654-B3	EPA 3050B	687709	EPA 6010D	687840
10525214012	654-B4	EPA 3050B	687709	EPA 6010D	687840
10525214013	654-B5	EPA 3050B	687709	EPA 6010D	687840
10525214014	654-B6	EPA 3050B	687709	EPA 6010D	687840
10525214015	M-5	EPA 3050B	687709	EPA 6010D	687840
10525214001	654-A1	ASTM D2974	687800		
10525214002	654-A2	ASTM D2974	687800		
10525214003	654-A3	ASTM D2974	687800		
10525214004	654-A4	ASTM D2974	687800		
10525214005	654-A5	ASTM D2974	687800		
10525214006	654-A6	ASTM D2974	687800		
10525214007	654-A/B1	ASTM D2974	687800		
10525214008	654-A/B2	ASTM D2974	687800		
10525214009	654-B1	ASTM D2974	687800		
10525214010	654-B2	ASTM D2974	687800		
10525214011	654-B3	ASTM D2974	687800		
10525214012	654-B4	ASTM D2974	687800		
10525214013	654-B5	ASTM D2974	687800		
10525214014	654-B6	ASTM D2974	687800		
10525214015	M-5	ASTM D2974	687800		

REPORT OF LABORATORY ANALYSIS

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WO#: 10525214



10525214

		MPCA Chain-of-Custody Form revision 2017.0328 * indicates a required field				Work Order Number: _____ Turnaround Time: Rush 3 day		COC Type: Standard COC ID: _____		Page: _____	
Facility Code: * MND006148092		PROJECT/CLIENT INFO				LABORATORY					
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only): _____ Project Task Code: * PRJ08104				Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE					
Project Manager: michael.ginsbach@state.mn.us, svandryn@landmarkenv.com, angela.fogarty@gopherresource.com						EPA Lab ID: * MN00064					
Potential Hazard? N		If yes, add information to Sampler Comments field									

SAMPLE DETAILS										ANALYSIS REQUESTED									
MN Location Identifier*	Sample Type*	Sample Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth		Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES Wtr-Ground=Groundwater Wtr-Surf=Surface Water Wtr-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas	Lab Sample No.	#	
				Start	End														
				Units (m or ft)	Units (m or ft)														
654-A1	Sample	7/1/2020	10:53	0	0.5	ft	CO			SD	Soil-Surf						W01	1	
654-A2	Sample	7/1/2020	11:04	0	0.5	ft	CO			SD	Soil-Surf						W02	2	
654-A3	Sample	7/1/2020	11:27	0	0.5	ft	CO			SD	Soil-Surf						W03	3	
654-A4	Sample	7/1/2020	11:44	0	0.5	ft	CO			SD	Soil-Surf						W04	4	
654-A5	Sample	7/1/2020	11:57	0	0.5	ft	CO			SD	Soil-Surf						W05	5	
654-A6	Sample	7/1/2020	12:31	0	0.5	ft	CO			SD	Soil-Surf						W06	6	
654-A/B1	Sample	7/1/2020	10:29	0	0.5	ft	CO			SD	Soil-Surf						W07	7	
654-A/B2	Sample	7/1/2020	11:34	0	0.5	ft	CO			SD	Soil-Surf						W08	8	
654-B1	Sample	7/1/2020	12:45	0	0.5	ft	CO			SD	Soil-Surf						W09	9	
654-B2	Sample	7/1/2020	10:37	0	0.5	ft	CO			SD	Soil-Surf						W10	10	

Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature: *				Address: 2042 W. 98th St., Bloomington, MN 55431			
Sampler's Organization:				Courier Name:		Tracking#:	

Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time	
		7/13/20		TTV Dec		7/16/20/1719	
Receiving Comments:							

5.9° 27.5°
 32.227 12.5
 CES 7/16/20

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form
revision 2017.0328

* indicates a required field

Work Order Number: **20093.01**

COC Type: Standard

Page: 3 of 11

Facility Code: **MND006148092**

Project Name: **3344 Highway 149 Adjacent Property, Eagan**

Project Manager: **michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N**

Program Code (MDH Lab Only):

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: **MN00064**

Turnaround Time: **1 day**

COC ID:

LABORATORY

ANALYSIS REQUESTED

SAMPLE TYPES	SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS*	# of Cont	SAMPLER COMMENTS (filter volume, special handling, etc.)	Lab Sample No.
	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Method*				
QC-Blank Sample	QC-Blank Sample	7/10/2020	10:45			G	0.5	ft	Sample hold	016
QC-Field Blank Sample	QC-Field Blank Sample	7/10/2020	10:47			G	0.5	ft	Sample hold	017
QC-Field Replicate Sample	QC-Field Replicate Sample	7/10/2020	10:52			G	0.5	ft	Sample hold	018
QC-Trip Blank Sample	QC-Trip Blank Sample	7/10/2020	10:44			G	0.5	ft	Sample hold	019
QC-Field Blank Sample	QC-Field Blank Sample	7/10/2020	10:59			G	0.5	ft	Sample hold	020
QC-Field Replicate Sample	QC-Field Replicate Sample	7/10/2020	11:01			G	0.5	ft	Sample hold	021
QC-Trip Blank Sample	QC-Trip Blank Sample	7/10/2020	11:07			G	0.5	ft	Sample hold	022
QC-Field Blank Sample	QC-Field Blank Sample	7/10/2020	11:03			G	0.5	ft	Sample hold	023
QC-Field Replicate Sample	QC-Field Replicate Sample	7/10/2020	11:10			G	0.5	ft	Sample hold	024
QC-Trip Blank Sample	QC-Trip Blank Sample	7/10/2020	11:10			G	0.5	ft	Sample hold	025

LABORATORY

ANALYSIS REQUESTED

Billing Organization: Landmark Environmental, LLC

Address: 2042 W. 98th St., Bloomington, MN 55431

Phone#: 952-240-8935

Courier Name: Landmark Environmental, LLC

Tracking#:

Relinquished By/Affiliation

Date/Time

Accepted By/Affiliation

Date/Time

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Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 5 of 11							
Facility Code: * MND006148092		* indicates a required field				Turnaround Time: ~~2-3 days~~		COC ID:		FOR LAB USE ONLY							
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		PROJECT/CLIENT INFO				LABORATORY											
Project Manager: michael.ginsbach@state.mn.us, svandun@landmarkenv.com, angela.fogarty@gopherresource.com		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Minneapolis, MN 55414							
Potential Hazard?		N				If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064		Lab Work Order Sicker							
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED									
Sample=Baseline Sample	Ge-Grab sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample						
QC-FB=Field Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS						
QC-FB=Field Replicate Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS						
QC-TB=Trip Blank Sample	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS						
QC-FB=Baseline Blank	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS	CT-Composite, time-paced w/AS						
Treated-Mid-Treatment system sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample	SW-GAS sample						
Treated-Post-Treatment system sample	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown	Unknown=Unknown						
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Depth	End	Start	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESEV.	Lab Sample No.
654-A6-NW		Sample	7/10/2020	12:22			G	ft	0.5	0	SD	Soil-Surf	sample hold				036
654-A6-NE		Sample	7/10/2020	12:25			G	ft	0.5	0	SD	Soil-Surf	sample hold				037
654-A6-SW		Sample	7/10/2020	12:30			G	ft	0.5	0	SD	Soil-Surf	sample hold				038
654-A6-SE		Sample	7/10/2020	12:37			G	ft	0.5	0	SD	Soil-Surf	sample hold				039
654-A/B1-NW		Sample	7/10/2020	10:19			G	ft	0.5	0	SD	Soil-Surf	sample hold				040
654-A/B1-NE		Sample	7/10/2020	10:20			G	ft	0.5	0	SD	Soil-Surf	sample hold				041
654-A/B1-SW		Sample	7/10/2020	10:24			G	ft	0.5	0	SD	Soil-Surf	sample hold				042
654-A/B1-SE		Sample	7/10/2020	10:22			G	ft	0.5	0	SD	Soil-Surf	sample hold				043
654-A/B2-NW		Sample	7/10/2020	14:18			G	ft	0.5	0	SD	Soil-Surf	sample hold				044
654-A/B2-NE		Sample	7/10/2020	14:19			G	ft	0.5	0	SD	Soil-Surf	sample hold				045
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acct#: 20093.01									
Sampler's Signature: *				Courier Name: Landmark Environmental, LLC		Tracking#:											
Receiving Comments:				Date/Time: 7/16/20		Accepted By/Affiliation: TN/Bsa		Date/Time: 7/16/20									
Relinquished By/Affiliation:				Date/Time: 7/16/20		Accepted By/Affiliation: TN/Bsa		Date/Time: 7/16/20									

Project Managers: Michael Ginsbach, Sherry Van Duyn, Angela Fogarty (emails shown above)

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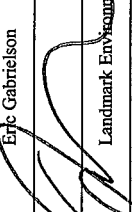
Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 6 of 11	
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan				Lab Name: Pace Analytical - Minneapolis		COC ID: <u>LABORATORY</u>		FOR LAB USE ONLY	
Project Manager: * michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PR08104				Address: 1700 Elm St SE		COC ID: <u>LABORATORY</u>		Lab Work Order Sticker	
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN000064		COC ID: <u>LABORATORY</u>		Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	G-Grab Sample	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	ANALYSIS*	Lab Sample No. #
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	7/6/2020	14:20	0.5	G			SD	Soil-Surf	Lead, 6010D	046
QC-FB-Field Replicate Sample	D-Discrete, time-paced w/AS	7/6/2020	14:20	0.5	G			SD	Soil-Surf		047
QC-FB-Trip Blank Sample	SW-GAS=Gas Sampling	7/6/2020	12:40	0.5	G			SD	Soil-Surf		048
QC-FB-Trip Blank Sample	Unknown=Unknown	7/6/2020	12:41	0.5	G			SD	Soil-Surf		049
QC-FB-Trip Blank Sample		7/6/2020	12:41	0.5	G			SD	Soil-Surf		050
QC-FB-Trip Blank Sample		7/6/2020	12:43	0.5	G			SD	Soil-Surf		051
QC-FB-Trip Blank Sample		7/6/2020	12:51	0.5	G			SD	Soil-Surf		052
QC-FB-Trip Blank Sample		7/6/2020	12:52	0.5	G			SD	Soil-Surf		053
QC-FB-Trip Blank Sample		7/6/2020	12:56	0.5	G			SD	Soil-Surf		054
QC-FB-Trip Blank Sample		7/6/2020	12:55	0.5	G			SD	Soil-Surf		055
Sampler's Name: * Eric Gabrielson		Phone #: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Acc #: 20093.01			
Sampler's Signature: *				Courier Name: Landmark Environmental, LLC		Tracking #:					
Receiving Comments:				Date/Time: 7/16/20		Accepted By/Affiliation: JN/Ben		Date/Time: 7/16/20			
Relinquished By/Affiliation:				Date/Time: 17:01							
(Sampler)											

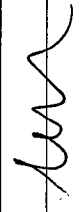
Principal Managers: Michael Ginsbach, Sherry Van Duren, Angela Fogarty (emails shown above)

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		MPCA Chain-of-Custody Form revision 2017/03/28 * indicates a required field				Work Order Number: _____ COC Type: Standard Page: 10 of 11	
Facility Code: MND006148092		Project/CLIENT INFO				Turnaround Time: ~~24-48 hrs~~ COC ID: _____	
Project Name: 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only): _____				FOR LAB USE ONLY	
Project Manager: michael.ginsbach@state.mn.us, svandurn@landmarkenv.com, angela.fogarty@gopherresource.com		Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414				Lab Work Order Sticker	
Potential Hazard? N		EPA Lab ID: MN000064					

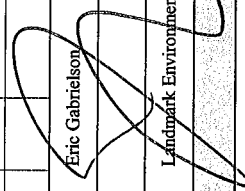
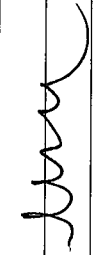
SAMPLE DETAILS										ANALYSIS REQUESTED									
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth		Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix*	Field Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES Wtr-Ground-Surface Water Wtr-Surf-Surface Water Wtr-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas	Lab Sample No.	#
					Start	End													
					Units (m or ft)	Units (m or ft)													
654-A/B2-0.5-1		Sample	7/16/2020	13:25	0.5	1	G				SD	Soil-Sub	sample hold					036	1
654-A/B2-1-1.5		Sample	7/16/2020	13:26	1	1.5	G				SD	Soil-Sub	sample hold					037	2
654-B1-0.5-1		Sample	7/16/2020	13:47	0.5	1	G				SD	Soil-Sub	sample hold					038	3
654-B1-1-1.5		Sample	7/16/2020	13:49	1	1.5	G				SD	Soil-Sub	sample hold					039	4
654-B2-0.5-1		Sample	7/16/2020	13:59	0.5	1	G				SD	Soil-Sub	sample hold					040	5
654-B2-1-1.5		Sample	7/16/2020	13:00	1	1.5	G				SD	Soil-Sub	sample hold					041	6
654-B3-0.5-1		Sample	7/16/2020	13:12	0.5	1	G				SD	Soil-Sub	sample hold					042	7
654-B3-1-1.5		Sample	7/16/2020	13:14	1	1.5	G				SD	Soil-Sub	sample hold					043	8
654-B4-0.5-1		Sample	7/16/2020	13:30	0.5	1	G				SD	Soil-Sub	sample hold					044	9
654-B4-1-1.5		Sample	7/16/2020	13:33	1	1.5	G				SD	Soil-Sub	sample hold					045	10

Sampler's Name: Eric Gabrielson		Phone: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acc#: 20093.01	
Sampler's Signature: 				Address: 2042 W. 98th St., Bloomington, MN 55431			
Sampler's Organization: Landmark Environmental, LLC				Courier Name:		Tracking#:	

Receiving Comments:		Date/Time		Accepted By/Affiliation		Date/Time	
		7/16/2020		TN / Bae		7/16/2020	
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time	
(Sampler)							

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 Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revised 2017.03.28 * indicates a required field				Work Order Number: Turnaround Time: <u>Fast 3 Day</u>		COC Type: Standard COC ID:		Page: 11 of 11									
Facility Code: * MND006148092		PROJECT/CLIENT INFO Program Code (MDH Lab Only): Project Task Code: * PRJ08104				LABORATORY Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414		FOR LAB USE ONLY		Lab Work Order Sticker									
Project Manager: michael.ginsboch@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		Potential Hazard? N If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064													
SAMPLE DETAILS																			
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (in or ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	Lab Matrix*	Field Matrix*	AIS	FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED	Lab Sample No.	#	
																			Sample Comments (filter volume, special handling, etc.)
651-B6-0.5-1		Sample	7/1/2020	11:50	0.5	G				SD	Soil-Sub								1
651-B4-1.5		Sample	7/1/2020	11:51	1	G				SD	Soil-Sub								2
651-B5-0.5-1		Sample	7/1/2020	13:52	0.5	G				SD	Soil-Sub								3
651-B5-1-1.5		Sample	7/1/2020	13:54	1	G				SD	Soil-Sub								4
651-B6-0.5-1		Sample	7/1/2020	14:06	0.5	G				SD	Soil-Sub								5
651-B6-1-1.5		Sample	7/1/2020	14:09	1	G				SD	Soil-Sub								6
																			7
																			8
																			9
																			10

Holder's Name: Eric Gabrielson
Holder's Signature: 
Holder's Organization: Landmark Environmental, LLC
Receiving Comments:
Relinquished By/Affiliation: 
Date/Time: 7/16/20 17:01
Accepted By/Affiliation: TN/p2cc
Date/Time: 7/16/20 17:19
Project Managers: Michael Ginsboch, Sherry Van Duren, Angela Fogarty (emails shown above)

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	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>Landmark Env.</u>	Project #: WO# : 10525214
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____	Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C
Correction Factor: <u>True</u>	Cooler Temp Corrected w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C
Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: CEG 7/16/20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	9.
Containers Intact? ☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Positive for Res. ☐ Yes ☐ No ☐ See Exception
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Chlorine? ☐ Yes ☐ No pH Paper Lot# ☐
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased): _____
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION Person Contacted: _____ Date/Time: _____ Comments/Resolution: _____	Field Data Required? ☐ Yes ☐ No

Project Manager Review: CEG Date: 7/17/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

July 23, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525218

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory between July 16, 2020 and July 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525218001	658-A/B1	Solid	07/16/20 14:35	07/16/20 17:19
10525218002	M6	Solid	07/16/20 14:35	07/16/20 17:19
10525218003	658-A/B1-NW	Solid	07/16/20 14:30	07/16/20 17:19
10525218004	658-A/B1-NE	Solid	07/16/20 14:30	07/16/20 17:19
10525218005	658-A/B1-SW	Solid	07/16/20 14:34	07/16/20 17:19
10525218006	658-A/B1-SE	Solid	07/16/20 14:32	07/16/20 17:19
10525218007	658-A/B1-0.5-1	Solid	07/16/20 14:38	07/16/20 17:19
10525218008	658-A/B1-1-1.5	Solid	07/16/20 14:39	07/16/20 17:19
10525218009	658-E1-NW	Solid	07/20/20 08:20	07/20/20 16:37
10525218010	658-E1-NE	Solid	07/20/20 08:22	07/20/20 16:37
10525218011	658-E1-SW	Solid	07/20/20 08:26	07/20/20 16:37
10525218012	658-E1-SE	Solid	07/20/20 08:24	07/20/20 16:37
10525218013	658-E2-NW	Solid	07/20/20 08:35	07/20/20 16:37
10525218014	658-E2-NE	Solid	07/20/20 08:36	07/20/20 16:37
10525218015	658-E2-SW	Solid	07/20/20 08:41	07/20/20 16:37
10525218016	658-E2-SE	Solid	07/20/20 08:40	07/20/20 16:37
10525218017	658-E3-NW	Solid	07/20/20 08:47	07/20/20 16:37
10525218018	658-E3-NE	Solid	07/20/20 08:48	07/20/20 16:37
10525218019	658-E3-SW	Solid	07/20/20 08:51	07/20/20 16:37
10525218020	658-E3-SE	Solid	07/20/20 08:50	07/20/20 16:37
10525218021	658-E4-NW	Solid	07/20/20 08:57	07/20/20 16:37
10525218022	658-E4-NE	Solid	07/20/20 08:59	07/20/20 16:37
10525218023	658-E4-SW	Solid	07/20/20 09:03	07/20/20 16:37
10525218024	658-E4-SE	Solid	07/20/20 09:00	07/20/20 16:37
10525218025	658-E5-NW	Solid	07/20/20 09:09	07/20/20 16:37
10525218026	658-E5-NE	Solid	07/20/20 09:10	07/20/20 16:37
10525218027	658-E5-SW	Solid	07/20/20 09:14	07/20/20 16:37
10525218028	658-E5-SE	Solid	07/20/20 09:12	07/20/20 16:37
10525218029	658-E1	Solid	07/20/20 08:32	07/20/20 16:37
10525218030	658-E2	Solid	07/20/20 08:42	07/20/20 16:37
10525218031	658-E3	Solid	07/20/20 08:51	07/20/20 16:37
10525218032	658-E4	Solid	07/20/20 09:04	07/20/20 16:37
10525218033	658-E5	Solid	07/20/20 09:15	07/20/20 16:37
10525218034	658-E6	Solid	07/20/20 09:27	07/20/20 16:37
10525218035	658-E6-NW	Solid	07/20/20 09:22	07/20/20 16:37
10525218036	658-E6-NE	Solid	07/20/20 09:24	07/20/20 16:37
10525218037	658-E6-SW	Solid	07/20/20 09:27	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525218038	658-E6-SE	Solid	07/20/20 09:25	07/20/20 16:37
10525218039	658-E6-0.5-1	Solid	07/20/20 09:28	07/20/20 16:37
10525218040	658-E6-1-1.5	Solid	07/20/20 09:30	07/20/20 16:37
10525218041	658-E1-0.5-1	Solid	07/20/20 08:33	07/20/20 16:37
10525218042	658-E1-1-1.5	Solid	07/20/20 08:35	07/20/20 16:37
10525218043	658-E2-0.5-1	Solid	07/20/20 08:45	07/20/20 16:37
10525218044	658-E2-1-1.5	Solid	07/20/20 08:46	07/20/20 16:37
10525218045	658-E3-0.5-1	Solid	07/20/20 08:52	07/20/20 16:37
10525218046	658-E3-1-1.5	Solid	07/20/20 08:53	07/20/20 16:37
10525218047	658-E4-0.5-1	Solid	07/20/20 09:06	07/20/20 16:37
10525218048	658-E4-1-1.5	Solid	07/20/20 09:07	07/20/20 16:37
10525218049	658-E5-0.5-1	Solid	07/20/20 09:16	07/20/20 16:37
10525218050	658-E5-1-1.5	Solid	07/20/20 09:17	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525218001	658-A/B1	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218002	M6	EPA 6010D	IP	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218029	658-E1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218030	658-E2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218031	658-E3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218032	658-E4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218033	658-E5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525218034	658-E6	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-A/B1 **Lab ID: 10525218001** Collected: 07/16/20 14:35 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	156	mg/kg	0.54	0.12	1	07/19/20 13:30	07/20/20 12:27	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.2	%	0.10	0.10	1		07/20/20 11:45		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: M6 **Lab ID: 10525218002** Collected: 07/16/20 14:35 Received: 07/16/20 17:19 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	153	mg/kg	0.57	0.13	1	07/19/20 13:30	07/20/20 12:32	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.0	%	0.10	0.10	1		07/20/20 11:46		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-E1 **Lab ID: 10525218029** Collected: 07/20/20 08:32 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	109	mg/kg	0.55	0.13	1	07/22/20 10:30	07/22/20 17:27	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.4	%	0.10	0.10	1		07/21/20 13:48		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-E2 **Lab ID: 10525218030** Collected: 07/20/20 08:42 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	81.9	mg/kg	0.55	0.12	1	07/22/20 10:30	07/22/20 17:29	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.9	%	0.10	0.10	1		07/21/20 13:48		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-E3 **Lab ID: 10525218031** Collected: 07/20/20 08:51 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	73.3	mg/kg	0.60	0.14	1	07/22/20 10:30	07/22/20 17:30	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.7	%	0.10	0.10	1		07/21/20 13:48		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-E4 **Lab ID: 10525218032** Collected: 07/20/20 09:04 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	55.5	mg/kg	0.57	0.13	1	07/22/20 10:30	07/22/20 17:35	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.2	%	0.10	0.10	1		07/21/20 13:48		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-E5 **Lab ID: 10525218033** Collected: 07/20/20 09:15 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	66.8	mg/kg	0.58	0.13	1	07/22/20 10:30	07/22/20 17:37	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.9	%	0.10	0.10	1		07/21/20 13:49		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Sample: 658-E6 **Lab ID: 10525218034** Collected: 07/20/20 09:27 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	108	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 17:39	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.4	%	0.10	0.10	1		07/21/20 13:49		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

QC Batch: 687710

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525218001, 10525218002

METHOD BLANK: 3678258

Matrix: Solid

Associated Lab Samples: 10525218001, 10525218002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/20/20 12:07	

LABORATORY CONTROL SAMPLE: 3678259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	51.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3678260 3678261

Parameter	Units	10525012051 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	63.3	59.9	60.4	119	101	92	62	75-125	16	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

QC Batch: 688259

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525218029, 10525218030, 10525218031, 10525218032, 10525218033, 10525218034

METHOD BLANK: 3681505

Matrix: Solid

Associated Lab Samples: 10525218029, 10525218030, 10525218031, 10525218032, 10525218033, 10525218034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/22/20 16:49	

LABORATORY CONTROL SAMPLE: 3681506

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49.5	49.6	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681507 3681508

Parameter	Units	10525503001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	58.9	56.6	55.1	130	111	126	95	75-125	15	20	M1

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

QC Batch: 687813

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525218001, 10525218002

SAMPLE DUPLICATE: 3678582

Parameter	Units	10525012051 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.2	16.7	24	30	N2

SAMPLE DUPLICATE: 3678583

Parameter	Units	10524399016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.6	30.2	1	30	N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

QC Batch:	688092	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525218029, 10525218030, 10525218031, 10525218032, 10525218033, 10525218034

SAMPLE DUPLICATE: 3680144

Parameter	Units	10524601006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.8	23.4	3	30	N2

SAMPLE DUPLICATE: 3680265

Parameter	Units	10524501001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.6	17.9	4	30	N2

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525218

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525218

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525218

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525218001	658-A/B1	EPA 3050B	687710	EPA 6010D	687841
10525218002	M6	EPA 3050B	687710	EPA 6010D	687841
10525218029	658-E1	EPA 3050B	688259	EPA 6010D	688508
10525218030	658-E2	EPA 3050B	688259	EPA 6010D	688508
10525218031	658-E3	EPA 3050B	688259	EPA 6010D	688508
10525218032	658-E4	EPA 3050B	688259	EPA 6010D	688508
10525218033	658-E5	EPA 3050B	688259	EPA 6010D	688508
10525218034	658-E6	EPA 3050B	688259	EPA 6010D	688508
10525218001	658-A/B1	ASTM D2974	687813		
10525218002	M6	ASTM D2974	687813		
10525218029	658-E1	ASTM D2974	688092		
10525218030	658-E2	ASTM D2974	688092		
10525218031	658-E3	ASTM D2974	688092		
10525218032	658-E4	ASTM D2974	688092		
10525218033	658-E5	ASTM D2974	688092		
10525218034	658-E6	ASTM D2974	688092		

REPORT OF LABORATORY ANALYSIS

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10525218

		MPCA Chain-of-Custody Form revision 2017.0328 * indicates a required field				Work Order Number: _____ COC Type: Standard		Page: _____		
		PROJECT/CLIENT INFO		LABORATORY		COC ID: _____				
Facility Code: * MND006148092		Program Code (MDH Lab Only): _____				Lab Name: Pace Analytical - Minneapolis				
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: * PRJ08104				Address: 1700 Elm St SE				
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com						Minneapolis, MN 55414				
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064				
SAMPLE DETAILS										
SAMPLE TYPES Sample-Route Sample QC-Field Blank Sample QC-Field Replicate Sample QC-Trip Blank Sample QC-Field Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample	SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas	ANALYSIS*	# of Cont	Lab Sample No.
	Sample Type* (mm/dd/yyyy)	Start Date* (mm/dd/yyyy)	End Date (mm/dd/yyyy)	Sampling Method* (m or ft)	Depth (m or ft)	Start Time* (hr:min)				
658-A1	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			1
658-A2	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			2
658-A3	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			3
658-A4	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			4
658-A5	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			5
658-A6	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			6
658-A7	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			7
658-A/B1	Sample	7/6/2020	0	0.5 ft	CO	SD	Soil-Surf			8
658-B1	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			9
658-B2	Sample	7/1/2020	0	0.5 ft	CO	SD	Soil-Surf			10
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935				Billing Organization: Landmark Environmental, LLC		Acc#: 20093.01		
Sampler's Signature: *						Address: 2042 W. 98th St., Bloomington, MN 55431				
Sampler's Organization:						Courier Name:		Tracking#:		
RECEIVING COMMENTS:										
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time				
(Sampler)		7/16/20		TN/Bue		7/16/2017				

519 12.5
 27 327 CEG 7/16/20
 27.5

Minnesota Pollution Control Agency MPCA Chain-of-Custody Form revision 2017.03.28 * indicates a required field Work Order Number: Turnaround Time: <u>Next Day</u> COC Type: Standard COC ID: Page: 5 of 11 FOR LAB USE ONLY			
Facility Code:* MND006148092 Project Name:* 3344 Highway 149 Adjacent Property, Eagan Project Manager: michael.ginsbach@state.mn.us, svanduyin@landmarkenv.com, angela.fogarty@gopherresource.com Potential Hazard? N	Program Code (MDH Lab Only): Project Task Code:* PRJ08104 Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414 EPA Lab ID:* MN00064	LABORATORY ANALYSIS REQUESTED	FIELD MATRICES Wt-Ground-Drinking Water Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas SAMPLER COMMENTS (filter volume, special handling, etc.) # of Cont ANALYSIS* PRESERV. Lab Sample No. #
SAMPLE TYPES Sample-Routine Sample QC-PB-Field Blank Sample QC-FE-Field Replicate Sample QC-TB-Trip Blank Sample QC-EQ-Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample SAMPLING METHODS G=Grab sample CT=Composite, time-paced w/AS CF=Composite w/AS D-T=Discrete,time-paced w/AS D-F=Discrete,flow-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown LAB MATRICES BW-Biological Material OT-Other TS-Tissue DEPTH Start Time* End Time Start End Units (in or ft) SAMPLING METHOD* Sampling Method* End Date Complete ONLY if Method is CT, CF, D-T, or D-F FIELD MATRICES Wt-Ground-Drinking Water Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas SAMPLER COMMENTS (filter volume, special handling, etc.) # of Cont ANALYSIS* PRESERV. Lab Sample No. #			
658-A6-NW Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold Lead, 6010D 1 1			
658-A6-NE Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 2			
658-A6-SW Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 3			
658-A6-SE Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 4			
658-A7-NW Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 5			
658-A7-NE Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 6			
658-A7-SW Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 7			
658-A7-SE Sample 7/1/2020 0 0.5 ft G SD Soil-Surf sample hold 1 8			
658-A/B1-NW Sample 7/16/2020 14:30 0 0.5 ft G SD Soil-Surf sample hold 1 9			
658-A/B1-NE Sample 7/16/2020 14:30 0 0.5 ft G SD Soil-Surf sample hold 1 10			
Billing Organization: Landmark Environmental, LLC Phone#: 952-240-8935 Acct#: 20093.01	Address: 2042 W. 98th St., Bloomington, MN 55431	Courier Name: Tracking#:	Date/Time Accepted By/Affiliation Date/Time
Eric Gabrielson Landmark Environmental, LLC Relinquished By/Affiliation (Sampler)	Signature: Michael Ginsbach, Sherry Van Dam, Aneida Fogarty (emails shown above)	Signature: TN/Pace 7/16/20 16:59	Signature: TN/Pace 7/16/20 17:19

5.9 12.5
2.7 ~~3.2~~ 2 CEL 7/16/20 27.5

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form revision 2017.03.28

* indicates a required field

Work Order Number: **COC Type: Standard** **Page: 6 of 11**

Turnaround Time: **COC ID:**

PROJECT/CLIENT INFO

Facility Code: * **MND006148092** Program Code (MDH Lab Only):

Project Name: * **3344 Highway 149 Adjacent Property, Eagan** Project Task Code: * PRJ08104

Project Manager: **michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N** If yes, add information to Sampler Comments field

LABORATORY

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: * **MN00064**

ANALYSIS REQUESTED

SAMPLE TYPES	SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS*	# of Cont	SAMPLER COMMENTS (filter volume, special handling, etc.)	Lab Sample No.
	Sample Type*	Start Date* (mm/dd/yyyy)	End Date* (mm/dd/yyyy)	Depth	Start	End				
Sample-Routine Sample	G-Grab Sample									
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS									
QC-FB-Field Replicate Sample	CT-Composite w/AS									
QC-TB-Trip Blank Sample	D-T-Duplicate, time-paced w/AS									
QC-EB-Equipment Blank	D-T-Duplicate, time-paced w/AS									
Treated-Mid-Treatment system sample	SW-GAS-Gas Sampling									
Treated-Post-Treatment system sample	Unknown=Unknown									

SAMPLE DETAILS

MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	End Date* (mm/dd/yyyy)	Sampling Method*	Field Matrix*	Lab Matrix*	End Time (h:mm)	Complete ONLY if Method is CT, CF, D-T, or D-F	SAMPLER COMMENTS (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	Lab Sample No.
658-A/B1-SW	Sample	7/6/2020	7/13/20	G	Soil-Surf	SD			sample hold	1	Lead, 6010D	605
658-A/B1-SE	Sample	7/6/2020	7/13/20	G	Soil-Surf	SD			sample hold	1		606
658-B1-NW	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B1-NE	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B1-SW	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B1-SE	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B2-NW	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B2-NE	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B2-SW	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		
658-B2-SE	Sample	7/1/2020		G	Soil-Surf	SD			sample hold	1		

Billing Organization: **Landmark Environmental, LLC** **Acc#: 20093.01**

Address: **2042 W. 98th St. Bloomington, MN 55431**

Phone#: **952-240-8935**

Courier Name: **Eric Gofertson**

Tracking#:

Receiving Comments:

Relinquished By/Affiliation **7/16/20** **Accepted By/Affiliation** **TN/Pace** **Date/Time** **7/16/20 16:54**

Signature: **7/16/20** **Signature:** **7/16/20**

Project Managers: Michael Ginsbach, Sherry Van Duin, Angela Fogarty (emails shown above)

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27.5

[illegible]

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S.9 12.5
27.5

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	Client Name: <u>Landmark Env.</u>	Project #: WO# : 10525218 PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV

Tracking Number: _____
 Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other: _____ Temp Blank? ☒ Yes ☐ No
 Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C Correction Factor: <u>True</u> Cooler Temp Corrected w/temp blank: <u>5.9, 2.7, 27.5, 12.5</u> °C	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: CEG 7/16/20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6.
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No Chlorine? ☐ Yes ☐ No pH Paper Lot# ☐ See Exception
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased):
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____ Field Data Required? ☐ Yes ☐ No

Project Manager Review: [Signature] Date: 7/17/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

WO#: 10525218



10525218

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page							
		*Indicates a required field		Turnaround Time: Rush 3-day		COC ID:									
Facility Code: * MND006148092		PROJECT/CLIENT INFO		LABORATORY											
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis											
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		Address: 1700 Elm St SE											
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064											
SAMPLE DETAILS															
MIN Location Identifier*	SAMPLE TYPE	SAMPLING METHODS	LAB MATRICES	Depth	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Field Matrix*	AIS	ANALYSIS*	# of Cont	SAMPLER COMMENTS (filter volume, special handling, etc.)	FIELD MATRICES	ANALYSIS REQUESTED	
														Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)
658-41-NW	Sample	Gr-Grb sample CT-Composite, time-spaced w/AS CF-Composite w/AS D-T-Duplicate, time-spaced w/AS D-F-Duplicate, time-spaced w/AS SW-GAS-Gas Sampling Unknown-Unknown	Gr-Grb sample DW-Drinking Water NW-Natopack Water SD-Soil/Solid AR-Air	0.5 ft	G			SD	Soil-Surf		1	Sample hold	Gr-Grb sample DW-Drinking Water NW-Natopack Water SD-Soil/Solid AR-Air		
658-41-NE	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-41-SW	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-41-SE	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-42-NW	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-42-NE	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-42-SW	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-42-SE	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-43-NW	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
658-43-NE	Sample			0.5 ft	G			SD	Soil-Surf		1	Sample hold			
Sampler's Name: * Eric Gabrielson Sampler's Signature: * Sampler's Organization: * Landmark Environmental, LLC										Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Phone#: 952-240-8935 Acct#: 20093.01		Tracking#:			
Receiving Comments:										Accepted By/Affiliation:		Date/Time:			
Relinquished By/Affiliation:										Accepted By/Affiliation:		Date/Time:			
Relinquished By/Affiliation:										Accepted By/Affiliation:		Date/Time:			

12.7
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 Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017/03/28 * indicates a required field				Work Order Number: _____ COC Type: Standard Page: 2 of 6	
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: ~~2-3 days~~ LABORATORY	
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only): _____				COC ID: _____	
Project Manager: michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com		Lab Name: Pace Analytical - Minneapolis Address: 1700 Elm St SE Minneapolis, MN 55414				FOR LAB USE ONLY	
Potential Hazard? N		EPA Lab ID: * MN00064				Lab Work Order Sticker	

SAMPLE DETAILS										ANALYSIS REQUESTED									
MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth		Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix*	Field Matrix*	AIS	SAMPLER COMMENTS (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES		Lab Sample No.	#
				Start	End											Wt-Surf-Surface Water	Wt-Surf-Drinking Water		
				Units (m or ft)	Units (m or ft)											Wt-Surf-Surface Water	Wt-Surf-Drinking Water		
658-A3-SW	Sample	7/20/2020	8:51	0	0.5 ft	G			SD	Soil-Surf		sample hold						019	1
658-A3-SE	Sample	7/20/2020	8:50	0	0.5 ft	G			SD	Soil-Surf		sample hold						020	2
658-A4-NW	Sample	7/20/2020	8:57	0	0.5 ft	G			SD	Soil-Surf		sample hold						021	3
658-A4-NE	Sample	7/20/2020	8:59	0	0.5 ft	G			SD	Soil-Surf		sample hold						022	4
658-A4-SW	Sample	7/20/2020	9:03	0	0.5 ft	G			SD	Soil-Surf		sample hold						023	5
658-A4-SE	Sample	7/20/2020	9:00	0	0.5 ft	G			SD	Soil-Surf		sample hold						024	6
658-A5-NW	Sample	7/20/2020	9:09	0	0.5 ft	G			SD	Soil-Surf		sample hold						025	7
658-A5-NE	Sample	7/20/2020	9:10	0	0.5 ft	G			SD	Soil-Surf		sample hold						026	8
658-A5-SW	Sample	7/20/2020	9:14	0	0.5 ft	G			SD	Soil-Surf		sample hold						027	9
658-A5-SE	Sample	7/20/2020	9:12	0	0.5 ft	G			SD	Soil-Surf		sample hold						028	10

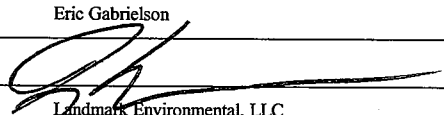
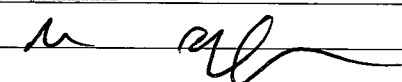
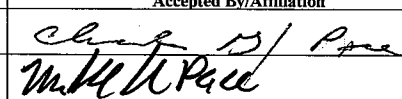
Billing Organization: Landmark Environmental, LLC Phone#: 952-240-8935 Acct#: 20093.01	
Address: 2042 W. 98th St., Bloomington, MN 55431	
Courier Name: _____ Tracking#: _____	

Receiving Comments: _____	
Relinquished By/Affiliation _____ Date/Time _____	
Accepted By/Affiliation _____ Date/Time _____	

(Sampler) *Michael Ginsbach* 7/20/20 16:32 *Chloe D. Pace* 7/20/20 16:37
 12.7
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MPCA Chain-of-Custody Form		Work Order Number: <u>3</u>		COC Type: Standard		Page: <u>3</u> of <u>6</u>																																																																							
Minnesota Pollution Control Agency		Turnaround Time: Rush 3 day		COC ID:		FOR LAB USE ONLY																																																																							
PROJECT/CLIENT INFO		LABORATORY																																																																											
Facility Code: * MND006148092		Lab Name: Pace Analytical - Minneapolis																																																																											
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Address: 1700 Elm St SE																																																																											
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Minneapolis, MN 55414																																																																											
Potential Hazard? N		EPA Lab ID: * MN00064				Lab Work Order Sticker																																																																							
SAMPLE DETAILS																																																																													
MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (in or ft.)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)																																																																						
								Field Matrix*	Lab Matrix*	Field Matrix*	Lab Matrix*																																																																		
658-B4-NW	Sample	7/20/2020	8:32	0.5 ft	G																																																																								
658-B4-NE	Sample	7/20/2020	8:42	0.5 ft	G																																																																								
658-B5-NW	Sample	7/20/2020	8:51	0.5 ft	G																																																																								
658-B5-SE	Sample	7/20/2020	9:04	0.5 ft	G																																																																								
658-B4-NW	Sample	7/20/2020	9:15	0.5 ft	G																																																																								
658-B4-NE	Sample	7/20/2020	9:27	0.5 ft	G																																																																								
658-B4-SW	Sample	7/20/2020		0.5 ft	G																																																																								
658-B4-SE	Sample	7/20/2020		0.5 ft	G																																																																								
658-B5-NW	Sample	7/20/2020		0.5 ft	G																																																																								
658-B5-NE	Sample	7/20/2020		0.5 ft	G																																																																								
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658-B4-NW		Sample		7/20/2020		8:32																																																																							
658-B4-NE		Sample		7/20/2020		8:42																																																																							
658-B5-NW		Sample		7/20/2020		8:51																																																																							
658-B5-SE		Sample		7/20/2020		9:04																																																																							
658-B4-NW		Sample		7/20/2020		9:15																																																																							
658-B4-NE		Sample		7/20/2020		9:27																																																																							
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Sampler's Name: * Eric Gabrielson		Phone #: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct #: 20093.01																																																																							
Sampler's Signature: *				Address: 2042 W. 98th St., Bloomington, MN 55431																																																																									
Sampler's Organization: Landmark Environmental, LLC				Courier Name:		Tracking #:																																																																							
Receiving Comments:																																																																													
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time																																																																							
NWA		7/20/20		Charles B. Jorgensen		7/26/20 16:37																																																																							
(Sampler)		16:32		Mike K. Kallen		7/26/20 16:37																																																																							

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 Minnesota Pollution Control Agency	MPCA Chain-of-Custody Form revision 2017.0328 * indicates a required field										Work Order Number:		COC Type: Standard		Page: 4 of 6				
	PROJECT/CLIENT INFO										Turnaround Time: <u>Bush 3 day</u>		COC ID:		FOR LAB USE ONLY Lab Work Order Sticker				
Facility Code:* MND006148092					Program Code (MDH Lab Only):					Lab Name: Pace Analytical - Minneapolis									
Project Name:* 3344 Highway 149 Adjacent Property, Eagan					Project Task Code:* PRJ08104					Address: 1700 Elm St SE									
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com										Minneapolis, MN 55414									
Potential Hazard? N					If yes, add information to Sampler Comments field					EPA Lab ID:* MN00064									
SAMPLE DETAILS														ANALYSIS REQUESTED					
SAMPLE TYPES Sample-Routine Sample QC-FB=Field Blank Sample QC-FR=Field Replicate Sample QC-TB=Trip Blank Sample QC-EB=Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample		SAMPLING METHODS G=Grab sample CT=Composite, time-paced w/AS CF=Composite w/AS D-T=Discrete, time-paced w/AS D-F=Discrete, flow-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown		LAB MATRICES DW=Drinking Water NW=Nonpotable Water SD=Soil/Solid AR=Air		BL=Biological Material OT=Other TS=Tissue		FIELD MATRICES Wtr-Ground=Groundwater Wtr-Surf=Surface Water Wtr-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas		PRESERV. FF		ANALYSIS* Lead, 6010D		Lab Sample No.		#			
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* 24 hr (hh:mm)	Start	End	Units (m or ft.)	Sampling Method*	End Date (mm/dd/yyyy)	End Time 24 hr (hh:mm)	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	Lead, 6010D	Lab Sample No.	#
~~658-B7-SW~~		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf		sample hold			1		1
~~658-B5-SE~~		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf		sample hold			1	35	2
658-B6-NW		Sample	7/20/2020	9:22	0	0.5	ft	G			SD	Soil-Surf		sample hold			1	235	3
658-B6-NE		Sample	7/29/2020	9:24	0	0.5	ft	G			SD	Soil-Surf		sample hold			1	236	4
658-B6-SW		Sample	7/29/2020	9:27	0	0.5	ft	G			SD	Soil-Surf		sample hold			1	237	5
658-B6-SE		Sample	7/29/2020	9:25	0	0.5	ft	G			SD	Soil-Surf		sample hold			1	238	6
~~658-B7-NW~~		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf		sample hold			1		7
~~658-B7-NE~~		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf		sample hold			1		8
~~658-B7-SW~~		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf		sample hold			1		9
~~658-B7-SE~~		Sample	7/1/2020		0	0.5	ft	G			SD	Soil-Surf		sample hold			1		10
Sampler's Name:* Eric Gabrielson					Phone#: 952-240-8935					Billing Organization: Landmark Environmental, LLC					Acct#: 20093.01				
Sampler's Signature:* 										Address: 2042 W. 98th St., Bloomington, MN 55431									
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Receiving Comments:																			
Relinquished By/Affiliation										Date/Time		Accepted By/Affiliation				Date/Time			
(Sampler) 										7/20/20 16:32						7/20/20 16:37 7/20/20 1637			
Project Managers: Michael Ginsbach, Sherry Van Dunn, Angela Fogarty (emails shown above)																			

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[illegible]

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: MPCA	Project #: WO#: 10525218
Courier:	☐ Fed Ex ☒ Pace	☐ UPS ☐ USPS ☐ Client ☐ Speedee ☐ Commercial ☐ See Exceptions
Tracking Number:		

Custody Seal on Cooler/Box Present?	☐ Yes ☒ No	Seals Intact?	☐ Yes ☒ No	Biological Tissue Frozen?	☐ Yes ☐ No ☒ N/A
Packing Material:	☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other:	Temp Blank?	☒ Yes ☐ No		
Thermometer:	☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice:	☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted		

Did Samples Originate in West Virginia?	☐ Yes ☒ No	Were All Container Temps Taken?	☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: 12.7, 9.6, 12.2, 1.3 °C	Average Corrected Temp (no temp blank only):	☐ See Exceptions ☐ 1 Container
Correction Factor:	True	Cooler Temp Corrected w/temp blank: 12.7, 9.6, 12.2, 1.3 °C	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: **MKZ 7-26-20**
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out?	1. ☒ Yes ☐ No
Chain of Custody Relinquished?	2. ☒ Yes ☐ No
Sampler Name and/or Signature on COC?	3. ☒ Yes ☐ No ☐ N/A
Samples Arrived within Hold Time?	4. ☒ Yes ☐ No
Short Hold Time Analysis (<72 hr)?	5. ☐ Yes ☒ No ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	6. ☒ Yes ☒ No MKZ
Sufficient Volume?	7. ☒ Yes ☐ No 7-20-20
Correct Containers Used?	8. ☒ Yes ☐ No
-Pace Containers Used?	☒ Yes ☐ No
Containers Intact?	9. ☒ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests?	10. ☐ Yes ☐ No ☒ N/A
Is sufficient information available to reconcile the samples to the COC?	11. ☒ Yes ☐ No
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked?	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	Positive for Res. ☐ Yes ☒ No Chlorine? ☐ Yes ☒ No Res. Chlorine ☐ 0-6 Roll ☐ 0-6 Strip ☐ 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	13. ☐ Yes ☐ No ☒ N/A
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A
Trip Blank Present?	14. ☐ Yes ☐ No ☒ N/A
Trip Blank Custody Seals Present?	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: **Anna Asp** Date: **7/21/2020**
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

July 24, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525717

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525717001	3382-A1	Solid	07/21/20 09:23	07/21/20 15:55
10525717002	3382-A2	Solid	07/21/20 09:31	07/21/20 15:55
10525717003	3382-A3	Solid	07/21/20 09:51	07/21/20 15:55
10525717004	3382-A4	Solid	07/21/20 10:07	07/21/20 15:55
10525717005	3382-A5	Solid	07/21/20 10:22	07/21/20 15:55
10525717006	3382-A6	Solid	07/21/20 10:36	07/21/20 15:55
10525717007	3382-B1	Solid	07/21/20 10:52	07/21/20 15:55
10525717008	3382-B2	Solid	07/21/20 11:08	07/21/20 15:55
10525717009	3382-B3	Solid	07/21/20 11:21	07/21/20 15:55
10525717010	3382-B4	Solid	07/21/20 11:34	07/21/20 15:55
10525717011	3382-B5	Solid	07/21/20 11:47	07/21/20 15:55
10525717012	3382-B6	Solid	07/21/20 12:00	07/21/20 15:55
10525717013	M-13	Solid	07/21/20 09:38	07/21/20 15:55
10525717014	3382-A3 SE	Solid	07/21/20 09:49	07/21/20 15:55
10525717015	3382-A3 SW	Solid	07/21/20 09:50	07/21/20 15:55
10525717016	3382-A1-NW	Solid	07/21/20 09:19	07/21/20 15:55
10525717017	3382-A1-NE	Solid	07/21/20 09:20	07/21/20 15:55
10525717018	3382-A1-SW	Solid	07/21/20 09:21	07/21/20 15:55
10525717019	3382-A1-SE	Solid	07/21/20 09:21	07/21/20 15:55
10525717020	3382-A2-NW	Solid	07/21/20 09:32	07/21/20 15:55
10525717021	3382-A2-NE	Solid	07/21/20 09:34	07/21/20 15:55
10525717022	3382-A2-SW	Solid	07/21/20 09:36	07/21/20 15:55
10525717023	3382-A2-SE	Solid	07/21/20 09:35	07/21/20 15:55
10525717024	3382-A3-NW	Solid	07/21/20 09:46	07/21/20 15:55
10525717025	3382-A3-NE	Solid	07/21/20 09:47	07/21/20 15:55
10525717026	3382-A4-NW	Solid	07/21/20 10:00	07/21/20 15:55
10525717027	3382-A4-NE	Solid	07/21/20 10:02	07/21/20 15:55
10525717028	3382-A4-SW	Solid	07/21/20 10:04	07/21/20 15:55
10525717029	3382-A4-SE	Solid	07/21/20 10:03	07/21/20 15:55
10525717030	3382-A5-NW	Solid	07/21/20 10:15	07/21/20 15:55
10525717031	3382-A5-NE	Solid	07/21/20 10:17	07/21/20 15:55
10525717032	3382-A5-SW	Solid	07/21/20 10:21	07/21/20 15:55
10525717033	3382-A5-SE	Solid	07/21/20 10:19	07/21/20 15:55
10525717034	3382-A6-NW	Solid	07/21/20 10:30	07/21/20 15:55
10525717035	3382-A6-NE	Solid	07/21/20 10:32	07/21/20 15:55
10525717036	3382-A6-SW	Solid	07/21/20 10:34	07/21/20 15:55
10525717037	3382-A6-SE	Solid	07/21/20 10:33	07/21/20 15:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525717038	3382-B1-NW	Solid	07/21/20 10:45	07/21/20 15:55
10525717039	3382-B1-NE	Solid	07/21/20 10:47	07/21/20 15:55
10525717040	3382-B1-SW	Solid	07/21/20 10:51	07/21/20 15:55
10525717041	3382-B1-SE	Solid	07/21/20 10:50	07/21/20 15:55
10525717042	3382-B2-NW	Solid	07/21/20 11:00	07/21/20 15:55
10525717043	3382-B2-NE	Solid	07/21/20 11:03	07/21/20 15:55
10525717044	3382-B2-SW	Solid	07/21/20 11:06	07/21/20 15:55
10525717045	3382-B2-SE	Solid	07/21/20 11:05	07/21/20 15:55
10525717046	3382-B3-NW	Solid	07/21/20 11:15	07/21/20 15:55
10525717047	3382-B3-NE	Solid	07/21/20 11:16	07/21/20 15:55
10525717048	3382-B3-SW	Solid	07/21/20 11:20	07/21/20 15:55
10525717049	3382-B3-SE	Solid	07/21/20 11:18	07/21/20 15:55
10525717050	3382-B4-NW	Solid	07/21/20 11:27	07/21/20 15:55
10525717051	3382-B4-NE	Solid	07/21/20 11:30	07/21/20 15:55
10525717052	3382-B4-SW	Solid	07/21/20 11:33	07/21/20 15:55
10525717053	3382-B4-SE	Solid	07/21/20 11:31	07/21/20 15:55
10525717054	3382-B5-NW	Solid	07/21/20 11:40	07/21/20 15:55
10525717055	3382-B5-NE	Solid	07/21/20 11:42	07/21/20 15:55
10525717056	3382-B5-SW	Solid	07/21/20 11:45	07/21/20 15:55
10525717057	3382-B5-SE	Solid	07/21/20 11:44	07/21/20 15:55
10525717058	3382-B6-SW	Solid	07/21/20 11:59	07/21/20 15:55
10525717059	3382-B6-SE	Solid	07/21/20 11:57	07/21/20 15:55
10525717060	3382-B6-NW	Solid	07/21/20 11:53	07/21/20 15:55
10525717061	3382-B6-NE	Solid	07/21/20 11:55	07/21/20 15:55
10525717062	3382-A1-0.5-1	Solid	07/21/20 09:25	07/21/20 15:55
10525717063	3382-A1-1-1.5	Solid	07/21/20 09:27	07/21/20 15:55
10525717064	3382-A2-0.5-1	Solid	07/21/20 09:40	07/21/20 15:55
10525717065	3382-A2-1-1.5	Solid	07/21/20 09:42	07/21/20 15:55
10525717066	3382-A3-0.5-1	Solid	07/21/20 09:52	07/21/20 15:55
10525717067	3382-A3-1-1.5	Solid	07/21/20 09:53	07/21/20 15:55
10525717068	3382-A4-0.5-1	Solid	07/21/20 10:10	07/21/20 15:55
10525717069	3382-A4-1-1.5	Solid	07/21/20 10:12	07/21/20 15:55
10525717070	3382-A5-0.5-1	Solid	07/21/20 10:24	07/21/20 15:55
10525717071	3382-A5-1-1.5	Solid	07/21/20 10:26	07/21/20 15:55
10525717072	3382-A6-0.5-1	Solid	07/21/20 10:38	07/21/20 15:55
10525717073	3382-A6-1-1.5	Solid	07/21/20 10:39	07/21/20 15:55
10525717074	3382-B1-0.5-1	Solid	07/21/20 10:55	07/21/20 15:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525717075	3382-B1-1-1.5	Solid	07/21/20 10:57	07/21/20 15:55
10525717076	3382-B2-0.5-1	Solid	07/21/20 11:10	07/21/20 15:55
10525717077	3382-B2-1-1.5	Solid	07/21/20 11:12	07/21/20 15:55
10525717078	3382-B3-0.5-1	Solid	07/21/20 11:23	07/21/20 15:55
10525717079	3382-B3-1-1.5	Solid	07/21/20 11:25	07/21/20 15:55
10525717080	3382-B4-0.5-1	Solid	07/21/20 11:36	07/21/20 15:55
10525717081	3382-B4-1-1.5	Solid	07/21/20 11:38	07/21/20 15:55
10525717082	3382-B5-0.5-1	Solid	07/21/20 11:50	07/21/20 15:55
10525717083	3382-B5-1-1.5	Solid	07/21/20 11:51	07/21/20 15:55
10525717084	3382-B6-0.5-1	Solid	07/21/20 12:02	07/21/20 15:55
10525717085	3382-B6-1-1.5	Solid	07/21/20 12:05	07/21/20 15:55

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525717001	3382-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717002	3382-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717003	3382-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717004	3382-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717005	3382-A5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717006	3382-A6	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717007	3382-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717008	3382-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717009	3382-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717010	3382-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717011	3382-B5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717012	3382-B6	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525717013	M-13	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-A1 **Lab ID: 10525717001** Collected: 07/21/20 09:23 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	21.3	mg/kg	0.60	0.14	1	07/23/20 09:42	07/23/20 16:59	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	23.3	%	0.10	0.10	1		07/22/20 14:19		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-A2 **Lab ID: 10525717002** Collected: 07/21/20 09:31 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	25.6	mg/kg	0.59	0.13	1	07/23/20 09:42	07/23/20 17:08	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	21.8	%	0.10	0.10	1		07/22/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-A3 **Lab ID: 10525717003** Collected: 07/21/20 09:51 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	11.5	mg/kg	0.63	0.14	1	07/23/20 09:42	07/23/20 17:09	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.3	%	0.10	0.10	1		07/22/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-A4 **Lab ID: 10525717004** Collected: 07/21/20 10:07 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	46.3	mg/kg	0.62	0.14	1	07/23/20 09:42	07/23/20 17:11	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	23.5	%	0.10	0.10	1		07/22/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-A5 **Lab ID: 10525717005** Collected: 07/21/20 10:22 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	28.9	mg/kg	0.56	0.13	1	07/23/20 09:42	07/23/20 17:18	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.5	%	0.10	0.10	1		07/22/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-A6 **Lab ID: 10525717006** Collected: 07/21/20 10:36 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	14.7	mg/kg	0.62	0.14	1	07/23/20 09:42	07/23/20 17:20	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	19.9	%	0.10	0.10	1		07/22/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-B1 **Lab ID: 10525717007** Collected: 07/21/20 10:52 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.7	mg/kg	0.62	0.14	1	07/23/20 09:42	07/23/20 17:22	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	19.9	%	0.10	0.10	1		07/22/20 14:21		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-B2 **Lab ID: 10525717008** Collected: 07/21/20 11:08 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.5	mg/kg	0.62	0.14	1	07/23/20 09:42	07/23/20 17:23	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	21.0	%	0.10	0.10	1		07/22/20 14:21		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-B3 **Lab ID: 10525717009** Collected: 07/21/20 11:21 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.2	mg/kg	0.58	0.13	1	07/23/20 09:42	07/23/20 17:25	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	19.6	%	0.10	0.10	1		07/22/20 14:21		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-B4 **Lab ID: 10525717010** Collected: 07/21/20 11:34 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	15.4	mg/kg	0.64	0.14	1	07/23/20 09:42	07/23/20 17:27	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	21.3	%	0.10	0.10	1		07/22/20 14:21		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-B5 **Lab ID: 10525717011** Collected: 07/21/20 11:47 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.5	mg/kg	0.58	0.13	1	07/23/20 09:42	07/23/20 17:28	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.0	%	0.10	0.10	1		07/22/20 14:21		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: 3382-B6 **Lab ID: 10525717012** Collected: 07/21/20 12:00 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.8	mg/kg	0.57	0.13	1	07/23/20 09:42	07/23/20 17:30	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	18.2	%	0.10	0.10	1		07/22/20 14:21		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Sample: M-13 **Lab ID: 10525717013** Collected: 07/21/20 09:38 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	32.2	mg/kg	0.62	0.14	1	07/23/20 09:42	07/23/20 17:32	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	21.6	%	0.10	0.10	1		07/22/20 14:22		N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

QC Batch:	688594	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525717001, 10525717002, 10525717003, 10525717004, 10525717005, 10525717006, 10525717007, 10525717008, 10525717009, 10525717010, 10525717011, 10525717012, 10525717013		

METHOD BLANK:	3682999	Matrix:	Solid
Associated Lab Samples:	10525717001, 10525717002, 10525717003, 10525717004, 10525717005, 10525717006, 10525717007, 10525717008, 10525717009, 10525717010, 10525717011, 10525717012, 10525717013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.49	0.49	0.11	07/23/20 16:56	

LABORATORY CONTROL SAMPLE: 3683000						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	48.5	49.2	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3683001					3683002							
		10525717001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Lead	mg/kg	21.3	62.7	63.9	74.2	73.5	84	82	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

QC Batch:	688427	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525717001, 10525717002, 10525717003, 10525717004, 10525717005, 10525717006, 10525717007, 10525717008, 10525717009, 10525717010, 10525717011, 10525717012, 10525717013		

SAMPLE DUPLICATE: 3682139

Parameter	Units	10525717001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.3	22.0	6	30	N2

SAMPLE DUPLICATE: 3682140

Parameter	Units	10524722001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.4	5.2	16	30	N2

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525717

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525717

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525717

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525717001	3382-A1	EPA 3050B	688594	EPA 6010D	688869
10525717002	3382-A2	EPA 3050B	688594	EPA 6010D	688869
10525717003	3382-A3	EPA 3050B	688594	EPA 6010D	688869
10525717004	3382-A4	EPA 3050B	688594	EPA 6010D	688869
10525717005	3382-A5	EPA 3050B	688594	EPA 6010D	688869
10525717006	3382-A6	EPA 3050B	688594	EPA 6010D	688869
10525717007	3382-B1	EPA 3050B	688594	EPA 6010D	688869
10525717008	3382-B2	EPA 3050B	688594	EPA 6010D	688869
10525717009	3382-B3	EPA 3050B	688594	EPA 6010D	688869
10525717010	3382-B4	EPA 3050B	688594	EPA 6010D	688869
10525717011	3382-B5	EPA 3050B	688594	EPA 6010D	688869
10525717012	3382-B6	EPA 3050B	688594	EPA 6010D	688869
10525717013	M-13	EPA 3050B	688594	EPA 6010D	688869
10525717001	3382-A1	ASTM D2974	688427		
10525717002	3382-A2	ASTM D2974	688427		
10525717003	3382-A3	ASTM D2974	688427		
10525717004	3382-A4	ASTM D2974	688427		
10525717005	3382-A5	ASTM D2974	688427		
10525717006	3382-A6	ASTM D2974	688427		
10525717007	3382-B1	ASTM D2974	688427		
10525717008	3382-B2	ASTM D2974	688427		
10525717009	3382-B3	ASTM D2974	688427		
10525717010	3382-B4	ASTM D2974	688427		
10525717011	3382-B5	ASTM D2974	688427		
10525717012	3382-B6	ASTM D2974	688427		
10525717013	M-13	ASTM D2974	688427		

REPORT OF LABORATORY ANALYSIS

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WO#: 10525717



10525717

	MPCA Chain-of-Custody Form revision 2017.03.28 * Indicates a required field		Work Order Number: Turnaround Time: Fast 3 day	COC Type: Standard COC ID:
	PROJECT/CLIENT INFO		LABORATORY	
Facility Code: MND006148092	Program Code: (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis	
Project Name: 3344 Highway 149 Adjacent Property, Eagan	Project Task Code: PRJ08104		Address: 1700 Elm St SE	
Project Manager: michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com	EPA Lab ID: MN00064		Minneapolis, MN 55414	
Potential Hazard? N	If yes, add information to Sampler Comments field			

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Depth (m or ft)	Sampling Method*	Lab Matrix* (mm/dd/yyyy)	Field Matrix* (mm/dd/yyyy)	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV*	ANALYSIS REQUESTED									
3382-A1		Sample	7/2/2020	9:23			0.5 ft	CO	SD	Soil-Surf															
3382-A2		Sample	7/2/2020	9:31			0.5 ft	CO	SD	Soil-Surf															
3382-A3		Sample	7/2/2020	9:51			0.5 ft	CO	SD	Soil-Surf															
3382-A4		Sample	7/2/2020	10:07			0.5 ft	CO	SD	Soil-Surf															
3382-A5		Sample	7/2/2020	10:22			0.5 ft	CO	SD	Soil-Surf															
3382-A6		Sample	7/2/2020	10:34			0.5 ft	CO	SD	Soil-Surf															
3382-B1		Sample	7/2/2020	10:52			0.5 ft	CO	SD	Soil-Surf															
3382-B2		Sample	7/2/2020	11:08			0.5 ft	CO	SD	Soil-Surf															
3382-B3		Sample	7/2/2020	11:21			0.5 ft	CO	SD	Soil-Surf															
3382-B4		Sample	7/2/2020	11:24			0.5 ft	CO	SD	Soil-Surf															

Sampler's Name: Eric Gabrielson	Phone#: 952-240-8935	Billing Organization: Landmark Environmental, LLC	Acct#: 20093.01
Sampler's Signature:	Address: 2042 W. 98th St., Bloomington, MN 55431		
Sampler's Organization:	Courier Name:	Tracking#:	

Receiving Comments:		Date/Time	Accepted By/Affiliation	Date/Time
		7/2/2020 13:10	PAGE	7/21/20 13:10
		7/21/20 13:10	Cheryl B / Pace	7/21/20 14:45
		7/21/20 15:55	Michelle Pace	7/21/20 15:55

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form revision 2017.03.28				Work Order Number: <u> </u>		COC Type: Standard		Page: 2 of 10			
		* Indicates a required field				Turnaround Time: Rush 3 day		COC ID: <u> </u>		FOR LAB USE ONLY			
PROJECT/CLIENT INFO		LABORATORY											
Facility Code: * MND006148092		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis							
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: * PR08104				Address: 1700 Elm St SE							
Project Manager: michael.ginsbach@state.mn.us, svanduyun@landmarkenv.com, angela.fogarty@gopherresource.com						Minneapolis, MN 55414							
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064				Lab Work Order Sticker			
SAMPLE DETAILS													
SAMPLE TYPES Sample-Routine Sample QC-PB-Field Blank Sample QC-PB-Field Replicate Sample QC-TB-Trip Blank Sample QC-TB-Trip Replicate Sample QC-EB-Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample	SAMPLING METHODS G-Grab sample CT-Composite, time-paced w/AS CF-Composite w/AS D-T-Discrete, time-paced w/AS D-F-Discrete, flow-paced w/AS SW-GAS-Gas Sampling Unknown-Unknown		LAB MATRICES DW-Drinking Water NW-Nonpotable Water SD-Soil/Solid AR-Air		BI-Biological Material OT-Other TS-Tissue		FIELD MATRICES Wtr-Ground-Groundwater Wtr-Surf-Surface Water Wtr-Drnk-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas		ANALYSIS REQUESTED		Lab Sample No.		
	Sample Type* (mm/dd/yyyy)	Start Date* (mm/dd/yyyy)	End Date (mm/dd/yyyy)	Sampling Method*	Depth (m or ft)	End Time (hh:mm)	Start Time* (hh:mm)	End Time (hh:mm)	Lab Matrix* (mm/dd/yyyy)	Field Matrix* (mm/dd/yyyy)		ANALYSIS* (mm/dd/yyyy)	# of Cont
3382-B5	Sample	7/20/2020 11:47		CO	0.5 ft								1
3382-B6	Sample	7/20/2020 12:00		CO	0.5 ft								2
M-13	Sample	7/21/2020 9:30		CO	0.5 ft								3
3382-A3-SE	Sample	7/21/2020 9:49		"	"								4
3382-A3-SW	Sample	7/21/2020 9:50		"	"								5
													6
													7
													8
													9
													10
Sampler's Name: * Eric Gabrielson		Phone: * 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01							
Sampler's Signature: *				Address: 2042 W. 98th St., Bloomington, MN 55431									
Sampler's Organization: Landmark Environmental, LLC		Courier Name:		Tracking#:									
Receiving Comments:													
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time							
(Sampler)		7/21/20 13:05		PAC2		7/21/20 13:10							
		7/21/20 13:10		Charles D / Pace		7/21/20 14:45							
		7/21/20 15:55		MPCA (PAC)		7/21/20 15:55							

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Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number: ~~20093.01~~		COC Type: Standard		Page: 3 of 10			
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: ~~20093.01~~		COC ID:		FOR LAB USE ONLY			
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		COC ID:		Lab Work Order Sticker			
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Address: 1700 Elm St SE		COC ID:		Lab Work Order Sticker			
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064		COC ID:		Lab Work Order Sticker			
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		Lab Sample No.			
Sample-Routine Sample	G-Grab sample	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth	End Date (mm/dd/yyyy)	End Time (hh:mm)	Wtr-Ground=Groundwater	Wtr-Surf=Surface Water	Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Lab Sample No.	
QC-FB-Field Blank Sample	CF-Composite, time-paced w/AS						Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas		
QC-FR-Field Replicate Sample	CF-Composite w/AS						Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas		
QC-TB-Trip Blank Sample	CF-Composite w/AS						Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas		
QC-EB-Equipment Blank	CF-Composite w/AS						Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas		
Treated-Mid-Treatment system sample	SW-GAS=Gas Sampling						Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas		
Treated-Pot-Treatment system sample	Unknown-Unknown						Wtr-Surf=Drinking Water	QC-BLANK=Artificial Blank	Leachate=Leachate Sample	Air-Indoor=Indoor Air	Gas-Soil=Soil Gas		
Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	Lab Sample No.
3382-A1-NW	Sample	7/2/2020	9:19	0.5 ft			G	SD	Soil-Surf	Sample hold		ANALYSIS* Lead, 6010D	016
3382-A1-NE	Sample	7/2/2020	9:20	0.5 ft			G	SD	Soil-Surf	Sample hold			017
3382-A1-SW	Sample	7/2/2020	9:21	0.5 ft			G	SD	Soil-Surf	Sample hold			018
3382-A1-SE	Sample	7/2/2020	9:21	0.5 ft			G	SD	Soil-Surf	Sample hold			019
3382-A2-NW	Sample	7/2/2020	9:32	0.5 ft			G	SD	Soil-Surf	Sample hold			020
3382-A2-NE	Sample	7/2/2020	9:34	0.5 ft			G	SD	Soil-Surf	Sample hold			021
3382-A2-SW	Sample	7/2/2020	9:36	0.5 ft			G	SD	Soil-Surf	Sample hold			022
3382-A2-SE	Sample	7/2/2020	9:35	0.5 ft			G	SD	Soil-Surf	Sample hold			023
3382-A3-NW	Sample	7/2/2020	9:44	0.5 ft			G	SD	Soil-Surf	Sample hold			024
3382-A3-NE	Sample	7/2/2020	9:47	0.5 ft			G	SD	Soil-Surf	Sample hold			025
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St, Bloomington, MN 55431		Acc#: 20093.01					
Sampler's Signature: *				Courier Name: Landmark Environmental, LLC		Tracking#: *							
Sampler's Organization: *				Receiving Comments: *									
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time							
(Sampler) <i>MPA</i>		7/2/2020 13:10		<i>PACE</i>		7/21/2020 13:10							
		7/21/2020 13:10		<i>Chloe D. Pace</i>		7/21/2020 13:10							
		7/21/2020 15:55		<i>Chloe D. Pace</i>		7/21/2020 15:55							

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 5 of 10	
Facility Code:*		Project Name:*				Turnaround Time:*		COC ID:		FOR LAB USE ONLY	
Project Manager:		Project Task Code:*				Lab Name:		Address:		Lab Work Order Sticker	
Potential Hazard?		If yes, add information to Sampler Comments field				EPA Lab ID:*		MND006148092		MND006148092	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		ANALYSIS	
Sample-Routine Sample	G-Grab sample	CT-Composite, time-paced w/AS	DW=Drinking Water	BI=Biological Material	Wtr-Ground=Groundwater	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	DW=Drinking Water	OT=Other	TS=Tissue	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.	
QC-FR-Field Replicate Sample	CT-Composite, time-paced w/AS	DW=Drinking Water	OT=Other	TS=Tissue	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.	
QC-TB-Trip Blank Sample	CT-Composite, time-paced w/AS	DW=Drinking Water	OT=Other	TS=Tissue	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.	
QC-EB-Equipment Blank	CT-Composite, time-paced w/AS	DW=Drinking Water	OT=Other	TS=Tissue	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.	
Treated-Mid-Treatment system sample	SW-GAS=Gas Sampling	Unknown=Unknown	SW-GAS=Gas Sampling	Unknown=Unknown	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.	
Treated-Post-Treatment system sample	SW-GAS=Gas Sampling	Unknown=Unknown	SW-GAS=Gas Sampling	Unknown=Unknown	Wtr-Surf=Surface Water	QC-BLANK=Artificial Blank Water	Leachate=Leachate Sample	FF	Lead, 6010D	Lab Sample No.	
MIN Location Identifier*		Sample Type*		Start Date*		End Date		Sampling Method*		Depth	
3382-A5-SW	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	046
3382-A5-SE	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	057
3382-A6-NW	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	058
3382-A6-NE	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	059
3382-A6-SW	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	060
3382-A6-SE	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	061
3382-B1-NW	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	062
3382-B1-NE	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	063
3382-B1-SW	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	064
3382-B1-SE	Sample	7/1/2020	7/1/2020	0	0.5	ft	G	Soil-Surf	sample hold	1	065
Sampler's Name:*		Eric Campbellson		Phone#: 952-240-8935		Billing Organization:		Landmark Environmental, LLC		Acct#: 20093.01	
Sampler's Signature:*		[Signature]		Address:		2042 W. 98th St., Bloomington, MN 55431		Tracking#:			
Sampler's Organization:		Landmark Environmental, LLC		Courier Name:							
Receiving Comments:											
Relinquished By/Affiliation		[Signature]		Date/Time		Accepted By/Affiliation		[Signature]		Date/Time	
(Sampler)		7/1/20		7:11:00		PACZ		7/21/20		13:10	
Project Managers: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (emails shown above)		7/21/20 13:10		1:05		Chen D/ Lane		7/24/20		14:45	
		7/24/20 15:55				MCKell		7/21/20		15:55	

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Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form (revision 2017.0328)				Work Order Number: 20093.01		COC Type: Standard		Page: 6 of 10		
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: Real Time		COC ID: LABORATORY		FOR LAB USE ONLY		
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis		COC ID:		Lab Work Order Sticker		
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Address: 1700 Elm St SE		Minneapolis, MN 55414				
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN000064						
SAMPLE DETAILS												
SAMPLE TYPES Sample-Routine Sample QC-Field Blank Sample QC-Field Duplicate Sample QC-Trip Blank Sample QC-Field Duplicate Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample	SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED				Lab Sample No.	
	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Depth (m or ft)	Units (m or ft)	Field Matrix*	Lab Matrix*		Field Matrix*
3382-B2-NW	Sample	7/1/2020	11:00			G	0.5 ft		SD	Soil-Surf	sample hold	042 042
3382-B2-NE	Sample	7/1/2020	11:03			G	0.5 ft		SD	Soil-Surf	sample hold	043 043
3382-B2-SW	Sample	7/1/2020	11:06			G	0.5 ft		SD	Soil-Surf	sample hold	044 044
3382-B2-SE	Sample	7/1/2020	11:08			G	0.5 ft		SD	Soil-Surf	sample hold	045 045
3382-B3-NW	Sample	7/1/2020	11:15			G	0.5 ft		SD	Soil-Surf	sample hold	046 046
3382-B3-NE	Sample	7/1/2020	11:18			G	0.5 ft		SD	Soil-Surf	sample hold	047 047
3382-B3-SW	Sample	7/1/2020	11:20			G	0.5 ft		SD	Soil-Surf	sample hold	048 048
3382-B3-SE	Sample	7/1/2020	11:18			G	0.5 ft		SD	Soil-Surf	sample hold	049 049
3382-B4-NW	Sample	7/1/2020	11:21			G	0.5 ft		SD	Soil-Surf	sample hold	050 050
3382-B4-NE	Sample	7/1/2020	11:30			G	0.5 ft		SD	Soil-Surf	sample hold	051 051
Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Phone#: 952-240-8935 Courier Name:												
Sampler's Name: * Eric Gabrielson Sampler's Signature: * Sampler's Organization: Landmark Environmental, LLC Tracking#:												
Receiving Comments:												
Relinquished By/Affiliation												
(Sampler) [Signature] Date/Time: 7/21/20 13:10 Accepted By/Affiliation: [Signature] PACE Date/Time: 7/21/20 14:45		Date/Time: 7/21/20 15:55 Accepted By/Affiliation: [Signature] PACE Date/Time: 7/21/20 15:55										

[illegible]

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number: 20093.01		COC Type: Standard		Page: 9 of 10			
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Turnaround Time: 20093.01		COC ID: 20093.01		FOR LAB USE ONLY			
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		LABORATORY		Lab Name: Pace Analytical - Minneapolis		Lab Work Order Sticker			
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN00064		Address: 1700 Elm St SE		Minneapolis, MN 55414			
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	G-Grab sample	BI-Biological Material	OT-Other	TS-Tissue	Wt-Ground-Groundwater	Wt-Surf-Surface Water	Wt-Drink-Drinking Water	QC-BLANK-Artificial Blank Water	Leachate-Leachate Sample		
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	NI-Non-potable Water	SD-Soil/Solid	AR-Air	Leachate-Leachate Sample	Air-Indoor-Indoor Air	Gas-Soil-Soil Gas				
QC-FR-Field Replicate Sample	D-T-Discrete time-paced w/AS	SW-GAS-Gas Sampling	Unknown-Unknown								
QC-TB-Trip Blank Sample	SW-GAS-Gas Sampling										
QC-EB-Equipment Blank	Unknown-Unknown										
Treated-Mid-Treatment system sample											
Treated-Post-Treatment system sample											
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	End Date* (mm/dd/yyyy)	Sampling Method*	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	Lab Sample No. #
3382-A6-0.5-1		Sample	7/2/2020 10:38	7/2/2020 10:38	G	SD	Soil-Sub	sample hold	1	Lead, 6010D	072
3382-A6-1-1.5		Sample	7/2/2020 10:39	7/2/2020 10:39	G	SD	Soil-Sub	sample hold	1		073
3382-B1-0.5-1		Sample	7/2/2020 10:55	7/2/2020 10:55	G	SD	Soil-Sub	sample hold	1		074
3382-B1-1-1.5		Sample	7/2/2020 10:57	7/2/2020 10:57	G	SD	Soil-Sub	sample hold	1		075
3382-B2-0.5-1		Sample	7/2/2020 11:10	7/2/2020 11:10	G	SD	Soil-Sub	sample hold	1		076
3382-B2-1-1.5		Sample	7/2/2020 11:12	7/2/2020 11:12	G	SD	Soil-Sub	sample hold	1		077
3382-B3-0.5-1		Sample	7/2/2020 11:23	7/2/2020 11:23	G	SD	Soil-Sub	sample hold	1		078
3382-B3-1-1.5		Sample	7/2/2020 11:25	7/2/2020 11:25	G	SD	Soil-Sub	sample hold	1		079
3382-B4-0.5-1		Sample	7/2/2020 11:34	7/2/2020 11:34	G	SD	Soil-Sub	sample hold	1		080
3382-B4-1-1.5		Sample	7/2/2020 11:38	7/2/2020 11:38	G	SD	Soil-Sub	sample hold	1		081
Sampler's Name: * Eric Gabrielson		Phone: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St. Bloomington, MN 55431		Acc#: 20093.01			
Sampler's Signature: *				Courier Name: Landmark Environmental, LLC		Tracking#:					
Sampler's Organization: *											
Receiving Comments: *											
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time					
(Sampler)		7/2/20 13:10		Pace		7/2/20 13:10					
		7/2/20 13:05		Pace		7/2/20 13:05					
		7/2/20 15:55		Pace		7/2/20 15:55					

Project Managers: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (emails shown above)

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[illegible]

832

Client Name:

MPCA

Project #:

WO#: 10525717

PM: AKA

Due Date: 07/24/20

CLIENT: LANDMARK ENV

☐ Fed Ex

☐ UPS

☐ USPS

☐ Client

☒ Pace

☐ Speedee

☐ Commercial

See Exceptions

Tracking Number:

Custody Seal on Cooler/Box Present?

☐ Yes

☒ No

Seals Intact?

☐ Yes

☒ No

Biological Tissue Frozen?

☐ Yes

☐ No

☒ N/A

Packing Material:

☒ Bubble Wrap

☐ Bubble Bags

☐ None

☐ Other:

Temp Blank?

☒ Yes

☐ No

Thermometer:

☐ T1(0461)

☐ T2(1336)

☐ T3(0459)

☐ T4(0254)

☒ T5(0489)

Type of Ice:

☒ Wet

☐ Blue

☐ None

☐ Dry

☐ Melted

Did Samples Originate in West Virginia?

☐ Yes

☒ No

Were All Container Temps Taken?

☐ Yes

☐ No

☒ N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank:

23.8

°C

Average Corrected Temp

(no temp blank only):

☐ See Exceptions

☐ 1 Container

Correction Factor:

1.0

Cooler Temp Corrected w/temp blank:

23.8

°C

USDA Regulated Soil: (☐ N/A, water sample/Other:)

Date/Initials of Person Examining Contents:

MK2 7-21-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?

☐ Yes

☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

☐ Yes

☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6. RUSH 3 Day
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: See Exception ☐
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☒ No See Exception ☐ Chlorine? ☐ No pH Paper Lot# ☐
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☒ No ☐ N/A	13. See Exception ☐
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☒ No ☐ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Field Data Required?

☐ Yes

☐ No

Comments/Resolution:

Project Manager Review:

[Signature]

Date: 7/22/20

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

SCUR Exceptions:

Workorder #:[illegible][illegible][illegible]

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 23, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525687

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525687001	3386-C1	Solid	07/21/20 08:28	07/21/20 15:55
10525687002	3386-C3	Solid	07/21/20 08:42	07/21/20 15:55
10525687003	3386-C4	Solid	07/21/20 08:56	07/21/20 15:55
10525687004	3386-C5	Solid	07/21/20 09:09	07/21/20 15:55
10525687005	3386-C1-NW	Solid	07/21/20 08:18	07/21/20 15:55
10525687006	3386-C1-NE	Solid	07/21/20 08:20	07/21/20 15:55
10525687007	3386-C1-SW	Solid	07/21/20 08:25	07/21/20 15:55
10525687008	3386-C1-SE	Solid	07/21/20 08:22	07/21/20 15:55
10525687009	3386-C3-NW	Solid	07/21/20 08:34	07/21/20 15:55
10525687010	3386-C3-NE	Solid	07/21/20 08:36	07/21/20 15:55
10525687011	3386-C4-NW	Solid	07/21/20 08:48	07/21/20 15:55
10525687012	3386-C4-NE	Solid	07/21/20 08:50	07/21/20 15:55
10525687013	3386-C4-SW	Solid	07/21/20 08:55	07/21/20 15:55
10525687014	3386-C4-SE	Solid	07/21/20 08:53	07/21/20 15:55
10525687015	3386-C5-NW	Solid	07/21/20 09:04	07/21/20 15:55
10525687016	3386-C5-NE	Solid	07/21/20 09:05	07/21/20 15:55
10525687017	3386-C5-SW	Solid	07/21/20 09:08	07/21/20 15:55
10525687018	3386-C5-SE	Solid	07/21/20 09:06	07/21/20 15:55
10525687019	3386-C3-SE	Solid	07/21/20 08:38	07/21/20 15:55
10525687020	3386-C3-SW	Solid	07/21/20 08:40	07/21/20 15:55
10525687021	3386-C1-0.5-1	Solid	07/21/20 08:31	07/21/20 15:55
10525687022	3386-C1-1-1.5	Solid	07/21/20 08:33	07/21/20 15:55
10525687023	3386-C3-0.5-1	Solid	07/21/20 08:45	07/21/20 15:55
10525687024	3386-C3-1-1.5	Solid	07/21/20 08:46	07/21/20 15:55
10525687025	3386-C4-0.5-1	Solid	07/21/20 09:00	07/21/20 15:55
10525687026	3386-C4-1-1.5	Solid	07/21/20 09:03	07/21/20 15:55
10525687027	3386-C5-0.5-1	Solid	07/21/20 09:10	07/21/20 15:55
10525687028	3386-C5-1-1.5	Solid	07/21/20 09:12	07/21/20 15:55
10525687029	M-12	Solid	07/21/20 08:30	07/21/20 15:55

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525687001	3386-C1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525687002	3386-C3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525687003	3386-C4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525687004	3386-C5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525687029	M-12	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Sample: 3386-C1 **Lab ID: 10525687001** Collected: 07/21/20 08:28 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	11.5	mg/kg	0.53	0.12	1	07/22/20 10:30	07/22/20 18:16	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.8	%	0.10	0.10	1		07/22/20 13:42		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Sample: 3386-C3 **Lab ID: 10525687002** Collected: 07/21/20 08:42 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	24.9	mg/kg	0.58	0.13	1	07/22/20 10:30	07/22/20 18:17	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.5	%	0.10	0.10	1		07/22/20 13:42		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Sample: 3386-C4 **Lab ID: 10525687003** Collected: 07/21/20 08:56 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	30.9	mg/kg	0.61	0.14	1	07/22/20 10:30	07/22/20 18:19	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	20.6	%	0.10	0.10	1		07/22/20 13:42		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Sample: 3386-C5 **Lab ID: 10525687004** Collected: 07/21/20 09:09 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	18.1	mg/kg	0.64	0.14	1	07/22/20 10:30	07/22/20 18:21	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	22.7	%	0.10	0.10	1		07/22/20 13:42		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Sample: M-12 **Lab ID: 10525687029** Collected: 07/21/20 08:30 Received: 07/21/20 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	8.1	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 18:22	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.2	%	0.10	0.10	1		07/22/20 13:42		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

QC Batch: 688260

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525687001, 10525687002, 10525687003, 10525687004, 10525687029

METHOD BLANK: 3681509

Matrix: Solid

Associated Lab Samples: 10525687001, 10525687002, 10525687003, 10525687004, 10525687029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.47	0.47	0.11	07/22/20 17:42	

LABORATORY CONTROL SAMPLE: 3681510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.3	46.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681511 3681512

Parameter	Units	10525371036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	38.2	62.9	65.9	97.2	104	94	100	75-125	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

QC Batch:	688312	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525687001, 10525687002, 10525687003, 10525687004, 10525687029

SAMPLE DUPLICATE: 3682313

Parameter	Units	10525687001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.8	15.0	1	30	N2

SAMPLE DUPLICATE: 3682314

Parameter	Units	10525398004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.1	17.5	2	30	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525687

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525687

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525687

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525687001	3386-C1	EPA 3050B	688260	EPA 6010D	688507
10525687002	3386-C3	EPA 3050B	688260	EPA 6010D	688507
10525687003	3386-C4	EPA 3050B	688260	EPA 6010D	688507
10525687004	3386-C5	EPA 3050B	688260	EPA 6010D	688507
10525687029	M-12	EPA 3050B	688260	EPA 6010D	688507
10525687001	3386-C1	ASTM D2974	688312		
10525687002	3386-C3	ASTM D2974	688312		
10525687003	3386-C4	ASTM D2974	688312		
10525687004	3386-C5	ASTM D2974	688312		
10525687029	M-12	ASTM D2974	688312		

REPORT OF LABORATORY ANALYSIS

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Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form

Work Order Number: 6

COC Type: Standard

Page: 1 of 6

FOR LAB USE ONLY

Turnaround Time: Rush 3 day

LABORATORY

Lab Name: Pace Analytical - Minneapolis

Address: 1700 Elm St SE

Minneapolis, MN 55414

EPA Lab ID: MN000064

Project Name: 3344 Highway 149 Adjacent Property, Eagan

Project Task Code: PRJ08104

Project Manager: michael.grisbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com

Potential Hazard? N

If yes, add information to Sampler Comments field

W0#: 10525687



SAMPLE DETAILS

SAMPLE TYPES	SAMPLING METHODS	LAB MATRICES	FIELD MATRICES	Depth	Sampling Method	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix	Field Matrix	# of Cont	Sampler Comments (filter volume, special handling, etc.)	Lab Sample No.	#
QC-Blank	G-Grab sample	BL-Biological Material	Wt-Ground=Groundwater	0	CO	7/21/2020	8:28	SD	Soil-Surf	1		001	1
QC-Field Replicate Sample	CF-Composite, time-paced w/AS	OT-Other	Wt-Surf=Surface Water	0	CO	7/21/2020	8:42	SD	Soil-Surf	1		002	2
QC-Trip Blank Sample	CF-Composite, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	8:50	SD	Soil-Surf	1		003	3
QC-Trip Blank Sample	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		004	4
QC-ED-Equipment Blank	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		005	5
QC-ED-Equipment Blank	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		006	6
QC-ED-Equipment Blank	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		007	7
QC-ED-Equipment Blank	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		008	8
QC-ED-Equipment Blank	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		009	9
QC-ED-Equipment Blank	D-T-Discrete, time-paced w/AS	TS-Tissue	Wt-Surf=Drinking Water	0	CO	7/21/2020	9:09	SD	Soil-Surf	1		010	10

Billing Organization: Landmark Environmental, LLC

Address: 2042 W. 98th St., Bloomington, MN 55431

Phone#: 952-240-8935

Acc#: 20093.01

Tracking#:

Relinquished By/Affiliation

Date/Time

Accepted By/Affiliation

Date/Time

7/21/20 12:00

7/21/20 14:45

7/21/20 15:55

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Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 3 of 8													
		* indicates a required field				Turnaround Time: 2 business days		COC ID:		FOR LAB USE ONLY													
PROJECT/CLIENT INFO		LABORATORY																					
Facility Code: MND006148092		Program Code (MDH Lab Only):				Lab Name: Pace Analytical - Minneapolis																	
Project Name: 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: PRJ08104				Address: 1700 Elm St SE																	
Project Manager: michael.ginsbach@state.mn.us, svandryn@landmarkenv.com, angela.fogarty@gopherresource.com						Minneapolis, MN 55414																	
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: MN00064				Lab Work Order Sticker													
SAMPLE DETAILS																							
MN Location Identifier*	Field Name	Sample Type*	SAMPLING METHODS		Start Date* (mm/dd/yyyy)	Start Time* (hr:mm)	LAB MATRICES		Depth	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hr:mm)	Lab Matrix*	Field Matrix*	ALS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES	ANALYSIS REQUESTED	Lab Sample No. #	
			G-Grab sample	CF-Composite, time-paced w/AS			DW-Drinking Water	BL-Biological Material															OT-Other
3386-01-NW		Sample	7/10/2020	8:10	0	0.5	ft	G					SD	Soil-Surf		Sample hold						005	1
3386-01-NE		Sample	7/10/2020	8:20	0	0.5	ft	G					SD	Soil-Surf		Sample hold						006	2
3386-01-SW		Sample	7/10/2020	8:15	0	0.5	ft	G					SD	Soil-Surf		Sample hold						007	3
3386-01-SE		Sample	7/10/2020	8:22	0	0.5	ft	G					SD	Soil-Surf		Sample hold						008	4
3386-02-NW		Sample	7/10/2020		0	0.5	ft	G					SD	Soil-Surf		Sample hold							5
3386-02-NE		Sample	7/10/2020		0	0.5	ft	G					SD	Soil-Surf		Sample hold							6
3386-02-SW		Sample	7/10/2020		0	0.5	ft	G					SD	Soil-Surf		Sample hold							7
3386-02-SE		Sample	7/10/2020		0	0.5	ft	G					SD	Soil-Surf		Sample hold							8
3386-03-NW		Sample	7/10/2020	8:34	0	0.5	ft	G					SD	Soil-Surf		Sample hold						009	9
3386-03-NE		Sample	7/10/2020	8:30	0	0.5	ft	G					SD	Soil-Surf		Sample hold						010	10
Sampler's Name: Eric Gabrielson		Phone#: 952-240-8935				Billing Organization: Landmark Environmental, LLC		Acc#: 20093.01															
Sampler's Signature: [Signature]		Address: 2042 W. 98th St., Bloomington, MN 55431				Courier Name:		Tracking#:															
Sampler's Organization: Landmark Environmental, LLC																							
Receiving Comments:																							
Relinquished By/Affiliation																							
(Sampler)		Date/Time		Accepted By/Affiliation		Date/Time																	
[Signature]		7/17/20		[Signature]		7/21/20 13:10																	
[Signature]		7/21/20 13:10		[Signature]		7/21/20 14:45																	
[Signature]		7/21/20 15:55		[Signature]		7/21/20 15:55																	

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Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form version 2017.0328		Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: <u>10</u>										
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Turnaround Time: <u>2 days</u>		COC ID: <u>LABORATORY</u>		FOR LAB USE ONLY										
Project Manager: * michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE		Lab Work Order Sticker										
Potential Hazard? * N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN000064		Minneapolis, MN 55414												
SAMPLE DETAILS																		
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	Depth (m or ft)	Sampling Method*	End Date (mm/dd/yyyy)	End Time (hh:mm)	Lab Matrix* AIS	Field Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas	ANALYSIS REQUESTED	Lab Sample No.	#
3386-B2-SW	3386-C3 SE	Sample	7/2/2020	8:38	0.5 ft	G			SD	Soil-Surf	sample hold						014	1
3386-B2-SW	3386-C3 SW	Sample	7/2/2020	8:40	0.5 ft	G			SD	Soil-Surf	sample hold						070	2
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							3
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							4
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							5
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							6
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							7
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							8
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							9
3386-B2-SW	3386-C3 SW	Sample	7/2/2020		0.5 ft	G			SD	Soil-Surf	sample hold							10
Biller's Name: * Eric Gabrielsen Phone#: 952-240-8935 Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Acct#: 20093.01																		
Sampler's Signature: *																		
Sampler's Organization: Landmark Environmental, LLC																		
Receiving Comments:																		
Relinquished By/Affiliation:																		
Date/Time: 7/2/20										Accepted By/Affiliation: PAER		Date/Time: 7/2/20 13:00						
Date/Time: 7/2/20 13:00										Accepted By/Affiliation: Angela B/PAER		Date/Time: 7/2/20 14:45						
Date/Time: 7/2/20 15:55										Accepted By/Affiliation: Angela B/PAER		Date/Time: 7/2/20 15:55						

Project Managers: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (emails shown above)

	MPCA Chain-of-Custody Form * indicates a required field		Work Order Number: 20093.01		COC Type: Standard		Page: 10												
	PROJECT/CLIENT INFO		Turnaround Time: 20093.01		COC ID:		FOR LAB USE ONLY												
Facility Code:*	MND006148092		Program Code (MDH Lab Only):		LABORATORY														
Project Name:*	3344 Highway 149 Adjacent Property, Eagan		Project Task Code: * PRJ08104		Lab Name: Pace Analytical - Minneapolis														
Project Manager:	michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com				Address: 1700 Elm St SE														
Potential Hazard?	N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN000064		Lab Work Order Sticker												
SAMPLE DETAILS																			
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED											
Sample-Routine Sample Sample-Field Blank Sample QC-FB-Field Blank Sample QC-FB-Field Replicate Sample QC-TB-Trip Blank Sample QC-TB-Trip Replicate Sample QC-FB-Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample		G=Grab sample CT=Composite, time-paced w/AS CF=Composite w/AS D-T=Discrete, time-paced w/AS D-F=Discrete, flow-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown		BI=Biological Material OI=Other TS=Tissue		We-Cleanse Groundwater We-Surface Water We-Drinking Water QC-BLANK=Artificial Blank Water Leachate-Leachate Sample Air-Indoor/Outdoor Air Gas-Soil-Gas		ANALYSIS REQUESTED											
Sample Type*		Start Date* (mm/dd/yyyy)		End Date (mm/dd/yyyy)		Sampling Method*		Field Matrix*		Lab Matrix*		Field Matrix*		Lab Matrix*		Field Matrix*		Lab Matrix*	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		1		1.5		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		1		1.5		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub		AIS	
Sample		7/1/2020		8/31		0.5		1		ft		G		SD		Soil-Sub			

[illegible]

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>Landmark Env.</u>	Project #: WO# : 10525687
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/24/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____	Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>17.2</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>True</u> Cooler Temp Corrected w/temp blank: <u>17.2</u> °C	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: CEG 7/2/20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	
Containers Intact? ☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Positive for Res. ☐ Yes ☐ No ☐ See Exception
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Chlorine? ☐ Yes ☐ No pH Paper Lot# ☐
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____

Project Manager Review: Amu Asp Date: 7/21/2020
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

July 23, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525503

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525503001	3390-A1	Solid	07/20/20 12:48	07/20/20 16:37
10525503002	3390-A2	Solid	07/20/20 13:02	07/20/20 16:37
10525503003	3390-A3	Solid	07/20/20 13:20	07/20/20 16:37
10525503004	3390-A4	Solid	07/20/20 13:31	07/20/20 16:37
10525503005	3390-A5	Solid	07/20/20 13:43	07/20/20 16:37
10525503006	3390-A6	Solid	07/20/20 14:00	07/20/20 16:37
10525503007	3390-B1	Solid	07/20/20 14:13	07/20/20 16:37
10525503008	3390-B2	Solid	07/20/20 14:34	07/20/20 16:37
10525503009	3390-B3	Solid	07/20/20 14:47	07/20/20 16:37
10525503010	3390-B4	Solid	07/20/20 14:57	07/20/20 16:37
10525503011	3390-B5	Solid	07/20/20 15:08	07/20/20 16:37
10525503012	3390-B6	Solid	07/20/20 15:21	07/20/20 16:37
10525503013	M-11	Solid	07/20/20 14:00	07/20/20 16:37
10525503014	3390-A1-NW	Solid	07/20/20 12:41	07/20/20 16:37
10525503015	3390-A1-NE	Solid	07/20/20 12:43	07/20/20 16:37
10525503016	3390-A1-SW	Solid	07/20/20 12:47	07/20/20 16:37
10525503017	3390-A1-SE	Solid	07/20/20 12:44	07/20/20 16:37
10525503018	3390-A2-NW	Solid	07/20/20 12:55	07/20/20 16:37
10525503019	3390-A2-NE	Solid	07/20/20 12:56	07/20/20 16:37
10525503020	3390-A2-SW	Solid	07/20/20 13:01	07/20/20 16:37
10525503021	3390-A2-SE	Solid	07/20/20 12:57	07/20/20 16:37
10525503022	3390-A3-NW	Solid	07/20/20 13:11	07/20/20 16:37
10525503023	3390-A3-NE	Solid	07/20/20 13:12	07/20/20 16:37
10525503024	3390-A4-NW	Solid	07/20/20 13:24	07/20/20 16:37
10525503025	3390-A4-NE	Solid	07/20/20 13:26	07/20/20 16:37
10525503026	3390-A4-SW	Solid	07/20/20 13:30	07/20/20 16:37
10525503027	3390-A4-SE	Solid	07/20/20 13:28	07/20/20 16:37
10525503028	3390-A5-NW	Solid	07/20/20 13:38	07/20/20 16:37
10525503029	3390-A5-NE	Solid	07/20/20 13:40	07/20/20 16:37
10525503030	3390-A5-SW	Solid	07/20/20 13:42	07/20/20 16:37
10525503031	3390-A5-SE	Solid	07/20/20 13:41	07/20/20 16:37
10525503032	3390-A6-NW	Solid	07/20/20 13:53	07/20/20 16:37
10525503033	3390-A6-NE	Solid	07/20/20 13:54	07/20/20 16:37
10525503034	3390-A6-SW	Solid	07/20/20 13:19	07/20/20 16:37
10525503035	3390-A6-SE	Solid	07/20/20 13:57	07/20/20 16:37
10525503036	3390-B1-NW	Solid	07/20/20 13:59	07/20/20 16:37
10525503037	3390-B1-NE	Solid	07/20/20 14:09	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525503038	3390-B1-SW	Solid	07/20/20 14:12	07/20/20 16:37
10525503039	3390-B1-SE	Solid	07/20/20 14:10	07/20/20 16:37
10525503040	3390-B2-NW	Solid	07/20/20 14:29	07/20/20 16:37
10525503041	3390-B2-NE	Solid	07/20/20 14:30	07/20/20 16:37
10525503042	3390-B2-SW	Solid	07/20/20 14:33	07/20/20 16:37
10525503043	3390-B2-SE	Solid	07/20/20 14:31	07/20/20 16:37
10525503044	3390-B3-NW	Solid	07/20/20 14:40	07/20/20 16:37
10525503045	3390-B3-NE	Solid	07/20/20 14:41	07/20/20 16:37
10525503046	3390-B3-SW	Solid	07/20/20 14:46	07/20/20 16:37
10525503047	3390-B3-SE	Solid	07/20/20 14:45	07/20/20 16:37
10525503048	3390-B4-NW	Solid	07/20/20 14:53	07/20/20 16:37
10525503049	3390-B4-NE	Solid	07/20/20 14:54	07/20/20 16:37
10525503050	3390-B4-SW	Solid	07/20/20 14:57	07/20/20 16:37
10525503051	3390-B4-SE	Solid	07/20/20 14:55	07/20/20 16:37
10525503052	3390-B5-NW	Solid	07/20/20 15:04	07/20/20 16:37
10525503053	3390-B5-NE	Solid	07/20/20 15:05	07/20/20 16:37
10525503054	3390-B5-SW	Solid	07/20/20 15:07	07/20/20 16:37
10525503055	3390-B5-SE	Solid	07/20/20 15:06	07/20/20 16:37
10525503056	3390-B6-SW	Solid	07/20/20 15:19	07/20/20 16:37
10525503057	3390-B6-SE	Solid	07/20/20 15:20	07/20/20 16:37
10525503058	3390-B6-NW	Solid	07/20/20 15:04	07/20/20 16:37
10525503059	3390-B6-NE	Solid	07/20/20 15:18	07/20/20 16:37
10525503060	3390-A1-0.5-1	Solid	07/20/20 12:50	07/20/20 16:37
10525503061	3390-A1-1-1.5	Solid	07/20/20 12:51	07/20/20 16:37
10525503062	3390-A2-0.5-1	Solid	07/20/20 13:04	07/20/20 16:37
10525503063	3390-A2-1-1.5	Solid	07/20/20 13:04	07/20/20 16:37
10525503064	3390-A3-0.5-1	Solid	07/20/20 13:18	07/20/20 16:37
10525503065	3390-A3-1-1.5	Solid	07/20/20 13:19	07/20/20 16:37
10525503066	3390-A4-0.5-1	Solid	07/20/20 13:34	07/20/20 16:37
10525503067	3390-A4-1-1.5	Solid	07/20/20 13:34	07/20/20 16:37
10525503068	3390-A5-0.5-1	Solid	07/20/20 13:45	07/20/20 16:37
10525503069	3390-A5-1-1.5	Solid	07/20/20 13:46	07/20/20 16:37
10525503070	3390-A6-0.5-1	Solid	07/20/20 14:02	07/20/20 16:37
10525503071	3390-A6-1-1.5	Solid	07/20/20 14:02	07/20/20 16:37
10525503072	3390-B1-0.5-1	Solid	07/20/20 14:14	07/20/20 16:37
10525503073	3390-B1-1-1.5	Solid	07/20/20 14:15	07/20/20 16:37
10525503074	3390-B2-0.5-1	Solid	07/20/20 14:35	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525503075	3390-B2-1-1.5	Solid	07/20/20 14:36	07/20/20 16:37
10525503076	3390-B3-0.5-1	Solid	07/20/20 14:49	07/20/20 16:37
10525503077	3390-B3-1-1.5	Solid	07/20/20 14:50	07/20/20 16:37
10525503078	3390-B4-0.5-1	Solid	07/20/20 14:59	07/20/20 16:37
10525503079	3390-B4-1-1.5	Solid	07/20/20 15:00	07/20/20 16:37
10525503080	3390-B5-0.5-1	Solid	07/20/20 15:10	07/20/20 16:37
10525503081	3390-B5-1-1.5	Solid	07/20/20 15:11	07/20/20 16:37
10525503082	3390-B6-0.5-1	Solid	07/20/20 15:23	07/20/20 16:37
10525503083	3390-B6-1-1.5	Solid	07/20/20 15:23	07/20/20 16:37
10525503084	3390-A3-SW	Solid	07/20/20 13:14	07/20/20 16:37
10525503085	3390-A3-SE	Solid	07/20/20 13:20	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525503001	3390-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503002	3390-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503003	3390-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503004	3390-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503005	3390-A5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503006	3390-A6	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503007	3390-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503008	3390-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503009	3390-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503010	3390-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503011	3390-B5	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503012	3390-B6	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525503013	M-11	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-A1 **Lab ID: 10525503001** Collected: 07/20/20 12:48 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	58.9	mg/kg	0.58	0.13	1	07/22/20 10:30	07/22/20 16:55	7439-92-1	M1
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.4	%	0.10	0.10	1		07/21/20 15:24		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-A2 **Lab ID: 10525503002** Collected: 07/20/20 13:02 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	29.9	mg/kg	0.56	0.13	1	07/22/20 10:30	07/22/20 17:04	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.5	%	0.10	0.10	1		07/21/20 15:24		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-A3 **Lab ID: 10525503003** Collected: 07/20/20 13:20 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	108	mg/kg	0.51	0.12	1	07/22/20 10:30	07/22/20 17:05	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	11.3	%	0.10	0.10	1		07/21/20 15:24		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-A4 **Lab ID: 10525503004** Collected: 07/20/20 13:31 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	73.9	mg/kg	0.58	0.13	1	07/22/20 10:30	07/22/20 17:07	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.1	%	0.10	0.10	1		07/21/20 15:24		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-A5 **Lab ID: 10525503005** Collected: 07/20/20 13:43 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	86.4	mg/kg	0.53	0.12	1	07/22/20 10:30	07/22/20 17:09	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.7	%	0.10	0.10	1		07/21/20 15:25		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-A6 **Lab ID: 10525503006** Collected: 07/20/20 14:00 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	223	mg/kg	0.56	0.13	1	07/22/20 10:30	07/22/20 17:10	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	17.4	%	0.10	0.10	1		07/21/20 15:25		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-B1 **Lab ID: 10525503007** Collected: 07/20/20 14:13 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	29.7	mg/kg	0.56	0.13	1	07/22/20 10:30	07/22/20 17:15	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.9	%	0.10	0.10	1		07/21/20 15:25		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-B2 **Lab ID: 10525503008** Collected: 07/20/20 14:34 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	21.9	mg/kg	0.56	0.13	1	07/22/20 10:30	07/22/20 17:17	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	11.4	%	0.10	0.10	1		07/21/20 15:25		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-B3 **Lab ID: 10525503009** Collected: 07/20/20 14:47 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	28.5	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 17:19	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	10.9	%	0.10	0.10	1		07/21/20 15:25		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-B4 **Lab ID: 10525503010** Collected: 07/20/20 14:57 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	83.5	mg/kg	0.56	0.13	1	07/22/20 10:30	07/22/20 17:20	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.9	%	0.10	0.10	1		07/21/20 15:25		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-B5 **Lab ID: 10525503011** Collected: 07/20/20 15:08 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	72.4	mg/kg	0.56	0.13	1	07/22/20 10:30	07/22/20 17:22	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.9	%	0.10	0.10	1		07/21/20 15:26		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: 3390-B6 **Lab ID: 10525503012** Collected: 07/20/20 15:21 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	125	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 17:24	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.0	%	0.10	0.10	1		07/21/20 15:26		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Sample: M-11 **Lab ID: 10525503013** Collected: 07/20/20 14:00 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	165	mg/kg	0.58	0.13	1	07/22/20 10:30	07/22/20 17:25	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	16.2	%	0.10	0.10	1		07/21/20 15:26		N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

QC Batch:	688259	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3050B	Analysis Description:	6010D Solids
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525503001, 10525503002, 10525503003, 10525503004, 10525503005, 10525503006, 10525503007, 10525503008, 10525503009, 10525503010, 10525503011, 10525503012, 10525503013		

METHOD BLANK:	3681505	Matrix:	Solid
Associated Lab Samples:	10525503001, 10525503002, 10525503003, 10525503004, 10525503005, 10525503006, 10525503007, 10525503008, 10525503009, 10525503010, 10525503011, 10525503012, 10525503013		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/22/20 16:49	

LABORATORY CONTROL SAMPLE: 3681506						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49.5	49.6	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:												
3681507					3681508							
		10525503001	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter	Units	Result										
Lead	mg/kg	58.9	56.6	55.1	130	111	126	95	75-125	15	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

QC Batch:	688157	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples:	10525503001, 10525503002, 10525503003, 10525503004, 10525503005, 10525503006, 10525503007, 10525503008, 10525503009, 10525503010, 10525503011, 10525503012, 10525503013		

SAMPLE DUPLICATE: 3680268

Parameter	Units	10525371036 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.0	20.5	27	30	N2

SAMPLE DUPLICATE: 3680269

Parameter	Units	10525504002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.1	13.1	8	30	N2

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525503

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525503

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525503001	3390-A1	EPA 3050B	688259	EPA 6010D	688508
10525503002	3390-A2	EPA 3050B	688259	EPA 6010D	688508
10525503003	3390-A3	EPA 3050B	688259	EPA 6010D	688508
10525503004	3390-A4	EPA 3050B	688259	EPA 6010D	688508
10525503005	3390-A5	EPA 3050B	688259	EPA 6010D	688508
10525503006	3390-A6	EPA 3050B	688259	EPA 6010D	688508
10525503007	3390-B1	EPA 3050B	688259	EPA 6010D	688508
10525503008	3390-B2	EPA 3050B	688259	EPA 6010D	688508
10525503009	3390-B3	EPA 3050B	688259	EPA 6010D	688508
10525503010	3390-B4	EPA 3050B	688259	EPA 6010D	688508
10525503011	3390-B5	EPA 3050B	688259	EPA 6010D	688508
10525503012	3390-B6	EPA 3050B	688259	EPA 6010D	688508
10525503013	M-11	EPA 3050B	688259	EPA 6010D	688508
10525503001	3390-A1	ASTM D2974	688157		
10525503002	3390-A2	ASTM D2974	688157		
10525503003	3390-A3	ASTM D2974	688157		
10525503004	3390-A4	ASTM D2974	688157		
10525503005	3390-A5	ASTM D2974	688157		
10525503006	3390-A6	ASTM D2974	688157		
10525503007	3390-B1	ASTM D2974	688157		
10525503008	3390-B2	ASTM D2974	688157		
10525503009	3390-B3	ASTM D2974	688157		
10525503010	3390-B4	ASTM D2974	688157		
10525503011	3390-B5	ASTM D2974	688157		
10525503012	3390-B6	ASTM D2974	688157		
10525503013	M-11	ASTM D2974	688157		

REPORT OF LABORATORY ANALYSIS

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WO#: 10525503



Page: 10525503

	MPCA Chain-of-Custody Form revision 2017.0328		Work Order Number: <u> </u>	COC Type: Standard
	* indicates a required field		Turnaround Time: Rush 3 day	COC ID:
PROJECT/CLIENT INFO				
Facility Code: MND006148092	Program Code (MDH Lab Only):		LABORATORY	
Project Name: 3344 Highway 149 Adjacent Property, Eagan	Project Task Code: PR08104		Lab Name: Pace Analytical - Minneapolis	
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com			Address: 1700 Elm St SE Minneapolis, MN 55414	
Potential Hazard? N	If yes, add information to Sampler Comments field		EPA Lab ID: MN00064	

MN Location Identifier*	Field Name	Sample Type*	SAMPLING METHODS		LAB MATRICES		SAMPLE DETAILS		FIELD MATRICES		ANALYSIS REQUESTED	
			Sample Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Time (hh:mm)	Depth (in or ft)	Sampling Method*	End Date (mm/dd/yyyy)	Lab Matrix*	Field Matrix* AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont
3390-A1		Sample	7/20/2020	17:48	0	0.5 ft	CO		SD	Soil-Surf		1
3390-A2		Sample	7/20/2020	17:02	0	0.5 ft	CO		SD	Soil-Surf		1
3390-A3		Sample	7/20/2020	17:20	0	0.5 ft	CO		SD	Soil-Surf		1
3390-A4		Sample	7/20/2020	17:21	0	0.5 ft	CO		SD	Soil-Surf		1
3390-A5		Sample	7/20/2020	17:43	0	0.5 ft	CO		SD	Soil-Surf		1
3390-A6		Sample	7/20/2020	17:00	0	0.5 ft	CO		SD	Soil-Surf		1
3390-B1		Sample	7/20/2020	17:17	0	0.5 ft	CO		SD	Soil-Surf		1
3390-B2		Sample	7/20/2020	17:34	0	0.5 ft	CO		SD	Soil-Surf		1
3390-B3		Sample	7/20/2020	17:47	0	0.5 ft	CO		SD	Soil-Surf		1
3390-B4		Sample	7/20/2020	17:57	0	0.5 ft	CO		SD	Soil-Surf		1

Sampler's Name: Eric Gabrielson	Phone#: 952-240-8935	Billing Organization: Landmark Environmental, LLC	Acc#: 20093.01
Sampler's Signature:	Address: 2042 W. 98th St., Bloomington, MN 55431		
Sampler's Organization:	Courier Name:		
Tracking#:			

Receiving Comments:	
Relinquished By/Affiliation	Date/Time
(Sampler)	7/20/20 16:37
Project Managers: Michael Ginsbach, Sherry Van Duan, Angela Fogarty (emails shown above)	7/20/20 16:37

12.2, 9.6, 12.2, 13

[illegible]

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page: 3 of 10	
Facility Code: * MND006148092		Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Turnaround Time: ~~High 3 Day~~		COC ID:		FOR LAB USE ONLY	
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104		LABORATORY		COC ID:		FOR LAB USE ONLY	
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN000664		Lab Name: Pace Analytical - Minneapolis		Lab Work Order Sticker	
Address: 1700 Elm St SE		Minneapolis, MN 55414		Billing Organization: Landmark Environmental, LLC		Address: 2042 W. 98th St., Bloomington, MN 55431		Accr#: 20093.01	
Phone: 952-240-8935		Phone: 952-240-8935		Courier Name:		Tracking#:			
SAMPLE TYPES		SAMPLING METHODS		LABORATORY		ANALYSIS REQUESTED			
Sample-Routine Sample		G-Grab sample		Field Matrix*		Field Matrix*			
QC-FB-Field Blank Sample		CT-Composite, time-paced w/AS		Lab Matrix*		Lab Matrix*			
QC-FR-Field Replicate Sample		NW-Non-potable Water		End Date (mm/dd/yyyy)		End Date (mm/dd/yyyy)			
QC-TB-Trip Blank Sample		D-T-Discrete, time-paced w/AS		Sampling Method*		Sampling Method*			
QC-EB-Equipment Blank		D-F-Discrete, flow-paced w/AS		Depth		Depth			
Treated-Mid-Treatment system sample		SW-GAS-Gas Sampling		Start (mm/dd/yyyy)		Start (mm/dd/yyyy)			
Treated-Post-Treatment system sample		Unknown-Unknown		End (mm/dd/yyyy)		End (mm/dd/yyyy)			
MN Location Identifier*		Sample Type*		Start Time* (hh:mm)		End Time (hh:mm)		Sampler Comments (filter volume, special handling, etc.)	
3390-A1-NW	Sample	7/20/2020 12:41	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS* HOLD	Lab Sample No. # 019
3390-A1-NE	Sample	7/20/2020 12:43	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 015
3390-A1-SW	Sample	7/20/2020 12:47	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 016
3390-A1-SE	Sample	7/20/2020 12:49	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 017
3390-A2-NW	Sample	7/20/2020 12:55	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 018
3390-A2-NE	Sample	7/20/2020 12:56	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 019
3390-A2-SW	Sample	7/20/2020 13:01	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 020
3390-A2-SE	Sample	7/20/2020 13:57	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 021
3390-A3-NW	Sample	7/20/2020 13:11	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 022
3390-A3-NE	Sample	7/20/2020 13:12	0 0.5 ft	G	SD	Soil-Surf	Sample hold	ANALYSIS*	Lab Sample No. # 023

12, 3, 9, 6, 12, 7, 13

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page: 4 of 10								
Project Name:		Project Task Code:		Turnaround Time:		COC ID:		FOR LAB USE ONLY								
Facility Code: MND006148092		Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis		COC ID:		Lab Work Order Sticker								
Project Name: 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: PRJ08104		Address: 1700 Elm St SE		COC ID:										
Project Manager: michael.ginsbach@state.mn.us, svanduyin@landmarkenv.com, angela.fogarty@gopherresource.com		EPA Lab ID: MN000064		Minneapolis, MN 55414												
Potential Hazard?		N		If yes, add information to Sampler Comments field												
SAMPLE DETAILS																
MN Location Identifier	Field Name	Sample Type	Start Date (mm/dd/yyyy)	Start Time (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method	Units (in or ft)	Depth	LAB MATRICES DIW-Drinking Water NW-Native Water SD-Soil/Solid AR-Air	FIELD MATRICES WIR-Ground-Underwater WIR-Surf-Surface Water WIR-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Air Gas-Soil-Soil Gas	ANALYSIS*	# of Cont	Sampler Comments (filter volume, special handling, etc.)	Lab Sample No.	#
3390-A4-NW		Sample	7/2/2020	13:24			G	ft	0.5							1
3390-A4-NE		Sample	7/2/2020	13:26			G	ft	0.5							2
3390-A4-SW		Sample	7/2/2020	13:30			G	ft	0.5							3
3390-A4-SE		Sample	7/2/2020	13:38			G	ft	0.5							4
3390-A5-NW		Sample	7/2/2020	13:38			G	ft	0.5							5
3390-A5-NE		Sample	7/2/2020	13:40			G	ft	0.5							6
3390-A5-SW		Sample	7/2/2020	13:42			G	ft	0.5							7
3390-A5-SE		Sample	7/2/2020	13:44			G	ft	0.5							8
3390-A6-NW		Sample	7/2/2020	13:53			G	ft	0.5							9
3390-A6-NE		Sample	7/2/2020	13:54			G	ft	0.5							10
Billing Organization: Landmark Environmental, LLC										Phone#: 952-240-8935		Acct#: 20093.01				
Address: 2042 W. 98th St., Bloomington, MN 55431																
Courier Name:												Tracking#:				
Receiving Comments:																
Relinquished By/Affiliation																
Date/Time										Accepted By/Affiliation		Date/Time				
7/7/2020										Chloe B. Poe		7/26/20 16:37				
16:30										Michelle Poe		7/26/20 16:37				

at Ginebach, Sherry Van Duren, Angela Fogarty (emails shown above)

[illegible]

127, 96, 122, 121



Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form * indicates a required field				Work Order Number: <u>20093.01</u>		COC Type: Standard		Page: 7 of 10	
Facility Code: MND006148092		PROJECT/CLIENT INFO				Turnaround Time: <u>2-3 days</u>		COC ID:		FOR LAB USE ONLY	
Project Name: 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				LABORATORY					
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@ispherresource.com		Project Task Code: PRJ08104				Lab Name: Pace Analytical - Minneapolis					
Potential Hazard? N		If yes, add information to Sampler Comments field				Address: 1700 Elm St SE					
						Minneapolis, MN 55414					
						EPA Lab ID: MN00064				Lab Work Order Sticker	
SAMPLE TYPES Sample-Routine Sample QC-FB-Field Blank Sample QC-FR-Field Replicate Sample QC-TB-Trip Blank Sample QC-EB-Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample		SAMPLE METHODS G-Grab sample CT-Composite, time-placed w/AS CT-Composite w/AS D-T-Discrete, time-placed w/AS D-T-Discrete, flow-placed w/AS SW-GAS-Gas Sampling Unknown-Unknown		LAB MATRICES DW=Drinking Water NW=Nonpotable Water SD=Soil/Solid AR=Air		FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas		ANALYSIS REQUESTED			
SAMPLE DETAILS		Depth		Sampling Method*		End Date (mm/dd/yyyy)		Complete ONLY if Method is CT, CF, D-T, or D-F		Field Matrix*	
MN Location Identifier*		Start Time* (mm/dd/yyyy)		End Time (hh:mm)		Units (in or ft)		Sample Comments (filter volume, special handling, etc.)		# of Cont	
3390-B4-SW		7/20/2019 14:57		0		0.5 ft		sample hold		1	
3390-B4-SE		7/20/2019 14:55		0		0.5 ft		sample hold		1	
3390-B5-NW		7/20/2019 15:07		0		0.5 ft		sample hold		1	
3390-B5-NE		7/20/2019 15:05		0		0.5 ft		sample hold		1	
3390-B5-SW		7/20/2019 15:07		0		0.5 ft		sample hold		1	
3390-B5-SE		7/20/2019 15:06		0		0.5 ft		sample hold		1	
3390-B6-SW		7/20/2019 15:19		0		0.5 ft		sample hold		1	
3390-B6-SE		7/20/2019 15:20		0		0.5 ft		sample hold		1	
3390-B6-NW		7/20/2019 15:04		0		0.5 ft		sample hold		1	
3390-B6-NE		7/20/2019 15:19		0		0.5 ft		sample hold		1	
Lab Sample No.											
250										1	
251										2	
252										3	
253										4	
254										5	
255										6	
256										7	
257										8	
258										9	
259										10	
Lab Sample #											
250										1	
251										2	
252										3	
253										4	
254										5	
255										6	
256										7	
257										8	
258										9	
259										10	
Billing Organization:		Landmark Environmental, LLC		Phone#: 952-240-8935		Acct#: 20093.01					
Address:		2042 W. 98th St., Bloomington, MN 55431									
Courier Name:		Landmark Environmental, LLC									
Tracking#:											
Receiving Comments:											
Relinquished By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time					
(Sampler)		7/20/2019 16:32		Chasen B. Pace		7/20/2019 16:37					
				W.K.H. Hall		7/20/2019 16:37					
Project Managers: Michael Ginsbach, Sherry Van Dam, Angela Fogarty (emails shown above)											

12.7, 9.6, 12.2, 1.3

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number: <u>20093-01</u>		COC Type: Standard		Page: 8 of 10				
		* indicates a required field				Turnaround Time: <u>15-30 day</u>		COC ID:		FOR LAB USE ONLY				
PROJECT/CLIENT INFO		LABORATORY												
Facility Code: * MND006148092		Lab Name: Pace Analytical - Minneapolis												
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: * PRJ08104												
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com		Address: 1700 Elm St SE												
Potential Hazard? N		EPA Lab ID: * MN00064								Lab Work Order Sticker				
SAMPLE DETAILS														
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Depth (m or ft)	LAB MATRICES		FIELD MATRICES			
									Start	End				
									BI-Biological Material	OT-Other	TS-Tissue			
									DW-Drinking Water	NW-Nonpotable Water	QC-BLANK-Artificial Blank Water			
									SD-Soil/Solid	AR-Air	Leachate=Leachate Sample			
									Complete ONLY if Method is CT, CF, D-T, or D-F		Air-Indoor=Indoor Air			
											Gas-Soil=Soil Gas			
ANALYSIS REQUESTED														
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Depth (m or ft)	LAB MATRICES	FIELD MATRICES	ANALYSIS*	# of Cont	Sampler Comments (Filter volume, special handling, etc.)	Lab Sample No.
3390-A1-0.5-1		Sample	7/10/2020	11:50			G	1 ft	SD	Soil-Sub	Lead, 6010D	1	sample hold	0601
3390-A1-1.1-1.5		Sample	7/10/2020	11:51			G	1.5 ft	SD	Soil-Sub		1	sample hold	0602
3390-A2-0.5-1		Sample	7/10/2020	13:04			G	1 ft	SD	Soil-Sub		1	sample hold	0603
3390-A2-1.1-1.5		Sample	7/10/2020	13:04			G	1.5 ft	SD	Soil-Sub		1	sample hold	0604
3390-A3-0.5-1		Sample	7/10/2020	13:16			G	1 ft	SD	Soil-Sub		1	sample hold	0605
3390-A3-1.1-1.5		Sample	7/10/2020	13:19			G	1.5 ft	SD	Soil-Sub		1	sample hold	0606
3390-A4-0.5-1		Sample	7/10/2020	13:34			G	1 ft	SD	Soil-Sub		1	sample hold	0607
3390-A4-1.1-1.5		Sample	7/10/2020	13:34			G	1.5 ft	SD	Soil-Sub		1	sample hold	0608
3390-A5-0.5-1		Sample	7/10/2020	13:45			G	1 ft	SD	Soil-Sub		1	sample hold	0609
3390-A5-1.1-1.5		Sample	7/10/2020	13:46			G	1.5 ft	SD	Soil-Sub		1	sample hold	0610
Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St, Bloomington, MN 55431 Phone#: 952-240-8935 Courier Name:														
Receiving Comments:														
Relinquished By/Affiliation														
Date/Time: 7/24/20 16:37 Accepted By/Affiliation: Charles R. Pace Date/Time: 7/26/20 16:37 Accepted By/Affiliation: WCKK Pace														

12.7, 9.6, 12.2, 1.3

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 9 of 10	
Facility Code:*		Project Name:*				Turnaround Time: ~~24~~ 30		COC ID:		FOR LAB USE ONLY	
Project Manager:		Project Task Code:*				LABORATORY					
Potential Hazard?		If yes, add information to Sampler Comments field				EPA Lab ID:*		Minneapolis, MN 55414		Lab Work Order Sticker	
SAMPLE TYPES Sample-Composite QC-Field Blank Sample QC-Field Replicate Sample QC-Trip Blank Sample QC-Field Equipment Blank QC-Field Treatment System Sample		SAMPLING METHODS G-Grab Sample C-Composite, time-paced w/AS D-T-Discrete, time-paced w/AS SW-GAS-Gas Sampling Unknown-Unknown		LAB MATRICES DW-Drinking Water NW-Nonpotable Water SD-Soil Solid AS-Air		FIELD MATRICES Wt-Ground-Groundwater Wt-Surf-Surface Water Wt-Drink-Drinking Water QC-BLANK-Artificial Blank Water Leachate-Leachate Sample Air-Indoor-Indoor Air Gas-Soil-Soil Gas		ANALYSIS REQUESTED ANALYSIS* PRESERV* FF		Lab Sample No. #	
MN Location Identifier*		Sample Type*		Start Date* (mm/dd/yyyy)		End Date (mm/dd/yyyy)		Sampling Method*		Depth Start (ft) End (ft)	
3390-A6-0.5-1		Sample		7/20/2020 14:07		7/20/2020 14:07		G		0.5 1	
3390-A6-1-1.5		Sample		7/20/2020 14:07		7/20/2020 14:07		G		1 1.5	
3390-B1-0.5-1		Sample		7/20/2020 14:14		7/20/2020 14:14		G		0.5 1	
3390-B1-1-1.5		Sample		7/20/2020 14:15		7/20/2020 14:15		G		1 1.5	
3390-B2-0.5-1		Sample		7/20/2020 14:35		7/20/2020 14:35		G		0.5 1	
3390-B2-1-1.5		Sample		7/20/2020 14:36		7/20/2020 14:36		G		1 1.5	
3390-B3-0.5-1		Sample		7/20/2020 14:49		7/20/2020 14:49		G		0.5 1	
3390-B3-1-1.5		Sample		7/20/2020 14:50		7/20/2020 14:50		G		1 1.5	
3390-B4-0.5-1		Sample		7/20/2020 14:59		7/20/2020 14:59		G		0.5 1	
3390-B4-1-1.5		Sample		7/20/2020 15:08		7/20/2020 15:08		G		1 1.5	
Sampler's Name:*		Phone#:		Billing Organization:		Address:		Courier Name:		Tracking#:	
Eric Gabrielson		952-240-8935		Landmark Environmental, LLC		2042 W. 98th St., Bloomington, MN 55431		Landmark Environmental, LLC		20093.01	
Sampler's Signature:*		Accepted By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time		Accepted By/Affiliation	
[Signature]		Cheryl R/ Prc		7/20/20 16:37		Cheryl R/ Prc		7/20/20 16:37		Cheryl R/ Prc	
Sampler's Organization:		Accepted By/Affiliation		Date/Time		Accepted By/Affiliation		Date/Time		Accepted By/Affiliation	
Landmark Environmental, LLC		[Signature]		16:37		[Signature]		16:37		[Signature]	
Receiving Comments:		Relinquished By/Affiliation		Date/Time		Relinquished By/Affiliation		Date/Time		Relinquished By/Affiliation	
[Signature]		[Signature]		7/20/20 16:37		[Signature]		7/20/20 16:37		[Signature]	

Project Managers: Michael Ginsbach, Sherry Van Duen, Angela Fogarty (emails shown above)

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form

version 2017.0328

* indicates a required field

Work Order Number: **20093.01**

COC Type: Standard

Page: 10 of 10

FOR LAB USE ONLY

Turnaround Time: **Best 2 day**

COC ID: **LABORATORY**

Facility Code: * **MND006148092**

Project Name: * **3344 Highway 149 Adjacent Property, Eagan**

Project Manager: **michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N**

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: * **MN00064**

Lab Work Order Sticker

PROJECT/CLIENT INFO

Program Code (MDH Lab Only):

Project Task Code: * **PRJ08104**

If yes, add information to Sampler Comments field

SAMPLE DETAILS

SAMPLE TYPES	SAMPLING METHODS	LAB MATRICES		Depth	Start Time* (mm/dd/yyyy)	End Time (mm/dd/yyyy)	Sampling Method*	End Date (mm/dd/yyyy)	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	ANALYSIS REQUESTED	Lab Sample No.
		SW-GAS	SW-GAS														
Sample-Routine Sample	G-Grab sample	DW-Drinking Water	OT-Other														
QC-FB-Field Blank Sample	CT-Composite, time-paced w/AS	NW-Nonpotable Water	TS-Tissue														
QC-FR-Field Replicate Sample	CF-Composite w/AS	SD-Soil/Solid															
QC-TB-Trip Blank Sample	D-1-Discrete, time-paced w/AS	AR-Air															
QC-EB-Equipment Blank	D-2-Discrete, flow-paced w/AS																
Treated-Mid-Treatment system sample	SW-GAS-Gas Sampling																
Treated-Pee-Treatment system sample	Unknown-Unknown																

Billing Organization: Landmark Environmental, LLC

Address: 2042 W. 98th St, Bloomington, MN 55431

Phone#: 952-240-8935

Courier Name: Landmark Environmental, LLC

Tracking#:

Receiving Comments:

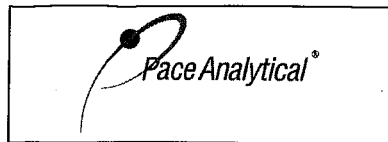
Relinquished By/Affiliation

Date/Time

Accepted By/Affiliation

Date/Time

12.2, 9.6, 12.2, 1.3



Document Name:
Sample Condition Upon Receipt (SCUR) - MN
Document No.:
ENV-FRM-MIN4-0150 Rev.00

Document Revised: 27Mar2020
Page 1 of 1
Pace Analytical Services -
Minneapolis

**Sample Condition
Upon Receipt**

Client Name:

MPCA

Project #:

WO# : 10525503

Courier:

☐ Fed Ex ☐ UPS ☐ USPS ☐ Client
☒ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions

Tracking Number:

Custody Seal on Cooler/Box Present?

☐ Yes ☒ No

Seals Intact?

☐ Yes ☒ No

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Packing Material:

☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____

Temp Blank? ☒ Yes ☐ No

Thermometer:

☐ T1(0461) ☐ T2(1336) ☐ T3(0459)
☐ T4(0254) ☒ T5(0489)

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No

Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank: 12.7, 9.6, 12.2, 1.3 °C

Average Corrected Temp

(no temp blank only): ☐ See Exceptions

Correction Factor: TME

Cooler Temp Corrected w/temp blank: 12.7, 9.6, 12.2, 1.3 °C

☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____)

Date/Initials of Person Examining Contents: MKZ 7-28-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes ☐ No	1.
Chain of Custody Relinquished?	☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☒ Yes ☐ No	6.
Sufficient Volume?	☒ Yes ☐ No	7.
Correct Containers Used?	☒ Yes ☐ No	8.
-Pace Containers Used?	☒ Yes ☐ No	9.
Containers Intact?	☒ Yes ☐ No	
Field Filtered Volume Received for Dissolved Tests?	☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other		
All containers needing acid/base preservation have been checked?	☐ Yes ☐ No ☒ N/A	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes ☐ No ☒ N/A	Chlorine? ☐ Yes ☐ No ☐ See Exception
		Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)?	☐ Yes ☐ No ☒ N/A	
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Field Data Required? ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review:

Anna Asp

Date:

7/21/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:

Chlo

Workorder #:[illegible][illegible]

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? ☐ Yes ☐ No	Initials
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	
								☐ Yes ☐ No	

Comments:

July 23, 2020

Ms. Sherry Van Duyn
Landmark Environmental
2042 West 98th Street
Bloomington, MN 55431

RE: Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525371

Dear Ms. Van Duyn:

Enclosed are the analytical results for sample(s) received by the laboratory between July 17, 2020 and July 20, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Annika Asp
annika.asp@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Angela Fogarty, Gopher Resource
Michael Ginsbach, Minnesota Pollution Control Agency



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Pace Analytical Services - Minneapolis MN

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525371001	3394-A1	Solid	07/17/20 14:22	07/17/20 15:41
10525371002	3394-A2	Solid	07/17/20 14:11	07/17/20 15:41
10525371003	3394-A3	Solid	07/17/20 13:39	07/17/20 15:41
10525371004	3394-A4	Solid	07/17/20 13:23	07/17/20 15:41
10525371005	3394-A/B1	Solid	07/17/20 13:10	07/17/20 15:41
10525371006	3394-A1-NW	Solid	07/17/20 14:16	07/17/20 15:41
10525371007	3394-A1-NE	Solid	07/17/20 14:17	07/17/20 15:41
10525371008	3394-A1-SW	Solid	07/17/20 14:21	07/17/20 15:41
10525371009	3394-A1-SE	Solid	07/17/20 14:19	07/17/20 15:41
10525371010	3394-A2-NW	Solid	07/17/20 14:00	07/17/20 15:41
10525371011	3394-A2-NE	Solid	07/17/20 14:59	07/17/20 15:41
10525371012	3394-A2-SW	Solid	07/17/20 14:06	07/17/20 15:41
10525371013	3394-A2-SE	Solid	07/17/20 14:08	07/17/20 15:41
10525371014	3394-A3-NW	Solid	07/17/20 13:32	07/17/20 15:41
10525371015	3394-A3-NE	Solid	07/17/20 13:33	07/17/20 15:41
10525371016	3394-A3-SW	Solid	07/17/20 13:35	07/17/20 15:41
10525371017	3394-A3-SE	Solid	07/17/20 13:38	07/17/20 15:41
10525371018	3394-A4-NW	Solid	07/17/20 13:17	07/17/20 15:41
10525371019	3394-A4-NE	Solid	07/17/20 13:19	07/17/20 15:41
10525371020	3394-A4-SW	Solid	07/17/20 13:22	07/17/20 15:41
10525371021	3394-A4-SE	Solid	07/17/20 13:21	07/17/20 15:41
10525371022	3394-A/B1-NW	Solid	07/17/20 13:04	07/17/20 15:41
10525371023	3394-A/B1-NE	Solid	07/17/20 13:05	07/17/20 15:41
10525371024	3394-A/B1-SW	Solid	07/17/20 13:07	07/17/20 15:41
10525371025	3394-A/B1-SE	Solid	07/17/20 13:09	07/17/20 15:41
10525371026	3394-A1-0.5-1	Solid	07/17/20 14:24	07/17/20 15:41
10525371027	3394-A1-1-1.5	Solid	07/17/20 14:27	07/17/20 15:41
10525371028	3394-A2-0.5-1	Solid	07/17/20 14:11	07/17/20 15:41
10525371029	3394-A2-1-1.5	Solid	07/17/20 14:12	07/17/20 15:41
10525371030	3394-A3-0.5-1	Solid	07/17/20 13:42	07/17/20 15:41
10525371031	3394-A3-1-1.5	Solid	07/17/20 13:43	07/17/20 15:41
10525371032	3394-A4-0.5-1	Solid	07/17/20 13:25	07/17/20 15:41
10525371033	3394-A4-1-1.5	Solid	07/17/20 13:27	07/17/20 15:41
10525371034	3394-A/B1-0.5-1	Solid	07/17/20 13:12	07/17/20 15:41
10525371035	3394-A/B1-1-1.5	Solid	07/17/20 13:14	07/17/20 15:41
10525371036	3394-B1	Solid	07/20/20 11:43	07/20/20 16:37
10525371037	3394-B2	Solid	07/20/20 12:00	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10525371038	3394-B3	Solid	07/20/20 12:10	07/20/20 16:37
10525371039	3394-B4	Solid	07/20/20 12:27	07/20/20 16:37
10525371040	M-10	Solid	07/20/20 11:47	07/20/20 16:37
10525371041	3394-B1-NW	Solid	07/20/20 11:39	07/20/20 16:37
10525371042	3394-B1-NE	Solid	07/20/20 11:40	07/20/20 16:37
10525371043	3394-B1-SW	Solid	07/20/20 11:42	07/20/20 16:37
10525371044	3394-B1-SE	Solid	07/20/20 11:43	07/20/20 16:37
10525371045	3394-B2-NW	Solid	07/20/20 11:54	07/20/20 16:37
10525371046	3394-B2-NE	Solid	07/20/20 11:55	07/20/20 16:37
10525371047	3394-B2-SW	Solid	07/20/20 11:59	07/20/20 16:37
10525371048	3394-B2-SE	Solid	07/20/20 11:57	07/20/20 16:37
10525371049	3394-B3-NW	Solid	07/20/20 12:05	07/20/20 16:37
10525371050	3394-B3-NE	Solid	07/20/20 12:08	07/20/20 16:37
10525371051	3394-B3-SW	Solid	07/20/20 12:10	07/20/20 16:37
10525371052	3394-B3-SE	Solid	07/20/20 12:08	07/20/20 16:37
10525371053	3394-B4-NW	Solid	07/20/20 12:17	07/20/20 16:37
10525371054	3394-B4-NE	Solid	07/20/20 12:22	07/20/20 16:37
10525371055	3394-B4-SW	Solid	07/20/20 12:26	07/20/20 16:37
10525371056	3394-B4-SE	Solid	07/20/20 12:24	07/20/20 16:37
10525371057	3394-B1-0.5-1	Solid	07/20/20 11:15	07/20/20 16:37
10525371058	3394-B1-1-1.5	Solid	07/20/20 11:15	07/20/20 16:37
10525371059	3394-B2-0.5-1	Solid	07/20/20 12:01	07/20/20 16:37
10525371060	3394-B2-1-1.5	Solid	07/20/20 12:02	07/20/20 16:37
10525371061	3394-B3-0.5-1	Solid	07/20/20 12:13	07/20/20 16:37
10525371062	3394-B3-1-1.5	Solid	07/20/20 12:14	07/20/20 16:37
10525371063	3394-B4-0.5-1	Solid	07/20/20 12:28	07/20/20 16:37
10525371064	3394-B4-1-1.5	Solid	07/20/20 12:29	07/20/20 16:37

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10525371001	3394-A1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371002	3394-A2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371003	3394-A3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371004	3394-A4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371005	3394-A/B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371036	3394-B1	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371037	3394-B2	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371038	3394-B3	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371039	3394-B4	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
10525371040	M-10	EPA 6010D	DCF	1	PASI-M
		ASTM D2974	JDL	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-A1 **Lab ID: 10525371001** Collected: 07/17/20 14:22 Received: 07/17/20 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	50.7	mg/kg	0.54	0.12	1	07/21/20 09:26	07/21/20 15:30	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.3	%	0.10	0.10	1		07/20/20 14:19		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-A2 **Lab ID: 10525371002** Collected: 07/17/20 14:11 Received: 07/17/20 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	51.4	mg/kg	0.53	0.12	1	07/21/20 09:26	07/21/20 15:39	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.2	%	0.10	0.10	1		07/20/20 14:19		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-A3 **Lab ID: 10525371003** Collected: 07/17/20 13:39 Received: 07/17/20 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	52.4	mg/kg	0.57	0.13	1	07/21/20 09:26	07/21/20 15:40	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	15.2	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-A4 **Lab ID: 10525371004** Collected: 07/17/20 13:23 Received: 07/17/20 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	30.8	mg/kg	0.55	0.13	1	07/21/20 09:26	07/21/20 15:42	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.2	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-A/B1 **Lab ID: 10525371005** Collected: 07/17/20 13:10 Received: 07/17/20 15:41 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	41.7	mg/kg	0.54	0.12	1	07/21/20 09:26	07/21/20 15:52	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.2	%	0.10	0.10	1		07/20/20 14:20		N2

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-B1 **Lab ID: 10525371036** Collected: 07/20/20 11:43 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	38.2	mg/kg	0.66	0.15	1	07/22/20 10:30	07/22/20 17:46	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	27.0	%	0.10	0.10	1		07/21/20 15:23		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-B2 **Lab ID: 10525371037** Collected: 07/20/20 12:00 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	69.4	mg/kg	0.55	0.12	1	07/22/20 10:30	07/22/20 17:57	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	14.3	%	0.10	0.10	1		07/21/20 15:23		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-B3 **Lab ID: 10525371038** Collected: 07/20/20 12:10 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	124	mg/kg	0.54	0.12	1	07/22/20 10:30	07/22/20 17:59	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.0	%	0.10	0.10	1		07/21/20 15:23		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: 3394-B4 **Lab ID: 10525371039** Collected: 07/20/20 12:27 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	161	mg/kg	0.55	0.12	1	07/22/20 10:30	07/22/20 18:01	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	12.4	%	0.10	0.10	1		07/21/20 15:24		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Sample: M-10 **Lab ID: 10525371040** Collected: 07/20/20 11:47 Received: 07/20/20 16:37 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis									
Lead	24.4	mg/kg	0.55	0.12	1	07/22/20 10:30	07/22/20 18:02	7439-92-1	
Dry Weight / %M by ASTM D2974 Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis									
Percent Moisture	13.9	%	0.10	0.10	1		07/21/20 15:24		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

QC Batch: 687989

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525371001, 10525371002, 10525371003, 10525371004, 10525371005

METHOD BLANK: 3679646

Matrix: Solid

Associated Lab Samples: 10525371001, 10525371002, 10525371003, 10525371004, 10525371005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.48	0.48	0.11	07/21/20 15:27	

LABORATORY CONTROL SAMPLE: 3679647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.7	47.7	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3679648 3679649

Parameter	Units	10525371001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	50.7	56.1	55.1	96.3	95.1	81	81	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

QC Batch: 688260

Analysis Method: EPA 6010D

QC Batch Method: EPA 3050B

Analysis Description: 6010D Solids

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525371036, 10525371037, 10525371038, 10525371039, 10525371040

METHOD BLANK: 3681509

Matrix: Solid

Associated Lab Samples: 10525371036, 10525371037, 10525371038, 10525371039, 10525371040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	mg/kg	<0.47	0.47	0.11	07/22/20 17:42	

LABORATORY CONTROL SAMPLE: 3681510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	46.3	46.6	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3681511 3681512

Parameter	Units	10525371036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	38.2	62.9	65.9	97.2	104	94	100	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

QC Batch:	687935	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525371001, 10525371002, 10525371003, 10525371004, 10525371005

SAMPLE DUPLICATE: 3679162

Parameter	Units	10525371001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	13.7	4	30	N2

SAMPLE DUPLICATE: 3679163

Parameter	Units	10524408006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	39.4	39.2	0	30	N2

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QUALITY CONTROL DATA

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

QC Batch:	688157	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight / %M by ASTM D2974
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10525371036, 10525371037, 10525371038, 10525371039, 10525371040

SAMPLE DUPLICATE: 3680268

Parameter	Units	10525371036 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	27.0	20.5	27	30	N2

SAMPLE DUPLICATE: 3680269

Parameter	Units	10525504002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.1	13.1	8	30	N2

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 3344 Hwy 149 Adjacent Property
Pace Project No.: 10525371

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10525371

[1] Samples were received outside of the recommended temperature range of 0-6 degrees Celsius. The samples were received from the field on ice.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 3344 Hwy 149 Adjacent Property

Pace Project No.: 10525371

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10525371001	3394-A1	EPA 3050B	687989	EPA 6010D	688183
10525371002	3394-A2	EPA 3050B	687989	EPA 6010D	688183
10525371003	3394-A3	EPA 3050B	687989	EPA 6010D	688183
10525371004	3394-A4	EPA 3050B	687989	EPA 6010D	688183
10525371005	3394-A/B1	EPA 3050B	687989	EPA 6010D	688183
10525371036	3394-B1	EPA 3050B	688260	EPA 6010D	688507
10525371037	3394-B2	EPA 3050B	688260	EPA 6010D	688507
10525371038	3394-B3	EPA 3050B	688260	EPA 6010D	688507
10525371039	3394-B4	EPA 3050B	688260	EPA 6010D	688507
10525371040	M-10	EPA 3050B	688260	EPA 6010D	688507
10525371001	3394-A1	ASTM D2974	687935		
10525371002	3394-A2	ASTM D2974	687935		
10525371003	3394-A3	ASTM D2974	687935		
10525371004	3394-A4	ASTM D2974	687935		
10525371005	3394-A/B1	ASTM D2974	687935		
10525371036	3394-B1	ASTM D2974	688157		
10525371037	3394-B2	ASTM D2974	688157		
10525371038	3394-B3	ASTM D2974	688157		
10525371039	3394-B4	ASTM D2974	688157		
10525371040	M-10	ASTM D2974	688157		

REPORT OF LABORATORY ANALYSIS

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10525371

Receiving Comments:	Relinquished By/Affiliation	Date/Time	Accepted By/Affiliation	Date/Time
		7/17/20 15:41	Charles D. Price	7-17-20 15:41
P Project Managers: Michael Giusiash, Sherry Van Duam, Angela Fogarty (emails shown above)				

Project Managers: Michael Ginsbach, Sherry Van Dunn, Angela Foxarty (emails shown above)

[illegible]

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form		Work Order Number:		COC Type: Standard		Page: 3 of 3	
		* Indicates a required field		Turnaround Time: <u>10-15 days</u>		COC ID:		FOR LAB USE ONLY	
PROJECT/CLIENT INFO		LABORATORY							
Facility Code: * MND006148092		Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis					
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Project Task Code: * PR08104		Address: 1700 Elm St SE					
Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com				Minneapolis, MN 55414					
Potential Hazard? N		If yes, add information to Sampler Comments field		EPA Lab ID: * MN000064				Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED	
Sample-Bottle Sample	G-Grab Sample	Composite, time-paced w/AS	DW-Drinking Water	BI-Biological Material	Wt-Grout-Groundwater	Wt-Surf-Surface Water	Wt-Surf-Surface Water		
QC-FRP-Field Replicate Sample	CT-Composite, time-paced w/AS	SW-Soil/Solid	NW-Nonpotable Water	OT-Other	Wt-Surf-Surface Water	QC-BLANK-Artificial Blank Water	QC-BLANK-Artificial Blank Water		
QC-FRP-Trip Blank Sample	D-Discrete, time-paced w/AS	AF-Air	SD-Soil/Solid	TS-Tissue	Leachate-Leachate Sample	Leachate-Leachate Sample	Leachate-Leachate Sample		
QC-FRP-Equipment Blank	D-Discrete, time-paced w/AS				Air-Indoor-Indoor Air	Air-Indoor-Indoor Air	Air-Indoor-Indoor Air		
Treated-Mid-Treatment system sample	SW-GAS-Gas Sampling				Gas-Soil-Soil Gas	Gas-Soil-Soil Gas	Gas-Soil-Soil Gas		
Treated-Post-Treatment system sample	Unknown-Unknown								
SAMPLE DETAILS		Depth		End Date		End Time		Sampler Comments	
MN Location Identifier*	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Sampling Method*	Units (m or ft)	Lab Matrix*	Field Matrix*
3394-A3-SW	Sample	7/17/2020	13:35			G	0.5 ft	SD	Soil-Surf
3394-A3-SE	Sample	7/17/2020	13:38			G	0.5 ft	SD	Soil-Surf
3394-A4-NW	Sample	7/17/2020	13:17			G	0.5 ft	SD	Soil-Surf
3394-A4-NE	Sample	7/17/2020	13:19			G	0.5 ft	SD	Soil-Surf
3394-A4-SW	Sample	7/17/2020	13:22			G	0.5 ft	SD	Soil-Surf
3394-A4-SE	Sample	7/17/2020	13:21			G	0.5 ft	SD	Soil-Surf
3394-A/B1-NW	Sample	7/17/2020	13:04			G	0.5 ft	SD	Soil-Surf
3394-A/B1-NE	Sample	7/17/2020	13:05			G	0.5 ft	SD	Soil-Surf
3394-A/B1-SW	Sample	7/17/2020	13:07			G	0.5 ft	SD	Soil-Surf
3394-A/B1-SE	Sample	7/17/2020	13:09			G	0.5 ft	SD	Soil-Surf
Sampler's Name: * Eric Gabrielson		Phone#: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acc#: 20093.01			
Sampler's Signature: *				Address: 2042 W. 98th St, Bloomington, MN 55431					
Sampler's Organization: Landmark Environmental, LLC				Courier Name:		Tracking#:			
Receiving Comments:				Date/Time		Accepted By/Affiliation		Date/Time	
Relinquished By/Affiliation				7/17/2020 15:41		Clausen D / Price		7-17-20 1541	
(Sampler)									
Project Managers: Michael Ginsbach, Sherry Van Dorn, Angela Fogarty (emails shown above)									

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 5 of 16	
Facility Code:*		Project Name:				Turnaround Time: ~~24~~ 48		COC ID:		FOR LAB USE ONLY	
MND006148092		3344 Highway 149 Adjacent Property, Eagan				LABORATORY					
Project Manager:		Project Task Code:*				Lab Name: Pace Analytical - Minneapolis					
michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com		PRJ08104				Address: 1700 Elm St SE					
Potential Hazard?		If yes, add information to Sampler Comments field				EPA Lab ID: MN00064				Lab Work Order Sticker	
N											
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		Lab Sample No. #	
Sample-Potential Sample	GC-Grav Sample	SW-Drinking Water	BI-Biological Material	Wtr-Ground=Groundwater	Wtr-Surf=Surface Water	Wtr-Surf=Surface Water	PRESEV.				
QC-Field Blank Sample	CF-Composite, time-paced w/AS	NW-Nonpotable Water	OT-Other	QC-BLANK=Artificial Blank Water	QC-BLANK=Artificial Blank Water	QC-BLANK=Artificial Blank Water	FF				
QC-Field Blank Sample	CF-Composite, time-paced w/AS	SD-Soil/Solid	TS-Tissue	Leachate=Leachate Sample	Leachate=Leachate Sample	Leachate=Leachate Sample					
QC-Field Blank Sample	D-1-Discrete, time-paced w/AS	AS-Air		Air-Indoor=Indoor Air	Air-Indoor=Indoor Air	Air-Indoor=Indoor Air					
QC-Field Blank Sample	D-1-Discrete, time-paced w/AS			Gas-Soil=Soil Gas	Gas-Soil=Soil Gas	Gas-Soil=Soil Gas					
QC-Field Blank Sample	SW-GAS=Gas Sampling										
QC-Field Blank Sample	Unknown=Unknown										
SAMPLE DETAILS		Depth		End Date		Sampling Method		Lab Matrix		Sampler Comments	
MN Location Identifier*		Start Time*		End Time		Method		Matrix		(filter volume, special handling, etc.)	
3394-B3-SW	Sample	7/1/2020	0	0.5	ft	G	SD	Soil-Surf	sample hold		1
3394-B3-SE	Sample	7/1/2020	0	0.5	ft	G	SD	Soil-Surf	sample hold		2
3394-B4-NW	Sample	7/1/2020	0	0.5	ft	G	SD	Soil-Surf	sample hold		3
3394-B4-NE	Sample	7/1/2020	0	0.5	ft	G	SD	Soil-Surf	sample hold		4
3394-B4-SW	Sample	7/1/2020	0	0.5	ft	G	SD	Soil-Surf	sample hold		5
3394-B4-SE	Sample	7/1/2020	0	0.5	ft	G	SD	Soil-Surf	sample hold		6
3394-A1-0.5-1	Sample	7/1/2020	0.5	1	ft	G	SD	Soil-Sub	sample hold		7
3394-A1-1-1.5	Sample	7/1/2020	1	1.5	ft	G	SD	Soil-Sub	sample hold		8
3394-A2-0.5-1	Sample	7/1/2020	0.5	1	ft	G	SD	Soil-Sub	sample hold		9
3394-A2-1-1.5	Sample	7/1/2020	1	1.5	ft	G	SD	Soil-Sub	sample hold		10

Temp 33.3
3.9
8.9 (avg, no blank)

Project Managers: Michael Ginsbach, Sherry Van Duren, Angela Fogarty (emails shown above)

Page 25 of 35

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 6 of 16	
Facility Code: * MND006148092		PROJECT/CLIENT INFO				Turnaround Time: <u>Real-time</u>		COC ID:		FOR LAB USE ONLY	
Project Name: * 3344 Highway 149 Adjacent Property, Eagan		Program Code (MDH Lab Only):				LABORATORY					
Project Manager: michael.ginsbach@state.mn.us, svanduyt@landmarkenv.com, angela.fogarty@gopherresource.com		Project Task Code: * PRJ08104				Lab Name: Pace Analytical - Minneapolis		Address: 1700 Elm St SE			
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: * MN00064		Minneapolis, MN 55414		Lab Work Order Sticker	
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED			
Sample-Routine Sample	G-Grab sample	CT-Composite, time-paced w/AS	DW-Drinking Water	OT-Other	WQ-Gravel-Crumbly Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
QC-FB-Field Blank Sample	CF-Composite, time-paced w/AS	D-T-Discrete, time-paced w/AS	NW-Nonpotable Water	TS-Tissue	WQ-Surf-Surface Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
QC-FB-Field Blank Sample	D-T-Discrete, time-paced w/AS	D-T-Discrete, time-paced w/AS	SD-Soil/Solid		WQ-Surf-Surface Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
QC-TB-Trip Blank Sample	SW-GAS-Gas Sampling	SW-GAS-Gas Sampling	AB-Air		WQ-Surf-Surface Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
QC-TB-Trip Blank Sample	Unknown-Unknown	Unknown-Unknown			WQ-Surf-Surface Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
Treated-Mid-Treatment system sample					WQ-Surf-Surface Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
Treated-Post-Treatment system sample					WQ-Surf-Surface Water	QC-Blank-Artificial Blank Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water	QC-Blank-Drinking Water
MN Location Identifier *		Sample Type *		Start Date (mm/dd/yyyy)		Start Time (hh:mm)		End Date (mm/dd/yyyy)		End Time (hh:mm)	
3394-A3-0.5-1	Sample	7/1/2020	13:42	0.5	1	ft	G	SD	Soil-Sub	sample hold	1
3349-A3-1-1.5	Sample	7/1/2020	13:43	1	1.5	ft	G	SD	Soil-Sub	sample hold	1
3394-A4-0.5-1	Sample	7/1/2020	13:45	0.5	1	ft	G	SD	Soil-Sub	sample hold	1
3349-A4-1-1.5	Sample	7/1/2020	13:47	0.5	1	ft	G	SD	Soil-Sub	sample hold	1
3394-A/B1-0.5-1	Sample	7/1/2020	13:48	0.5	1	ft	G	SD	Soil-Sub	sample hold	1
3349-A/B1-1-1.5	Sample	7/1/2020	13:49	1	1.5	ft	G	SD	Soil-Sub	sample hold	1
3394-B1-0.5-1	Sample	7/1/2020		0.5	1	ft	G	SD	Soil-Sub	sample hold	1
3349-B1-1-1.5	Sample	7/1/2020		1	1.5	ft	G	SD	Soil-Sub	sample hold	1
3394-B2-0.5-1	Sample	7/1/2020		0.5	1	ft	G	SD	Soil-Sub	sample hold	1
3349-B2-1-1.5	Sample	7/1/2020		1	1.5	ft	G	SD	Soil-Sub	sample hold	1
Sampler's Name: * Eric Gabrielson Sampler's Signature: * Sampler's Organization: * Landmark Environmental, LLC Billing Organization: Landmark Environmental, LLC Address: 2042 W. 98th St., Bloomington, MN 55431 Phone#: 952-240-8935 Acct#: 20093.01 Tracking#:											
Receiving Comments:											
Relinquished By/Affiliation:											
Date/Time: 7-17-20 Accepted By/Affiliation: Charles D. Price Date/Time: 7-17-20 Date/Time: 7-17-20 Date/Time: 7-17-20											

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: <u>MPCA</u>	Project #: WO# : 10525371
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeedDee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other: <u>box</u>	Temp Blank? ☐ Yes ☒ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>33.3, 3.9, 8.9</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>true</u> Cooler Temp Corrected w/temp blank: <u>33.3, 3.9, 8.9</u> °C	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: SN 7.17.20
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No
 If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	
Containers Intact? ☒ Yes ☐ No	9.
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	11. If no, write ID/ Date/Time on Container Below: <u>Don't see 3394-A-NW-Clif 7.17.20</u> See Exception ☐
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☒ No See Exception ☐
(HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Chlorine? ☐ Yes ☒ No pH Paper Lot# ☐
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. See Exception ☐
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14. Pace Trip Blank Lot # (if purchased):
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	

CLIENT NOTIFICATION/RESOLUTION		Field Data Required? ☐ Yes ☐ No
Person Contacted: _____	Date/Time: _____	
Comments/Resolution: _____		
Project Manager Review: <u>Anna Asp</u>		Date: <u>7/20/2020</u>

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: _____

10525371

Project Managers: Michael Ginsbach, Sherry Van Durn, Angela Fogarty (email shown above)

 Minnesota Pollution Control Agency	MPCA Chain-of-Custody Form revision 2017.03.28 * indicates a required field										Work Order Number:		COC Type: Standard		Page: 14 of 25																										
	PROJECT/CLIENT INFO										Turnaround Time: Rush 2 day		COC ID:		FOR LAB USE ONLY Lab Work Order Sticker																										
Facility Code:* MND006148092					Program Code (MDH Lab Only):					Lab Name: Pace Analytical - Minneapolis																															
Project Name:* 3344 Highway 149 Adjacent Property, Eagan					Project Task Code:* PRJ08104					Address: 1700 Elm St SE																															
Project Manager: michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com										Minneapolis, MN 55414																															
Potential Hazard? N					If yes, add information to Sampler Comments field					EPA Lab ID:* MN00064																															
SAMPLE DETAILS														ANALYSIS REQUESTED																											
SAMPLE TYPES Sample-Routine Sample QC-FB=Field Blank Sample QC-FR=Field Replicate Sample QC-TB=Trip Blank Sample QC-EB=Equipment Blank Treated-Mid-Treatment system sample Treated-Post-Treatment system sample				SAMPLING METHODS G=Grab sample CT=Composite, time-paced w/AS CF=Composite w/AS D-T=Discrete, time-paced w/AS D-F=Discrete, flow-paced w/AS SW-GAS=Gas Sampling Unknown=Unknown				LAB MATRICES DW=Drinking Water NW=Nonpotable Water SD=Soil/Solid AR=Air BL=Biological Material OT=Other TS=Tissue				FIELD MATRICES Wtr-Ground=Groundwater Wtr-Surf=Surface Water Wtr-Drink=Drinking Water QC-BLANK=Artificial Blank Water Leachate=Leachate Sample Air-Indoor=Indoor Air Gas-Soil=Soil Gas				PRESERV. FF																									
MN Location Identifier*		Field Name		Sample Type*		Start Date* (mm/dd/yyyy)		Start Time* (hh:mm)		Start		End		Units (m or ft.)		Sampling Method*		End Date (mm/dd/yyyy)		End Time (hh:mm)		Lab Matrix*		Field Matrix*		AIS		Sampler Comments (filter volume, special handling, etc.)		# of Cont		ANALYSIS*		Lead, 6010D		Lab Sample No.		#			
3394-B1-NW				Sample		7/20/2020		11:39		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		041		1	
3394-B1-NE				Sample		7/20/2020		11:40		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		042		2	
3394-B1-SW				Sample		7/20/2020		11:42		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		043		3	
3394-B1-SE				Sample		7/20/2020		11:42		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		044		4	
3394-B2-NW				Sample		7/20/2020		11:54		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		045		5	
3394-B2-NE				Sample		7/20/2020		11:55		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		046		6	
3394-B2-SW				Sample		7/20/2020		11:59		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		047		7	
3394-B2-SE				Sample		7/20/2020		12:05		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		048		8	
3394-B3-NW				Sample		7/20/2020		12:05		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		049		9	
3394-B3-NE				Sample		7/20/2020		12:06		0		0.5		ft		G								SD		Soil-Surf				sample hold						1		050		10	
Sampler's Name:* Eric Gabrielson					Phone#: 952-240-8935					Billing Organization: Landmark Environmental, LLC					Acct#: 20093.01																										
Sampler's Signature:*										Address: 2042 W. 98th St., Bloomington, MN 55431																															
Sampler's Organization: Landmark Environmental, LLC										Courier Name:					Tracking#:																										
Receiving Comments:																																									
Relinquished By/Affiliation										Date/Time		Accepted By/Affiliation					Date/Time																								
(Sampler) <i>[Signature]</i>										7/20/20 16:32		<i>Charles D / Pace</i>					7/20/20 15:37																								
Project Managers: Micheal Ginsbach, Sherry Van Duna, Angela Fogarty (emails shown above)																																									

Minnesota Pollution Control Agency		MPCA Chain-of-Custody Form				Work Order Number:		COC Type: Standard		Page: 36 of 45		
		* Indicates a required field				Turnaround Time: <u>Business Day</u>		COC ID:		FOR LAB USE ONLY		
		PROJECT/CLIENT INFO				LABORATORY						
Facility Code:*		MND006148092				Program Code (MDH Lab Only):		Lab Name: Pace Analytical - Minneapolis				
Project Name:*		3344 Highway 149 Adjacent Property, Eagan				Project Task Code: PRJ08104		Address: 1700 Elm St SE				
Project Manager:		michael.ginsbach@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com						Minneapolis, MN 55414				
Potential Hazard? N		If yes, add information to Sampler Comments field				EPA Lab ID: MN00064				Lab Work Order Sticker		
SAMPLE TYPES		SAMPLING METHODS		LAB MATRICES		FIELD MATRICES		ANALYSIS REQUESTED		Lab Sample #		
Sample-Routine Sample	G=Grab sample	Start Date* (mm/dd/yyyy)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Depth (m or ft)	Sampling Method*	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	ANALYSIS*	Lab Sample #	
QC-FB-Field Blank Sample	CT=Composite, time-paced w/AS									PRESERV.		
QC-FB-Field Replicate Sample	CT=Composite w/AS											
QC-TB-Trip Blank Sample	D-T=Discrete time-paced w/AS											
QC-EB-Equipment Blank	D-F=Discrete flow-paced w/AS											
Treated-Mid-Treatment system sample	SW-GAS=Gas Sampling											
Treated-Post-Treatment system sample	Unknown-Unknown											
MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	End Date (mm/dd/yyyy)	End Time (hh:mm)	Depth (m or ft)	Sampling Method*	Lab Matrix*	Field Matrix*	Sampler Comments (filter volume, special handling, etc.)	ANALYSIS*	Lab Sample #
3394-B3-SW		Sample	7/10/2020 11:10	7/10/2020 11:08		0.5 ft	G	SD	Soil-Surf	sample hold	1	651 1
3394-B3-SE		Sample	7/10/2020 11:10	7/10/2020 11:08		0.5 ft	G	SD	Soil-Surf	sample hold	1	652 2
3394-B4-NW		Sample	7/10/2020 11:17	7/10/2020 11:17		0.5 ft	G	SD	Soil-Surf	sample hold	1	653 3
3394-B4-NE		Sample	7/10/2020 11:22	7/10/2020 11:22		0.5 ft	G	SD	Soil-Surf	sample hold	1	654 4
3394-B4-SW		Sample	7/10/2020 11:36	7/10/2020 11:36		0.5 ft	G	SD	Soil-Surf	sample hold	1	655 5
3394-B4-SE		Sample	7/10/2020 11:41	7/10/2020 11:41		0.5 ft	G	SD	Soil-Surf	sample hold	1	656 6
		Sample	7/10/2020							sample hold	1	7
		Sample	7/10/2020							sample hold	1	8
		Sample	7/10/2020							sample hold	1	9
		Sample	7/10/2020							sample hold	1	10
Sampler's Name:*		Eric Gabrielson				Phone: 952-240-8935		Billing Organization: Landmark Environmental, LLC		Acct#: 20093.01		
Sampler's Signature:*								Address: 2042 W. 98th St, Bloomington, MN 55431				
Sampler's Organization:*		Landmark Environmental, LLC						Courier Name:		Tracking#:		
Receiving Comments:												
Relinquished By/Affiliation		Date/Time				Accepted By/Affiliation		Date/Time				
(Sampler)		7/10/20				Cheryl D. Pen		7/12/20 1:37				
Page		1032										

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form revision 2017.03.28

* indicates a required field

Work Order Number: **COC Type: Standard**

Turnaround Time: **COC ID:**

Page **44** of **25**

FOR LAB USE ONLY

Facility Code: * **MND006148092**

Project Name: * **3344 Highway 149 Adjacent Property, Eagan**

Project Manager: **michael.ginsback@state.mn.us, svanduy@landmarkenv.com, angela.fogarty@gopherresource.com**

Potential Hazard? **N** If yes, add information to Sampler Comments field

LABORATORY

Lab Name: **Pace Analytical - Minneapolis**

Address: **1700 Elm St SE**

Minneapolis, MN 55414

EPA Lab ID: * **MN00064**

SAMPLE TYPES	SAMPLING METHODS				LAB MATRICES				FIELD MATRICES				ANALYSIS REQUESTED	Lab Sample No.	#														
	G-Grab sample	CT-Composite, time-paced w/AS	CF-Composite w/AS	D-T-Discrete, time-paced w/AS	D-F-Discrete, flow-paced w/AS	SW-GAS-Gas Sampling	Unknown-Unknown	BI-Biological Material	OT-Other	TS-Tissue	W-Grab sample	DW-Drinking Water				NW-Nonpotable Water	SD-Soil/Solid	AR-Air	W-Grnd-Grndwater	W-Surf-Surface Water	W-Drnk-Drinking Water	QC-BLANK-Artificial Blank Water	Leachate-Leachate Sample	Air-Indoor-Indoor Air	Gas-Soil-Soil Gas				
Sample-Routine Sample																													
QC-FB-Field Blank Sample																													
QC-FR-Field Replicate Sample																													
QC-TB-Trip Blank Sample																													
QC-EB-Equipment Blank																													
Treated-Mid-Treatment system sample																													
Treated-Post-Treatment system sample																													

SAMPLE DETAILS

MN Location Identifier*	Field Name	Sample Type*	Start Date* (mm/dd/yyyy)	Start Time* (hh:mm)	End Date	End Time (hh:mm)	Sampling Method*	Units (m or ft.)	Depth	Lab Matrix*	Field Matrix*	AIS	Sampler Comments (filter volume, special handling, etc.)	# of Cont	ANALYSIS*	PRESERV.	FIELD MATRICES	ANALYSIS REQUESTED
		Sample	7/1/2020										sample hold					
		Sample	7/1/2020										sample hold					
		Sample	7/1/2020										sample hold					
		Sample	7/1/2020										sample hold					
		Sample	7/1/2020										sample hold					
		Sample	7/1/2020										sample hold					
		Sample	7/1/2020										sample hold					
3394-B1-0.5-1		Sample	7/20/2020	11:15			G	1	1.5 ft		SD	Soil-Sub	sample hold					
3349-B1-1-1.5		Sample	7/20/2020	11:15			G	0.5	1 ft		SD	Soil-Sub	sample hold					
3394-B2-0.5-1		Sample	7/20/2020	11:01			G	1	1.5 ft		SD	Soil-Sub	sample hold					
3349-B2-1-1.5		Sample	7/20/2020	11:02			G	0.5	1 ft		SD	Soil-Sub	sample hold					
		Sample	7/20/2020	11:02			G	1	1.5 ft		SD	Soil-Sub	sample hold					

Billing Organization: Landmark Environmental, LLC **Acc#: 20093.01**

Address: 2042 W. 98th St., Bloomington, MN 55431

Courier Name: **Tracking#:**

Receiving Comments:

Relinquished By/Affiliation **Date/Time** **Accepted By/Affiliation** **Date/Time**

(Sampler) **m npl** **7/20/20** **Charles D / Pace** **7/20/20 1637**

Page **2** of **35**

Project Managers: Michael Ginsbach, Sherry Van Duin, Angela Fogarty (emails shown above)

Minnesota Pollution Control Agency

MPCA Chain-of-Custody Form
* indicates a required field

Work Order Number: COC Type: Standard Page: 54 of 55

FOR LAB USE ONLY

Turnaround Time: COC ID:

Project/Client Info

Facility Code: * MND006148092

Project Name: * 3344 Highway 149 Adjacent Property, Eagan

Project Manager: michael.ginsbach@state.mn.us, svandyn@landmarkenv.com, angela.fogarty@gopherresource.com

Potential Hazard? N If yes, add information to Sampler Comments field

LABORATORY

Lab Name: Pace Analytical - Minneapolis

Address: 1700 Elm St SE

Minneapolis, MN 55414

EPA Lab ID: * MN00064

Lab Work Order Sticker

Sampler's Name: * Eric G. Griesbeck **Phone#:** 952-240-8935

Sampler's Signature: * [Signature] **Address:** 2042 W. 98th St., Bloomington, MN 55431

Sampler's Organization: Landmark Environmental, LLC **Courier Name:**

Receiving Comments:

Relinquished By/Affiliation: **Accepted By/Affiliation:** **Date/Time:** 7/24/20 16:37

Project Managers: Michael Ginsbach, Sherry Van Duhn, Angela Fogarty (emails shown above)

	Document Name: Sample Condition Upon Receipt (SCUR) - MN	Document Revised: 27Mar2020 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.00	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt	Client Name: MPCA	Project #: WO# : 10525371
	Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Speedee ☐ Commercial ☐ See Exceptions	PM: AKA Due Date: 07/22/20 CLIENT: LANDMARK ENV
Tracking Number: _____		

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No	Seals Intact? ☐ Yes ☒ No	Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____	Temp Blank? ☒ Yes ☐ No	
Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489)	Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted	

Did Samples Originate in West Virginia? ☐ Yes ☒ No	Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A
Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: <u>12.7, 9.6, 12.2, 1.3</u> °C	Average Corrected Temp (no temp blank only): ☐ See Exceptions ☐ 1 Container
Correction Factor: <u>TNE</u> Cooler Temp Corrected w/temp blank: <u>12.7, 9.6, 12.2, 1.3</u> °C	

USDA Regulated Soil: (☐ N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: MKZ 7-26-20

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present and Filled Out? ☒ Yes ☐ No	1.
Chain of Custody Relinquished? ☒ Yes ☐ No	2.
Sampler Name and/or Signature on COC? ☒ Yes ☐ No ☐ N/A	3.
Samples Arrived within Hold Time? ☒ Yes ☐ No	4.
Short Hold Time Analysis (<72 hr)? ☐ Yes ☒ No	5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested? ☒ Yes ☐ No	6.
Sufficient Volume? ☒ Yes ☐ No	7.
Correct Containers Used? ☒ Yes ☐ No	8.
-Pace Containers Used? ☒ Yes ☐ No	9.
Containers Intact? ☒ Yes ☐ No	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Field Filtered Volume Received for Dissolved Tests? ☐ Yes ☐ No ☒ N/A	11. If no, write ID/ Date/Time on Container Below: ☐ See Exception
Is sufficient information available to reconcile the samples to the COC? ☒ Yes ☐ No	
Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other	
All containers needing acid/base preservation have been checked? ☐ Yes ☐ No ☒ N/A	12. Sample # ☐ NaOH ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? ☐ Yes ☐ No ☒ N/A	Positive for Res. ☐ Yes ☐ No ☐ See Exception
(HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	Chlorine? ☐ No ☐ pH Paper Lot# ☐
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS ☐ Yes ☐ No ☒ N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? ☐ Yes ☐ No ☒ N/A	13. ☐ See Exception
Headspace in VOA Vials (greater than 6mm)? ☐ Yes ☐ No ☒ N/A	
Trip Blank Present? ☐ Yes ☐ No ☒ N/A	14.
Trip Blank Custody Seals Present? ☐ Yes ☐ No ☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION	Field Data Required? ☐ Yes ☐ No
Person Contacted: _____	Date/Time: _____
Comments/Resolution: _____	

Project Manager Review: Anna Asp Date: 7/21/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

