



2025 ANNUAL BIOSOLIDS NON-AGRICULTURAL SOURCE MATERIAL (NASM) SUMMARY REPORT

Including Biosolids Land Application Program and Biosolids Centralized Storage Facility (BCSF)

1. GENERAL INFORMATION

Oxford County (the County) prepares a report summarizing the Biosolids Land Application Program and performance of the Biosolids Off-site Dedicated Storage. The report details the latest quality testing results, quantity statistics and any non-compliance conditions that may have occurred. It is available for review by the end of March on the County website at <http://www.oxfordcounty.ca/waterwastewater> or by contacting the Public Works Department.

All efforts have been made to ensure the information presented in this report is accurate as possible.

If you have any questions or comments concerning the report, please contact the County at the address and phone number listed below or by email at wastewater@oxfordcounty.ca.

The BCSF Facility description is provided below:

Biosolids Off-site Dedicated Storage:	BCSF
Environmental Compliance Approval (ECA):	3816-76HRTS (April 3, 2020)
Reporting Period:	January 1, 2025 – December 31, 2025

BCSF Owner & Contact Information:

Oxford County Public Works Department - Wastewater Services
P.O. Box 1614
21 Reeve Street
Woodstock, ON N4S 7Y3
Telephone: 519-539-9800
Toll Free: 866-537-7778
Email: wastewater@oxfordcounty.ca

The County owns and operates nine wastewater treatment plants (WWTP). They are listed in the table below along with their predominant treatment system and method of biosolids treatment and handling.

Plant Name	Plant Process	Biosolids Processing and Handling
Woodstock WWTP	Conventional Activated Sludge	Anaerobic digestion, centrifuge dewatering, and transported to storage at BCSF prior to land application
Ingersoll WWTP	Conventional Activated Sludge	Anaerobic digestion, centrifuge dewatering, and transported to storage at BCSF prior to land application
Tillsonburg WWTP	Conventional Activated Sludge	Aerobic digestion, centrifuge dewatering, and transported to storage at BCSF prior to land application
Thamesford WWTP	Extended Aeration	Aerobic digestion, removed for further treatment at the Woodstock or Ingersoll WWTP
Drumbo WWTP	Membrane Bioreactor (MBR)	No digestion, primary sludge and thickened waste activated sludge removed for further treatment at the Woodstock WWTP
Tavistock WWTP	Lagoon System	Stored in lagoons on site until land applied usually between 15 to 25 years storage
Norwich WWTP	Lagoon System	Stored in lagoons on site until land applied usually between 15 to 25 years storage
Plattsville WWTP	Lagoon System	Stored in lagoons on site until land applied usually between 15 to 25 years storage
Mount Elgin WWTP	Black/Grey Water Recirculation Sand Filter and Common Drainage field	Homeowners have septic tanks maintained by the County requiring septage removal once every 3 to 5 years and transported to the Ingersoll or Woodstock WWTP

1.1 Biosolids Land Application Program Description

The biosolids land application program for the beneficial reuse as a nutrient was developed based on the County Biosolids Management Master Plan (BMMP). The five main elements of the BMMP include: more enforcement of the County Sewer Use By-law, dewatering of stabilized biosolids at each of the major WWTPs, transporting thickened sludge from smaller plants to the nearest major WWTP for processing, land application of all biosolids on farms having a non-agricultural source material (NASM) plan, and centralized storage of biosolids when the material cannot be land applied.

The BCSF houses dewatered biosolids for periods such as winter months when the dewatered product cannot be directly land applied. The storage building is designed to provide a minimum of 240 days storage. It is also designed with segregated storage bays so that should material be determined to be non-compliant, it can be removed and taken to the landfill and not mixed with compliant biosolids destined for land application.

The BCSF has sufficient room to house 7,000 m³ of material and was built in two phases. The pre-existing building (Phase 1) included 12 bays; and Phase 2 became operational in 2019, with the addition of four more bays. The BCSF has sufficient space to accommodate the 240-day storage requirements for all the WWTPs. The individual bays are slightly inclined with cement walls to allow for easy piling of the material. The incoming material is segregated by system and month and is deposited in the appropriate bay, after which Oxford County staff push the biosolids into higher piles at the back of the bay using a loader.

The enforcement of the County Sewer Use By-law was an important step in protecting the quality of the biosolids, and to this end, maintains an active monitoring and enforcement group with the goal of improving the quality and reducing the quantity of biosolids produced.

The following table summarizes the quantity of biosolids generated in 2025 by source. In 2025, there was 5,214 wet tonnes of dewatered biosolids land applied and 9,252 m³ of liquid biosolids land applied from a lagoon biosolids cleanout.

Facility	2025 Biosolids Land Applied	2025 Liquid Biosolids Generated	2025 Total Biosolids Generated	Biosolids Type	Destination
Woodstock WWTP	3,205 wet tonnes	--	4,362 wet tonnes	Anaerobic dewatered	BCSF & Land Application
Ingersoll WWTP	1,018 wet tonnes	57 m ³ transferred to Woodstock WWTP	1,399 wet tonnes	Anaerobic dewatered	BCSF & Land Application
Tillsonburg WWTP	991 wet tonnes	118 m ³ transferred to Ingersoll WWTP 570 m ³ transferred to Woodstock WWTP	1,608 wet tonnes	Aerobic dewatered	BCSF & Land Application
Thamesford WWTP	--	1,305 m ³ transferred to Ingersoll WWTP 1,311 m ³ transferred to Woodstock WWTP	--	Aerobic liquid	Ingersoll & Woodstock WWTP
Plattsville WWTP	9,252 m ³	--	--	Lagoon cleanout	Land Application

Facility	2025 Biosolids Land Applied	2025 Liquid Biosolids Generated	2025 Total Biosolids Generated	Biosolids Type	Destination
Drumbo MBR	--	2,645 m ³ transferred to Woodstock WWTP	--	Primary Sludge/Thickened Waste Activated Sludge	Ingersoll & Woodstock WWTP
Mount Elgin WWTP	--	268 m ³ transferred to Ingersoll WWTP 128 m ³ transferred to Woodstock WWTP	--	Tank maintenance-septage	Ingersoll & Woodstock WWTP

2. SUMMARY AND INTERPRETATION OF MONITORING DATA

2.1 Biosolids Quality Assurance and Control Measures

Sampling Procedure

Sampling is carried out as per the Environmental Compliance Approval (ECA).

Biosolids analysis is provided to the contractor and farmer for their use at the time of land application.

The biosolids are resampled at the time of land application for verification purposes.

Laboratory and Field Testing

The samples are analyzed by SGS Lakefield Research Ltd., a CAEAL certified lab. The results are entered into an Excel spreadsheet and reviewed for compliance with the regulations. The analytical results of the dewatered biosolids are also summarized and used for the calculation of monthly and yearly averages (Appendix ‘A’).

2.2 Biosolids Quality

The table below highlights the analytical results for metals versus the regulated maximum criteria. All sources of biosolids were compliant and were acceptable to be used as a nutrient for the land application program. More information can be found in Appendix ‘A’.

The results of the on-site verification sampling of biosolids prior to land application can be found in Appendix ‘A’. These samples provide a further check on the quality of the material. All 2025 samples complied with the Nutrient Management Act (NMA) criteria.

The Biosolids Contractor provides nutrient reports to individual farmers on each application to aid in the beneficial use of the product as a nutrient. The contractor’s table of NASM plans indicating spreading applications is included in Appendix ‘A’.

In summary, the County’s Biosolids Management program provided effective production, transport, storage, and eventual reuse as a nutrient via land application of all biosolids generated under the program. All operation and maintenance activities were performed by Oxford County staff in the WWTPs.

The transportation of the biosolids from the WWTPs to the storage building was done by the County’s Wastewater Services staff under ECA # A900939.

Comparison of Generated Biosolids to NMA Criteria for Metals in mg/kg Dry Solids

Parameter Metals (mg/kg dry solids)	Woodstock WWTP 2025 Annual Average	Ingersoll WWTP 2025 Annual Average	Tillsonburg WWTP 2025 Annual Average	Plattsville WWTP 2025 Annual Average	Regulatory Limit Maximum
Arsenic	5.4	4.9	4.7	2.9	170
Cadmium	1.3	0.8	0.7	0.8	34
Cobalt	3.6	3.7	2.1	4.5	340
Chromium	71	31	18	21	2,800
Copper	620	491	475	281	1,700
Mercury	1.1	0.4	0.6	0.2	11
Molybdenum	13.2	25.3	7.7	3.7	94
Nickel	76.6	47.8	52.5	13.6	420
Lead	28.4	15.0	13.3	10.9	1,100
Selenium	5.2	4.4	3.1	0.9	34
Zinc	1,379	1,863	684	556	4,200

The Biosolids land applied from all facilities were compliant with the NMA regulations governing NASM.

3. NON-COMPLIANCE AND COMPLAINTS

There were no non-compliance events during the year of operation, and no complaints were received in 2025.

3.1 Spills, Upsets and Abnormal Conditions

There were no spills, upsets, or abnormal events in 2025.

4. INSPECTION OF THE BCSF

The BCSF was cleaned and the annual in-house inspection by staff took place on June 20, 2025. A copy of the inspection is found in Appendix 'A.'

Waste Management Facility staff swept the building prior to inspection. Not all bays were completely empty.

The following is a list of items found during inspection and the actions taken:

Inspection Item	Action Taken
External Grounds	Vegetation growth will be cut later in the season
South siding (bays 13/15) has minor damage	No action required at this time
A steel crossmember in bay 14 is slightly bent	No action required at this time
Concrete floor damage in bays 13 and 15	To be repaired in 2026
Roll up doors are heavily worn	No action required at this time

5. SUMMARY

The BCSF provided effective winter storage for the County biosolids land application program and was in excellent overall condition. The BCSF complied with all Conditions of the ECA as well as the inspection and reporting requirements. No complaints were received about the operation of the facility in 2025.

APPENDIX 'A': Biosolids Report Additional Information



Annual Report

NASM Plan:	61617
Farmer:	Steve Veldman
Farm:	McCleod North Farm
Material Applied:	Woodstock
Date of Application:	April 24, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	9600	870	4	8730.00	874.00	605.00	32800.00	1325.00	24.68
Average (kg/tonne)	0.96	0.09	0.00	0.87	0.09	0.06	3.28	0.13	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	12.97	Total Volume Applied (tonne)	674.56	0.56	52.0	tonne/Ha	Dry Ton /ac	5.70
Total Area: ac	32.06				21.04	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	45.40	4.55	3.15	170.59	6.89	0.13
LBS/ Acre	40.51	4.06	2.81	152.22	6.15	0.11

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	12.15
Year 2	10%	4.05
Year 3	5%	2.03

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	60.89
Year 2	40%	60.89

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.15	1.27	0.00	0.03	0.15	0.05	0.01	2.79
LBS/ Arce	0.06	0.01	0.04	0.84	6.93	0.01	0.15	0.83	0.30	0.05	15.18
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62258
Farmer:	Warren Shelton
Farm:	Father's Farm
Material Applied:	Woodstock
Date of Application:	April 28, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	9600	870	4	8730.00	874.00	605.00	32800.00	1325.00	24.68
Average (kg/tonne)	0.96	0.09	0.00	0.87	0.09	0.06	3.28	0.13	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	25.05	Total Volume Applied (tonne)	1202.59	Application Rate	48.0	tonne/Ha	Dry Ton /ac	5.30
Total Area: ac	61.91				19.42	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	41.91	4.20	2.90	157.46	6.36	0.12
LBS/ Acre	37.40	3.74	2.59	140.51	5.68	0.11

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	11.22
Year 2	10%	3.74
Year 3	5%	1.87

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	56.20
Year 2	40%	56.20

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.10	0.00	0.01	0.14	1.18	0.00	0.02	0.14	0.05	0.01	2.57
LBS/ Arce	0.54	0.01	0.04	0.78	6.40	0.01	0.14	0.76	0.28	0.05	14.02
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62470
Farmer:	Greg Canfield
Farm:	Mattson Schmidt Farm
Material Applied:	Tillsonburg
Date of Application:	May 16, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	11900	671	41	11229.00	712.00	425.71	30600.00	582.86	22.66
Average (kg/tonne)	1.19	0.07	0.00	1.12	0.07	0.04	3.06	0.06	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	4.61	Total Volume Applied (tonne)	221.53	Application Rate	48.1	tonne/Ha	Dry Ton /ac	4.90
Total Area: ac	11.39				19.47	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	54.01	3.42	2.05	147.19	2.80	0.11
LBS/ Acre	48.20	3.06	1.83	131.34	2.50	0.10

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	14.46
Year 2	10%	4.82
Year 3	5%	2.41

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	52.53
Year 2	40%	52.53

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.00	0.03	0.76	0.00	0.01	0.10	0.02	0.01	1.04
LBS/ Arce	0.05	0.01	0.02	0.17	4.14	0.01	0.07	0.53	0.12	0.03	5.67
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62469
Farmer:	Greg Canfield
Farm:	Derudder Chesney
Material Applied:	Woodstock
Date of Application:	May 21, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	9900	989	3	8911.00	992.00	610.00	32300.00	1311.11	25.01
Average (kg/tonne)	0.99	0.10	0.00	0.89	0.10	0.06	3.23	0.13	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	3.17	Total Volume Applied (tonne)	134.48	Application Rate	42.4	tonne/Ha	Dry Ton /ac	4.70
Total Area: ac	7.83				17.16	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	37.80	4.21	2.59	137.03	5.56	0.11
LBS/ Acre	33.73	3.76	2.31	122.27	4.96	0.09

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	10.12
Year 2	10%	3.37
Year 3	5%	1.69

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	48.91
Year 2	40%	48.91

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.12	1.06	0.00	0.02	0.12	0.05	0.01	2.28
LBS/ Arce	0.05	0.01	0.03	0.66	5.78	0.01	0.12	0.67	0.26	0.05	12.41
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62469
Farmer:	Greg Canfield
Farm:	Derudder Chesney Farm
Material Applied:	Tillsonburg
Date of Application:	May 21, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	11900	671	41	11229.00	712.00	425.71	30600.00	582.86	22.66
Average (kg/tonne)	1.19	0.07	0.00	1.12	0.07	0.04	3.06	0.06	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	8.55	Total Volume Applied (tonne)	421.44	Application Rate	49.3	tonne/Ha	Dry Ton /ac	5.00
Total Area: ac	21.12				19.95	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	55.35	3.51	2.10	150.82	2.87	0.11
LBS/ Acre	49.38	3.13	1.87	134.58	2.56	0.10

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	14.82
Year 2	10%	4.94
Year 3	5%	2.47

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	53.83
Year 2	40%	53.83

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.00	0.03	0.78	0.00	0.01	0.10	0.02	0.01	1.07
LBS/ Arce	0.05	0.01	0.02	0.18	4.25	0.01	0.07	0.54	0.12	0.03	5.81
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62469
Farmer:	Greg Canfield
Farm:	Derudder Chesney Farm
Material Applied:	Ingersoll
Date of Application:	May 21, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg. Average (kg/tonne)	10100	1186	73	8914.00	1259.00	465.71	32100.00	1985.71	21.83
	1.01	0.12	0.01	0.89	0.13	0.05	3.21	0.20	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	14.28	Total Volume Applied (tonne)	696.74	Application Rate	48.8	tonne/Ha	Dry Ton /ac	4.70
Total Area: ac	35.29				19.75	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	43.49	6.14	2.27	156.62	9.69	0.11
LBS/ Acre	38.81	5.48	2.03	139.75	8.65	0.10

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	11.64
Year 2	10%	3.88
Year 3	5%	1.94

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	55.90
Year 2	40%	55.90

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.05	0.81	0.00	0.05	0.08	0.02	0.01	3.47
LBS/ Arce	0.05	0.01	0.03	0.25	4.43	0.00	0.26	0.44	0.12	0.04	18.89
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62439
Farmer:	George Klosler
Farm:	Clark Farm
Material Applied:	Woodstock
Date of Application:	August 27, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	10400	1120	3	9280.00	1123.00	604.00	30900.00	1310.00	26.09
Average (kg/tonne)	1.04	0.11	0.00	0.93	0.11	0.06	3.09	0.13	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	28.80	Total Volume Applied (tonne)	1154.97	Application Rate	40.1	tonne/Ha	Dry Ton /ac	4.70
Total Area: ac	71.17				16.23	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	37.22	4.50	2.42	123.92	5.25	0.10
LBS/ Acre	33.21	4.02	2.16	110.57	4.69	0.09

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	9.96
Year 2	10%	3.32
Year 3	5%	1.66

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	44.23
Year 2	40%	44.23

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.11	1.04	0.00	0.02	0.12	0.05	0.01	2.25
LBS/ Arce	0.05	0.01	0.03	0.60	5.64	0.01	0.11	0.66	0.27	0.05	12.24
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

Metals Not Beneficial for Agriculture

Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62439
Farmer:	George Klosler
Farm:	Clark Farm
Material Applied:	Ingersoll
Date of Application:	August 27, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	9700	1300	84	8400.00	1384.00	492.00	34200.00	1720.00	22.09
Average (kg/tonne)	0.97	0.13	0.01	0.84	0.14	0.05	3.42	0.17	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	3.19	Total Volume Applied (tonne)	136.47	Application Rate	42.8	tonne/Ha	Dry Ton /ac	4.20
Total Area: ac	7.88				17.32	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	35.93	5.92	2.10	146.30	7.36	0.09
LBS/ Acre	32.06	5.28	1.88	130.54	6.57	0.08

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	9.62
Year 2	10%	3.21
Year 3	5%	1.60

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	52.22
Year 2	40%	52.22

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.05	0.76	0.00	0.03	0.06	0.02	0.01	2.67
LBS/ Arce	0.04	0.01	0.03	0.25	4.15	0.00	0.18	0.33	0.13	0.04	14.52
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62836
Farmer:	Darin Baigent
Farm:	3 Corners Farm
Material Applied:	Tillsonburg
Date of Application:	September 2, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	12800	1933	3	10867.00	1936.00	477.78	36400.00	682.22	21.37
Average (kg/tonne)	1.28	0.19	0.00	1.09	0.19	0.05	3.64	0.07	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	8.36	Total Volume Applied (tonne)	347.82	Application Rate	41.6	tonne/Ha	Dry Ton /ac	4.00
Total Area: ac	20.66				16.83	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	45.19	8.05	1.99	151.36	2.84	0.09
LBS/ Acre	40.32	7.18	1.77	135.06	2.53	0.08

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	12.10
Year 2	10%	4.03
Year 3	5%	2.02

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	54.03
Year 2	40%	54.03

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.00	0.03	0.70	0.00	0.01	0.08	0.02	0.00	0.99
LBS/ Arce	0.04	0.01	0.02	0.15	3.79	0.01	0.05	0.43	0.11	0.03	5.42
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	62836
Farmer:	Darin Baigent
Farm:	3 Corners Farm
Material Applied:	Ingersoll
Date of Application:	September 2, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	9600	1229	80	8371.00	1309.00	491.00	33700.00	1710.00	22.07
Average (kg/tonne)	0.96	0.12	0.01	0.84	0.13	0.05	3.37	0.17	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	4.24	Total Volume Applied (tonne)	184.49	Application Rate	43.5	tonne/Ha	Dry Ton /ac	4.30
Total Area: ac	10.48				17.60	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	36.40	5.69	2.13	146.53	7.44	0.10
LBS/ Acre	32.48	5.08	1.91	130.75	6.63	0.09

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	9.74
Year 2	10%	3.25
Year 3	5%	1.62

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	52.30
Year 2	40%	52.30

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.05	0.77	0.00	0.03	0.06	0.02	0.01	2.69
LBS/ Arce	0.04	0.01	0.03	0.26	4.21	0.00	0.18	0.34	0.13	0.04	14.66
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture



Annual Report

NASM Plan:	60631
Farmer:	Warren Shelton
Farm:	Cromby Loosemore Farm
Material Applied:	Woodstock
Date of Application:	November 7, 2025

Nutrient Concentration (ppm - dry basis)

Date Sampled	TKN	Ammonium	Nitrate	Organic N (TKN - Ammonium)	Plant Avail N (Ammonium + Nitrate)	Copper	Phosphorus	Zinc	Solids
4 Month Avg.	10300	1025	3	9275.00	1028.00	648.75	31800.00	1400.00	26.31
Average (kg/tonne)	1.03	0.10	0.00	0.93	0.10	0.06	3.18	0.14	0.00

** Sample results from SGS Lakefield Research Limited

Total Area: ha	0.84	Total Volume Applied (tonne)	39.19	Application Rate	46.6	tonne/Ha	Dry Ton /ac	5.50
Total Area: ac	2.08				18.86	tonne/ac		

NUTRIENT VALUE

Nutrient	Organic N	Plant Aval N	Copper	Phosphorus	Zinc	Total Solids
Kg/Ha	43.16	4.78	3.02	147.99	6.52	0.12
LBS/ Acre	38.52	4.27	2.69	132.05	5.81	0.11

ORGANIC N (TKN) RELEASE

YEAR	% N Release	LBS N/ Acre
Year 1	30%	11.55
Year 2	10%	3.85
Year 3	5%	1.93

PHOSPHORUS AVAILABILITY

YEAR	% P Release	LBS P/Acre
Year 1	40%	52.82
Year 2	40%	52.82

Application Rate of Metals

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
Kg/ Ha	0.01	0.00	0.01	0.14	1.30	0.00	0.03	0.16	0.06	0.01	2.81
LBS/ Arce	0.06	0.02	0.04	0.79	7.10	0.02	0.15	0.87	0.31	0.06	15.33
Maximum	1.1	0.27	2.7	23.30	13.6	0.09	0.8	3.56	9	0.27	33

 Metals Not Beneficial for Agriculture

 Metals Beneficial for Agriculture

NASM post application report (Harrison Farms-Bob Harrison, August 1, 2025 - December 31, 2029 , Submission ID: 62786)

General information

Any false or misleading information included in this document may result in non-compliance with any approvals or permits granted, and prosecution in accordance to the provisions of the Nutrient Management Act, 2002.

The evaluation performed when generating this Post Application Report assumes that all sources of nutrients, including fertilizers, intended for land application on this field have been included when preparing the NASM plan.

Preparer information

Preparer

Jeff Bannerman
(NASM 21584)

Contact details

520 Inkerman Street E
Listowel , ON , Canada N4W 2N7
519-292-0496
jbannerman4@wightman.ca

Agricultural operation information

Operator contact information

Bob Harrison
866829 Township
Rd 10
Blandford-Blenheim,
ON
N0J 1B0
519-537-9801
rharrison4020@gmail.com

Owner is the same as the operator

Yes

Legal farm name

Harrison Farms
(1912) Inc

Material source summary (NASM)

Plattsville Lagoons 1 & 2

Storage

Form
Liquid

Notes

2 smaller lagoons

Metals content

CM2

Pathogen content

CP2

Odour category

OC2

Material components

NASM component (Plattsville Sewage Biosolids)

Type

11b. Liquid aerobically digested sewage biosolids (Category: 3, Pathogen: CP2, Odour: OC2)

Contact information

Oxford County
906885 Township Rd 12
Plattsville , ON
Canada N0J 1B0
519-532-7948
jkreitzer@oxfordcounty.ca

Material samples

Sample date

Aug 13, 2025

Metals content

CM2

Pathogen content

CP2

Beneficial use

This material shows beneficial use

Lab analysis results (wet basis)

Nutrient type	Value	Category
Dry Matter (DM)	2.193 %	-
Nitrogen (Total Kjeldhal Nitrogen)	0.002 %	-
Ammonia + Ammonium Nitrogen	20 ppm	-
Nitrate + Nitrite Nitrogen	< 1 ppm	-
Phosphorus (P)	0.0198 %	-
Potassium (K)	0.0075 %	-
Arsenic (As)	0.07 ppm	CM1
Cadmium (Cd)	0.03 ppm	CM1
Cobalt (Co)	0.12 ppm	CM1
Chromium (Cr)	0.54 ppm	CM1
Copper (Cu)	10.58 ppm	CM2
Mercury (Hg)	0.0059 ppm	CM1
Molybdenum (Mo)	0.09 ppm	CM1
Nickel (Ni)	0.4 ppm	CM1
Lead (Pb)	0.46 ppm	CM1
Selenium (Se)	0.11 ppm	CM2
Zinc (Zn)	21.1075 ppm	CM2
E. coli	< 100000 CFU	CP2

Farm unit summary

Jame's Farm

This farm

- Receives commercial fertilizer
- Receives NASM

Status

Owned

Farm location

County of Oxford , Township of Blandford-Blenheim

- BLENHEIM, Concession: 9 , Lot: 15

Roll numbers

- 324502007001500

911 address (if available)

866876 Township Rd 10

Field summary - Jame's Farm, Section A-Lagoon 1,2

<p>Area for material 49 ac</p>	<p>Field contains or is adjacent to surface water Yes</p>	<p>Maximum slope 9%</p>
<p>Slope near surface water 9%</p>	<p>Tile drainage system Random</p>	<p>Soil samples Soil parameters conform with S.98.0.12 & 98.0.17</p>

Field inputs

	Agronomic (lb/ac)			Crop removal (lb/ac)		
	N	(P ₂ O ₅)	(K ₂ O)	N	(P ₂ O ₅)	(K ₂ O)
<p>Material App Application date: Aug 18, 2025 Plattsville Lagoons 1 & 2 @ 10788.2 gal/ac Placed with planter / Injected Total amount applied: 528622 gal</p>	1	20	9	1	39	9
<p>Cover Crop, oats @ 0.98 ton/ac Sep 1, 2025 - Oct 31, 2026</p>	0	0	0	-33	-11	-40
<p>Fertilizer App (blend) Application date: Sep 1, 2025</p>	46	0	60	46	0	60
<p>Corn, grain @ 200 bu/ac May 1, 2026 - Oct 24, 2026</p>	-202	0	-27	-165	-84	-58
<p>Fertilizer App (46-0-0 urea @ 326 lb/ac) Application date: May 1, 2026</p>	147	0	0	147	0	0
<p>Corn Starter (5-26-30 @ 100 lb/ac) Application date: May 1, 2026</p>	5	26	30	5	26	30
<p>Nutrient balance Jul 31, 2025 - Oct 30, 2026</p>	-3 	46 	72 	1	-29	1
<p>Multi-year balance Sep 1, 2024 - Oct 30, 2026</p>	-113	46	54	-196	-100	-164

NASM application summary

Nitrogen

NASM applied N

1 lb/ac (19 % limit for Fall 2025 - Fall 2026)

Phosphate

P2O5 crop removal balance
-29 lb/ac (Fall 2025 - Fall 2026)

Previous 5-year P2O5 crop removal balance
-100 lb/ac (-29 % of 5 year limit)

Total solids

This application
1.2 ton/ac

Total applied over regulated time period
1.2 ton/ac (12 % of 5 year limit)

Regulated metals

Regulated metals	Soil test	This application	Total applied	5 year limit
Arsenic (As)	1 <u>ppm</u>	0.008 <u>lb/ac</u>	0.008 <u>lb/ac</u>	1 %
Cadmium (Cd)	1 <u>ppm</u>	0.003 <u>lb/ac</u>	0.003 <u>lb/ac</u>	1 %
Cobalt (Co)	5.82 <u>ppm</u>	0.013 <u>lb/ac</u>	0.013 <u>lb/ac</u>	1 %
Chromium (Cr)	21.94 <u>ppm</u>	0.058 <u>lb/ac</u>	0.058 <u>lb/ac</u>	0 %
Copper (Cu)	10.42 <u>ppm</u>	1.144 <u>lb/ac</u>	1.144 <u>lb/ac</u>	9 %
Mercury (Hg)	0.1 <u>ppm</u>	0.001 <u>lb/ac</u>	0.001 <u>lb/ac</u>	1 %
Molybdenum (Mo)	1.2 <u>ppm</u>	0.01 <u>lb/ac</u>	0.01 <u>lb/ac</u>	1 %
Nickel (Ni)	8.55 <u>ppm</u>	0.043 <u>lb/ac</u>	0.043 <u>lb/ac</u>	1 %
Lead (Pb)	10 <u>ppm</u>	0.05 <u>lb/ac</u>	0.05 <u>lb/ac</u>	1 %
Selenium (Se)	1 <u>ppm</u>	0.012 <u>lb/ac</u>	0.012 <u>lb/ac</u>	5 %
Zinc (Zn)	53.73 <u>ppm</u>	2.282 <u>lb/ac</u>	2.282 <u>lb/ac</u>	8 %

NASM minimum setback summary

Wells

Municipal well
100 m

Drilled well
15 m

Other well
90 m

Surface water

No vegetated buffer
20 m

Odour

Single dwelling
25 m

Residential area, commercial, community
or institutional
50 m

NASM waiting periods

Pre-harvest waiting period after application

Crop	Waiting period
Commercial sod	12 months
Hay and haylage	3 weeks
Tree fruits and grapes	3 months
Small fruits	15 months
Vegetables	12 months
Tobacco	12 months

Pre-grazing waiting period after application

Livestock type	Waiting period
Horses, beef or dairy cattle	2 months
Swine, sheep or goats	6 months

NASM depth of unsaturated soil

Depth	Restrictions
< 30 cm	No application is permitted
30 - 60 cm	No application is permitted
60 - 90 cm	No application is permitted
> 90 cm	No restrictions

Flag summary



Crop Yield (Section A-Lagoon 1,2)

Crop Yield: 200 bu/ac (Maximum: 188.4 bu/ac)

Post Application Report Attachments

Material Sample Analysis Results

Attach and clearly label the NASM analytical test results. Each NASM sample must be collected, transported and analyzed in accordance with the Sampling and Analysis Protocol. Provide a sample key if required. The number of sample results must comply with "Part IX: Sampling, Analysis and Quality Standards and Land Application Rates" in Ontario Regulation 267/03.

In the current release of AgriSuite, the user must average sample results outside of AgriSuite and enter in the average value into AgriSuite. Although not required, it is recommended that a summary table of NASM results also be attached which lists out the individual sample results by date and includes the calculated averages used in AgriSuite. This summary table will help to speed up the review of the NASM plan as all calculations must be checked.

Soil Sample Results

If new or additional soil analysis has been carried out for the NASM application area since the approval of the NASM plan or the registration of the operation, include those analyses with this document. Each soil sample must be collected, transported and analyzed in accordance with the Sampling and Analysis Protocol.

Updated field sketch

Post application sketch(es) are based on actual land application activities and conditions that existed at the time of land application. The sketch(es) must address the presence or absence of the following components, and include the separation distances put in place to protect sensitive features:

- field identifier, field boundaries and sections within the field
- field tile drains and the location of the tile inlets and tile outlets
- areas where the soil depth is less than 30 cm and rock outcrops
- areas subject to ponding
- location of dwellings, residential areas and areas of commercial, community or institutional land uses
- location of any municipal wells within 100 metres of the NASM application area
- location of all other known wells within 90 metres of the NASM application area
- location of all surface water within 150 metres of the NASM application area
- maximum sustained slopes within 150 metres of surface water

List of Attachments:

- Required Sampling and Analysis results
- Updated field sketch

Material Analysis **Liquid Sludge - Lagoons**
Site: Plattsville Lagoon **Wet basis-Except E.Coli**

Analyte	Unit	Last 8								Average	AgriSuite Units	Average in AgriSuite Units	Notes
		sample 1 13-Aug-25	sample 2 13-Aug-25	sample 3 13-Aug-25	sample 4 13-Aug-25	sample 5 13-Aug-25	sample 6 13-Aug-25	sample 7 13-Aug-25	sample 8 13-Aug-25				
Total Solids	%	2.47	2.42	2.1	1.43	1.85	2.23	2.17	2.87	2.19	DM %	2.193	
Total Kjeldahl Nitrogen	ug/g	15.5	15.2	14.8	31.2	32.6	15.5	15.2	36.5	22.06	%	0.002	
Ammonia N-NH3	ug/g	15.5	13.45	14.77	29.66	31.91	15.48	1.36	36.54	19.83	ppm	19.834	
Nitrate + Nitrite	ug/g	1	1	1	1	1	1	1	1	1.00	ppm	1.000	
Total Phosphorus P	mg/l	275.22	263.14	225.96	63.86	97.67	240.17	237.63	181.57	198.15	%	0.0198	
Total Potassium K	mg/l	88.71	87.7	77.98	45.47	55.47	81.76	77.97	87.7	75.35	%	0.0075	
Arsenic As	mg/l	0.08	0.07	0.10	0.02	0.04	0.08	0.08	0.09	0.07	ppm	0.07	
Cadmium Cd	mg/l	0.037	0.035	0.035	0.013	0.018	0.033	0.031	0.039	0.03	ppm	0.03	
Cobalt Co	mg/l	0.11	0.13	0.10	0.07	0.10	0.12	0.11	0.19	0.12	ppm	0.12	Wet Basis
Chromium Cr	mg/l	0.64	0.67	0.55	0.23	0.33	0.62	0.57	0.67	0.54	ppm	0.54	
Copper Cu	mg/l	13.92	13.75	11.61	3.76	6.09	12.26	12.05	11.23	10.58	ppm	10.58	
Mercury Hg	mg/l	0.0170	0.0080	0.0050	0.0010	0.0020	0.0050	0.0050	0.0040	0.0059	ppm	0.0059	MRL <0.05
Molybdenum Mo	mg/l	0.13	0.10	0.08	0.07	0.07	0.08	0.09	0.12	0.09	ppm	0.09	
Nickel Ni	mg/l	0.46	0.48	0.38	0.18	0.27	0.42	0.43	0.55	0.40	ppm	0.40	
Lead Pb	mg/l	0.44	0.51	0.52	0.26	0.36	0.50	0.56	0.53	0.46	ppm	0.46	
Selenium Se	mg/l	0.12	0.16	0.14	0.02	0.02	0.28	0.08	0.02	0.11	ppm	0.11	
Zinc Zn	mg/l	27.50	27.07	23.61	7.71	12.36	24.39	24.09	22.13	21.11	ppm	21.1075	
E. Coli	mg/l	>100000	>100000	>100000	>100000	>100000	>100000	>100000	>100000	>100000	CFU/g	>100000	Geometric Mean

'Since a gram is 1 ml, the units would not be comparable. Results of the cts/g would have to be multiplied by 100 to be equivalent.'

The calculation we use to convert the wet weight (per 100mL) to dry weight (per gram) is as follows:

$$\text{Cts/g (dry weight)} = \frac{\text{cts/g (wet weight)} \times 100\%}{100\% - \text{moisture\%}}$$

Last 8 samples.

If above limit, average all samples of last 4 months.

Category	3	Oxford County
NASM Type	11b	906855 Twp Rd 12
OC2		Plattsville, ON
11b. Aerobically digested sewage biosolids		NOJ 1B0
		519-532-7948
		jkeitzer@oxfordcounty.ca

REPORT NO.
C25217-70008

A & L Canada Laboratories Inc.



ACCOUNT NUMBER
06851

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664

TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 1 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177010
SAMPLE ID:1

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	>100000	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	106.86	ug/ml	0.10	ICP
Total Phosphorus (As P205)	631.66	ug/ml	0.10	ICP
Nitrogen (Total)	15.5	ug/ml	1.0	Combustion
Phosphorus (Total)	275.22	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	15.50	ug/ml	0.01	Colourimetric
Arsenic	0.08	ug/ml	0.02	EPA 6010B (mod)
Copper	13.92	ug/ml	0.02	ICP
Cadmium	0.037	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.13	ug/ml	0.02	ICP
Cobalt	0.11	ug/ml	0.02	ICP
Chromium	0.64	ug/ml	0.02	ICP
Potassium	88.71	ug/ml	0.10	ICP
Zinc	27.50	ug/ml	0.02	ICP
Mercury	0.017	ug/ml	0.001	EPA 7471 *
Nickel	0.46	ug/ml	0.02	ICP
Lead	0.44	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.12	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	2.47	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director



C25217-70008

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REPORT NO.
C25217-70008

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 2 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177011
SAMPLE ID:2

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	>100000	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	105.65	ug/ml	0.10	ICP
Total Phosphorus (As P205)	603.93	ug/ml	0.10	ICP
Nitrogen (Total)	15.2	ug/ml	1.0	Combustion
Phosphorus (Total)	263.14	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	13.45	ug/ml	0.01	Colourimetric
Arsenic	0.07	ug/ml	0.02	EPA 6010B (mod)
Copper	13.75	ug/ml	0.02	ICP
Cadmium	0.035	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.10	ug/ml	0.02	ICP
Cobalt	0.13	ug/ml	0.02	ICP
Chromium	0.67	ug/ml	0.02	ICP
Potassium	87.70	ug/ml	0.10	ICP
Zinc	27.07	ug/ml	0.02	ICP
Mercury	0.008	ug/ml	0.001	EPA 7471 *
Nickel	0.48	ug/ml	0.02	ICP
Lead	0.51	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.16	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	2.42	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director



C25217-70008

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REPORT NO.
C25217-70008

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 3 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177012
SAMPLE ID:3

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Phosphorus (As P205)	518.61	ug/ml	0.10	ICP
Total Potassium (As K20)	93.93	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	>100000	CFU/100ml	1	E3433
Nitrogen (Total)	14.8	ug/ml	1.0	Combustion
Phosphorus (Total)	225.96	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	14.77	ug/ml	0.01	Colourimetric
Arsenic	BDL	ug/ml	0.02	EPA 6010B (mod)
Copper	11.61	ug/ml	0.02	ICP
Cadmium	0.035	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.08	ug/ml	0.02	ICP
Cobalt	0.10	ug/ml	0.02	ICP
Chromium	0.55	ug/ml	0.02	ICP
Potassium	77.98	ug/ml	0.10	ICP
Zinc	23.61	ug/ml	0.02	ICP
Mercury	0.005	ug/ml	0.001	EPA 7471 *
Nickel	0.38	ug/ml	0.02	ICP
Lead	0.52	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.14	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	2.10	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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REPORT NO.
C25217-70008

ACCOUNT NUMBER
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2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 4 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177013
SAMPLE ID:4

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Potassium (As K20)	54.78	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	>100000	CFU/100ml	1	E3433
Total Phosphorus (As P205)	146.56	ug/ml	0.10	ICP
Nitrogen (Total)	31.2	ug/ml	1.0	Combustion
Phosphorus (Total)	63.86	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	29.66	ug/ml	0.01	Colourimetric
Arsenic	BDL	ug/ml	0.02	EPA 6010B (mod)
Copper	3.76	ug/ml	0.02	ICP
Cadmium	0.013	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.07	ug/ml	0.02	ICP
Cobalt	0.07	ug/ml	0.02	ICP
Chromium	0.23	ug/ml	0.02	ICP
Potassium	45.47	ug/ml	0.10	ICP
Zinc	7.71	ug/ml	0.02	ICP
Mercury	0.001	ug/ml	0.001	EPA 7471 *
Nickel	0.18	ug/ml	0.02	ICP
Lead	0.26	ug/ml	0.01	EPA 6010B(mod)
Selenium	BDL	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	1.43	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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REPORT NO.
C25217-70008

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3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 5 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177014
SAMPLE ID:5

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	>100000	CFU/100ml	1	E3433
Total Phosphorus (As P205)	224.16	ug/ml	0.10	ICP
Total Potassium (As K20)	66.82	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Nitrogen (Total)	32.6	ug/ml	1.0	Combustion
Phosphorus (Total)	97.67	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	31.91	ug/ml	0.01	Colourimetric
Arsenic	0.04	ug/ml	0.02	EPA 6010B (mod)
Copper	6.09	ug/ml	0.02	ICP
Cadmium	0.018	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.07	ug/ml	0.02	ICP
Cobalt	0.10	ug/ml	0.02	ICP
Chromium	0.33	ug/ml	0.02	ICP
Potassium	55.47	ug/ml	0.10	ICP
Zinc	12.36	ug/ml	0.02	ICP
Mercury	0.002	ug/ml	0.001	EPA 7471 *
Nickel	0.27	ug/ml	0.02	ICP
Lead	0.36	ug/ml	0.01	EPA 6010B(mod)
Selenium	BDL	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	1.85	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

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Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director



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C25217-70008

ACCOUNT NUMBER
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A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 6 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177015
SAMPLE ID:6

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Phosphorus (As P205)	551.21	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	>100000	CFU/100ml	1	E3433
Total Potassium (As K20)	98.49	ug/ml	0.10	ICP
Nitrogen (Total)	15.5	ug/ml	1.0	Combustion
Phosphorus (Total)	240.17	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	15.48	ug/ml	0.01	Colourimetric
Arsenic	0.08	ug/ml	0.02	EPA 6010B (mod)
Copper	12.26	ug/ml	0.02	ICP
Cadmium	0.033	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.08	ug/ml	0.02	ICP
Cobalt	0.12	ug/ml	0.02	ICP
Chromium	0.62	ug/ml	0.02	ICP
Potassium	81.76	ug/ml	0.10	ICP
Zinc	24.39	ug/ml	0.02	ICP
Mercury	0.005	ug/ml	0.001	EPA 7471 *
Nickel	0.42	ug/ml	0.02	ICP
Lead	0.50	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.28	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	2.23	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director



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TO:ENVIROLAND SERVICES INC
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NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 7 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177016
SAMPLE ID:7

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	>100000	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	93.92	ug/ml	0.10	ICP
Total Phosphorus (As P205)	545.40	ug/ml	0.10	ICP
Nitrogen (Total)	15.2	ug/ml	1.0	Combustion
Phosphorus (Total)	237.63	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	1.36	ug/ml	0.01	Colourimetric
Arsenic	0.08	ug/ml	0.02	EPA 6010B (mod)
Copper	12.05	ug/ml	0.02	ICP
Cadmium	0.031	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.09	ug/ml	0.02	ICP
Cobalt	0.11	ug/ml	0.02	ICP
Chromium	0.57	ug/ml	0.02	ICP
Potassium	77.97	ug/ml	0.10	ICP
Zinc	24.09	ug/ml	0.02	ICP
Mercury	0.005	ug/ml	0.001	EPA 7471 *
Nickel	0.43	ug/ml	0.02	ICP
Lead	0.56	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.08	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	2.17	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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C25217-70008

REPORT NO.
C25217-70008

ACCOUNT NUMBER
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TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 8 / 8

PROJECT NO:
PO#:
LAB NUMBER:2177017
SAMPLE ID:8

SAMPLE MATRIX:LIQUID
DATE SAMPLED:NONE GIVEN
DATE RECEIVED:2025-08-05
DATE REPORTED:2025-08-12
DATE PRINTED:2025-08-13

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	>100000	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Phosphorus (As P205)	416.72	ug/ml	0.10	ICP
Total Potassium (As K20)	105.65	ug/ml	0.10	ICP
Nitrogen (Total)	36.5	ug/ml	1.0	Combustion
Phosphorus (Total)	181.57	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	36.54	ug/ml	0.01	Colourimetric
Arsenic	0.09	ug/ml	0.02	EPA 6010B (mod)
Copper	11.23	ug/ml	0.02	ICP
Cadmium	0.039	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.12	ug/ml	0.02	ICP
Cobalt	0.19	ug/ml	0.02	ICP
Chromium	0.67	ug/ml	0.02	ICP
Potassium	87.70	ug/ml	0.10	ICP
Zinc	22.13	ug/ml	0.02	ICP
Mercury	0.004	ug/ml	0.001	EPA 7471 *
Nickel	0.55	ug/ml	0.02	ICP
Lead	0.53	ug/ml	0.01	EPA 6010B(mod)
Selenium	BDL	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	2.87	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director



C25217-70008

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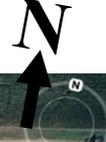
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Jame's Farm
 866876 Township Rd 10
 N Part Lot 15 Concession 9
 Blenheim Twp
 County of Oxford

Harrison Farms (1912) Inc.

Whole Field
 51.52 ac (20.85 ha) workable
 -2 ac
 49.52 ac (19.85 ha) spreadable



Site visit July 26, 2025
 by Jeff Bannerman of
 Crop Quest Inc.

 Setback Line

 Dug Well-None
 90 m app
 Setback

 Tile Outlet -none

 Catch Basin -20m setback

 Drilled Well 15m
 application setback

 Area Subject
 to ponding

Setbacks based on
 Surface application and
 incorporated within 6 hours = 50m setback
 If not incorporated then need 450m setback

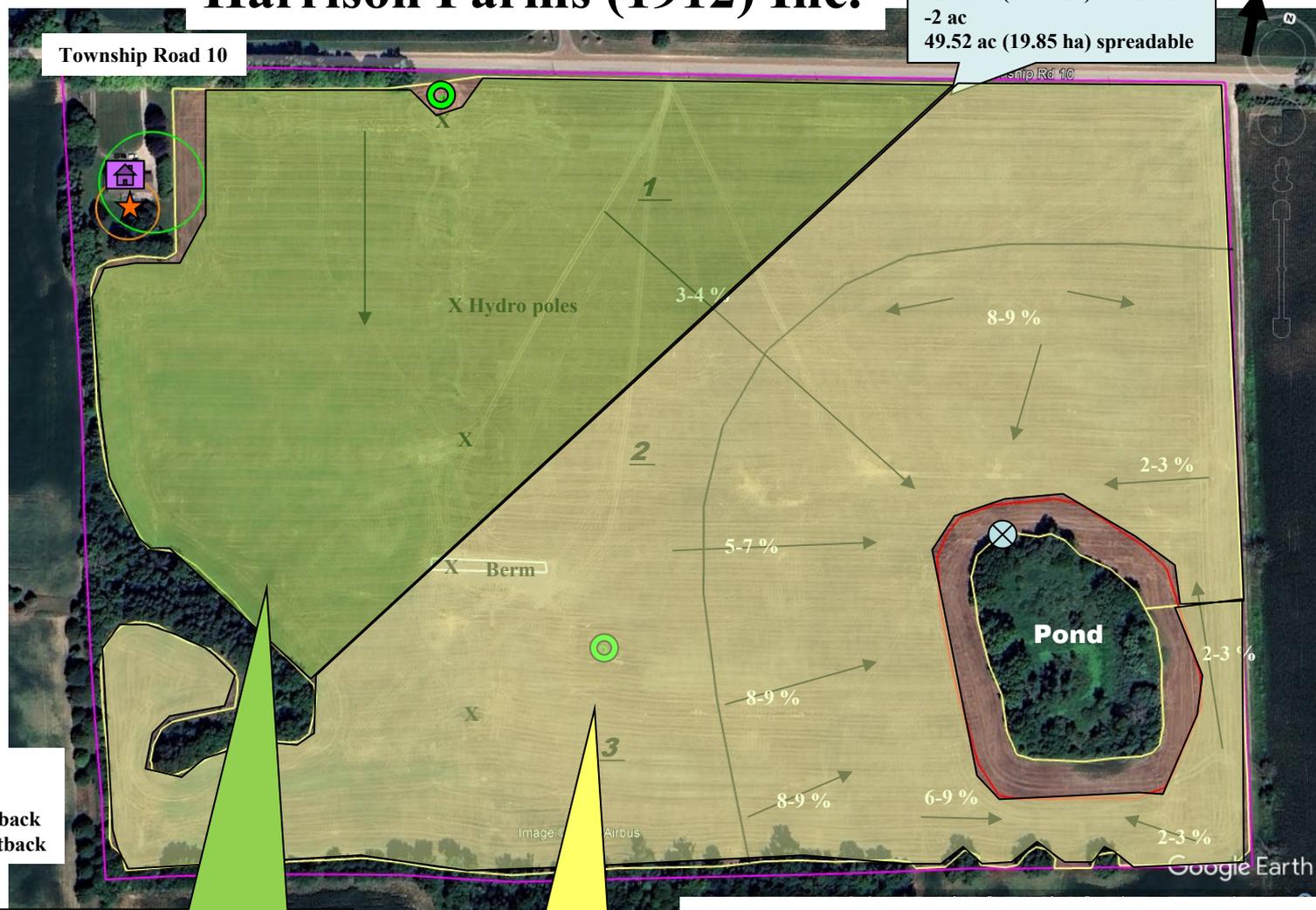
 Farm boundary line

 Field boundary line

 20m setback from water course

 House

1 Represents soil test number



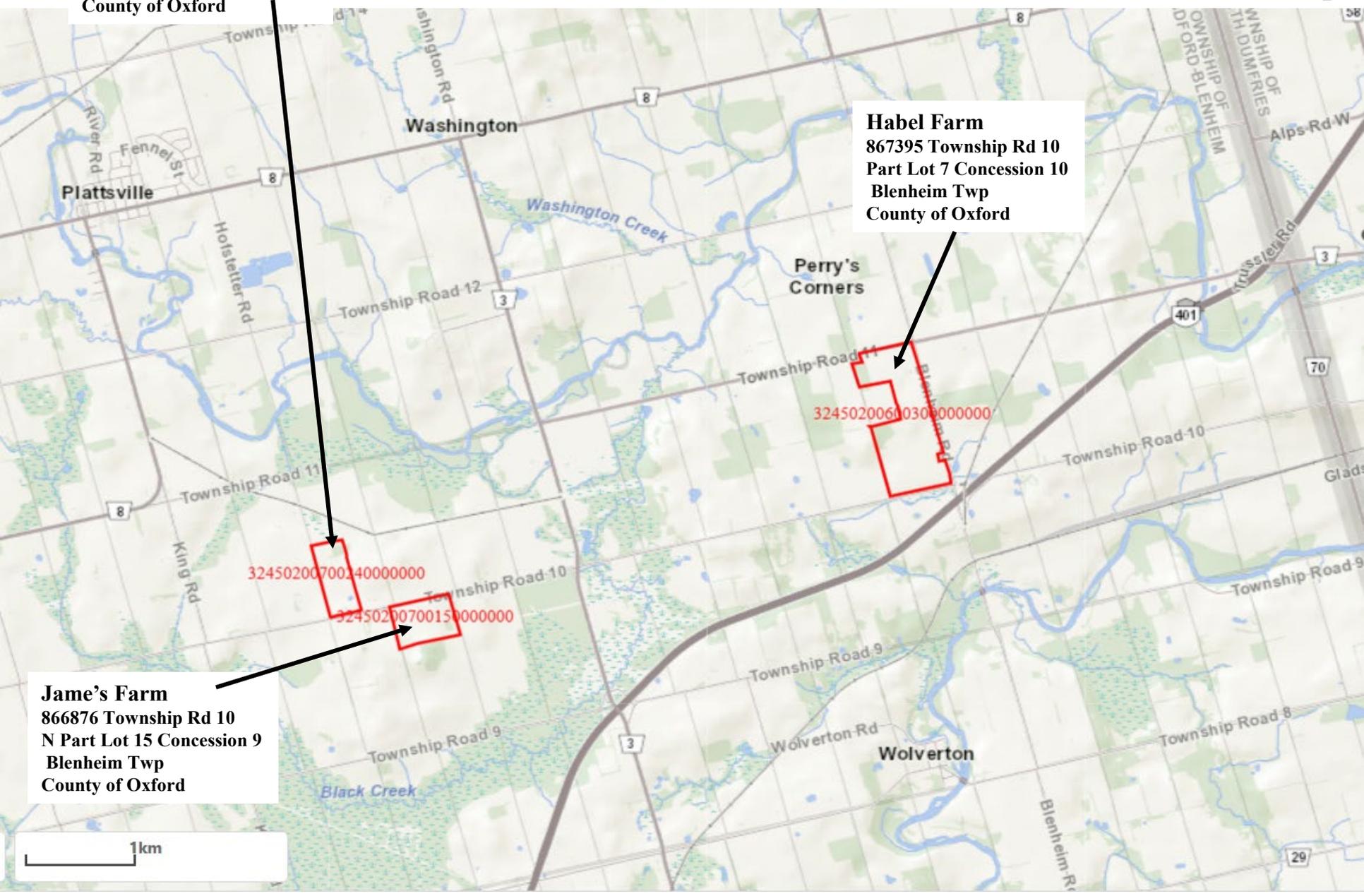
Section B – Lagoon 3
 16.49 ac 6.68 ha covered
 67.32 m³/ha of Platsville Lagoon 3
 Total applied 449.9 m³
 Aug 28, 2025

Section A – Lagoons 1,2
 49 ac 13.167 ha covered
 121.1 m³/ha of Platsville Lagoon 1,2
 Total applied 1594.5 m³
 Aug 18-27, 2025

100 cm soil above bedrock - with no rock outcrops
 Odour setback 25 m from houses, 50m from residential designation
 25m no spread setback from residential houses – incorporated
 NO Residential, Commercial, Community,
 or institutional area within 450 m of property
 All surface water within 150 m of boundary identified on figure
 NO NASM storage at this site
 Systematic Tile Drainage on West 1/3 of field
 NO Areas subject to ponding shown
 No Municipal Well within 100 m of the field boundary
 All other Wells within 90 m of the field boundary shown

Home Farm
866829 Township Rd 10
W Half Lot 16 Concession 10
Blenheim Twp
County of Oxford

Harrison Farms (1912) Inc.



Habel Farm
867395 Township Rd 10
Part Lot 7 Concession 10
Blenheim Twp
County of Oxford

Jame's Farm
866876 Township Rd 10
N Part Lot 15 Concession 9
Blenheim Twp
County of Oxford



NASM post application report (Harrison Farms-Bob Harrison, August 1, 2025 - December 31, 2029 , Submission ID: 62786)

General information

Any false or misleading information included in this document may result in non-compliance with any approvals or permits granted, and prosecution in accordance to the provisions of the Nutrient Management Act, 2002.

The evaluation performed when generating this Post Application Report assumes that all sources of nutrients, including fertilizers, intended for land application on this field have been included when preparing the NASM plan.

Preparer information

Preparer
Jeff Bannerman
(NASM 21584)

Contact details
520 Inkerman Street E
Listowel , ON , Canada N4W 2N7
519-292-0496
jbannerman4@wightman.ca

Agricultural operation information

Operator contact information
Bob Harrison
866829 Township
Rd 10
Blandford-Blenheim,
ON
N0J 1B0
519-537-9801
rharrison4020@gmail.com

Owner is the same as the operator
Yes

Legal farm name
Harrison Farms
(1912) Inc

Material source summary (NASM)

Plattsville Lagoon 3

Storage

Form
Liquid

Metals content
CM2

Pathogen content
CP2

Odour category
OC1

Material components

NASM component (Plattsville Sewage Biosolids)

Type

11a. Liquid anaerobically digested sewage biosolids (Category: 3, Pathogen: CP2, Odour: OC1)

Contact information

Oxford County
906885 Township Rd 12
Plattsville , ON
Canada N0J 1B0
519-532-7948
jkreitzer@oxfordcounty.ca

Material samples

Sample date

Aug 28, 2025

Metals content

CM2

Pathogen content

CP2

Beneficial use

This material shows beneficial use

Lab analysis results (dry basis)

Nutrient type	Value	Category
Dry Matter (DM)	5.62 %	-
Nitrogen (Total Kjeldhal Nitrogen)	1.37 %	-
Ammonia + Ammonium Nitrogen	1730 ppm	-
Nitrate + Nitrite Nitrogen	9 ppm	-
Phosphorus (P)	1.4 %	-
Potassium (K)	0.1 %	-
Arsenic (As)	2 ppm	CM1
Cadmium (Cd)	< 1 ppm	CM1
Cobalt (Co)	2 ppm	CM1
Chromium (Cr)	13.65 ppm	CM1
Copper (Cu)	2 ppm	CM1
Mercury (Hg)	0.1 ppm	CM1
Molybdenum (Mo)	6 ppm	CM2
Nickel (Ni)	7.16 ppm	CM1
Lead (Pb)	< 1 ppm	CM1
Selenium (Se)	< 1 ppm	CM1
Zinc (Zn)	167.98 ppm	CM1
E. coli	4449 CFU	CP2

Farm unit summary

Jame's Farm

This farm

- Receives commercial fertilizer
- Receives NASM

Status

Owned

Farm location

County of Oxford , Township of Blandford-Blenheim

- BLENHEIM, Concession: 9 , Lot: 15

Roll numbers

- 324502007001500

911 address (if available)

866876 Township Rd 10

Field summary - Jame's Farm, Section B-Lagoon 3

Area for material 6.68 ha	Field contains or is adjacent to surface water Yes	Maximum slope 9%
Slope near surface water 9%	Tile drainage system Random	Soil samples Soil parameters conform with S.98.0.12 & 98.0.17

Field inputs

	Agronomic (kg/ha)			Crop removal (kg/ha)		
	N	(P ₂ O ₅)	(K ₂ O)	N	(P ₂ O ₅)	(K ₂ O)
Material App Application date: Aug 28, 2025 Plattsville Lagoon 3 @ 67.32 m ³ /ha Placed with planter / Injected Total amount applied: 450 m ³	17	49	4	17	97	4
Cover Crop, oats @ 2.2 tonne/ha Sep 1, 2025 - Oct 31, 2026	0	0	0	-37	-12	-45
Fertilizer App (blend) Application date: Sep 1, 2025	52	0	67	52	0	67
Corn, grain @ 12.58 tonne/ha May 1, 2026 - Oct 24, 2026	-226	0	-30	-185	-94	-65
Corn Starter (5-26-30 @ 112 kg/ha) Application date: May 1, 2026	6	29	34	6	29	34
Fertilizer App (46-0-0 urea @ 329.27 kg/ha) Application date: May 1, 2026	147	0	0	147	0	0
Nutrient balance Jul 31, 2025 - Oct 30, 2026	-5 	78 	75 	0	20	-5
Multi-year balance Sep 1, 2024 - Oct 30, 2026	-128	78	55	-220	-59	-189

NASM application summary

Nitrogen

NASM applied N

17 kg/ha (79 % limit for Fall 2025 - Fall 2026)

Phosphate

P2O5 crop removal balance

20 kg/ha (Fall 2025 - Fall 2026)

Previous 5-year P2O5 crop removal balance

-59 kg/ha (-15 % of 5 year limit)

Total solids

This application

3.8 tonne/ha

Total applied over regulated time period

3.8 tonne/ha (17 % of 5 year limit)

Regulated metals

Regulated metals	Soil test	This application	Total applied	5 year limit
Arsenic (As)	1 <u>ppm</u>	0.008 <u>kg/ha</u>	0.008 <u>kg/ha</u>	1 %
Cadmium (Cd)	1 <u>ppm</u>	0.004 <u>kg/ha</u>	0.004 <u>kg/ha</u>	1 %
Cobalt (Co)	5.82 <u>ppm</u>	0.008 <u>kg/ha</u>	0.008 <u>kg/ha</u>	0 %
Chromium (Cr)	21.94 <u>ppm</u>	0.052 <u>kg/ha</u>	0.052 <u>kg/ha</u>	0 %
Copper (Cu)	10.42 <u>ppm</u>	0.008 <u>kg/ha</u>	0.008 <u>kg/ha</u>	0 %
Mercury (Hg)	0.1 <u>ppm</u>	0 <u>kg/ha</u>	0 <u>kg/ha</u>	0 %
Molybdenum (Mo)	1.2 <u>ppm</u>	0.023 <u>kg/ha</u>	0.023 <u>kg/ha</u>	3 %
Nickel (Ni)	8.55 <u>ppm</u>	0.027 <u>kg/ha</u>	0.027 <u>kg/ha</u>	1 %
Lead (Pb)	10 <u>ppm</u>	0.004 <u>kg/ha</u>	0.004 <u>kg/ha</u>	0 %
Selenium (Se)	1 <u>ppm</u>	0.004 <u>kg/ha</u>	0.004 <u>kg/ha</u>	1 %
Zinc (Zn)	53.73 <u>ppm</u>	0.636 <u>kg/ha</u>	0.636 <u>kg/ha</u>	2 %

NASM minimum setback summary

Wells

Municipal well
100 m

Drilled well
15 m

Other well
90 m

Surface water

No vegetated buffer
20 m

Odour

Single dwelling
25 m

Residential area, commercial, community
or institutional
50 m

NASM waiting periods

Pre-harvest waiting period after application

Crop	Waiting period
Commercial sod	12 months
Hay and haylage	3 weeks
Tree fruits and grapes	3 months
Small fruits	15 months
Vegetables	12 months
Tobacco	12 months

Pre-grazing waiting period after application

Livestock type	Waiting period
Horses, beef or dairy cattle	2 months
Swine, sheep or goats	6 months

NASM depth of unsaturated soil

Depth	Restrictions
< 30 cm	No application is permitted
30 - 60 cm	No application is permitted
60 - 90 cm	No application is permitted
> 90 cm	No restrictions

Flag summary



Crop Yield (Section B-Lagoon 3)

Crop Yield: 12.6 tonne/ha (Maximum: 11.9 tonne/ha)

Post Application Report Attachments

Material Sample Analysis Results

Attach and clearly label the NASM analytical test results. Each NASM sample must be collected, transported and analyzed in accordance with the Sampling and Analysis Protocol. Provide a sample key if required. The number of sample results must comply with "Part IX: Sampling, Analysis and Quality Standards and Land Application Rates" in Ontario Regulation 267/03.

In the current release of AgriSuite, the user must average sample results outside of AgriSuite and enter in the average value into AgriSuite. Although not required, it is recommended that a summary table of NASM results also be attached which lists out the individual sample results by date and includes the calculated averages used in AgriSuite. This summary table will help to speed up the review of the NASM plan as all calculations must be checked.

Soil Sample Results

If new or additional soil analysis has been carried out for the NASM application area since the approval of the NASM plan or the registration of the operation, include those analyses with this document. Each soil sample must be collected, transported and analyzed in accordance with the Sampling and Analysis Protocol.

Updated field sketch

Post application sketch(es) are based on actual land application activities and conditions that existed at the time of land application. The sketch(es) must address the presence or absence of the following components, and include the separation distances put in place to protect sensitive features:

- field identifier, field boundaries and sections within the field
- field tile drains and the location of the tile inlets and tile outlets
- areas where the soil depth is less than 30 cm and rock outcrops
- areas subject to ponding
- location of dwellings, residential areas and areas of commercial, community or institutional land uses
- location of any municipal wells within 100 metres of the NASM application area
- location of all other known wells within 90 metres of the NASM application area
- location of all surface water within 150 metres of the NASM application area
- maximum sustained slopes within 150 metres of surface water

List of Attachments:

- Required Sampling and Analysis results
- Updated field sketch

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Material Analysis **Liquid Sludge - Lagoon 3**
Site: Plattsville Lagoon **Wet basis-Except E.Coli**

Analyte	Unit	Last 4				Samples Average	AgriSuite Units	Average in AgriSuite Units	Notes
		sample 1 27-Aug-25	sample 2 27-Aug-25	sample 3 27-Aug-25	sample 4 27-Aug-25				
Total Solids	%	3.1	4.99	3.34	6.76	4.55	DM %	4.548	
Total Kjeldahl Nitrogen	ug/ml	17.8	22.9	19.2	28.4	22.08	%	0.002	
Ammonia N-NH3	ug/ml	17.02	22.04	19.21	28.43	21.68	ppm	21.675	
Nitrate + Nitrite	ug/ml	1	1	1	1	1.00	ppm	1.000	
Total Phosphorus P	ug/ml	1512.4	1344.07	1217.91	2209.39	1570.94	%	0.1571	
Total Potassium K	ug/ml	99.94	126.65	62.42	114.25	100.82	%	0.0101	
Arsenic As	ug/ml	0.15	0.15	0.14	0.21	0.16	ppm	0.16	
Cadmium Cd	ug/ml	0.025	0.035	0.012	0.029	0.03	ppm	0.03	
Cobalt Co	ug/ml	0.19	0.28	0.13	0.28	0.22	ppm	0.22	Wet Basis
Chromium Cr	ug/ml	1.14	1.29	0.59	1.17	1.05	ppm	1.05	
Copper Cu	ug/ml	3.37	3.71	2.61	6.02	3.93	ppm	3.93	
Mercury Hg	ug/ml	0.0480	0.0700	0.0340	0.0810	0.0583	ppm	0.0583	MRL <0.05
Molybdenum Mo	ug/ml	0.13	0.12	0.14	0.18	0.14	ppm	0.14	
Nickel Ni	ug/ml	0.47	0.61	0.31	0.73	0.53	ppm	0.53	
Lead Pb	ug/ml	0.26	0.42	0.01	0.24	0.23	ppm	0.23	
Selenium Se	ug/ml	0.08	0.08	0.14	0.02	0.08	ppm	0.08	
Zinc Zn	ug/ml	8.12	9.17	5.09	10.25	8.16	ppm	8.1575	
E. Coli	CFU/100	800	800	700	688.12	745.136	CFU/g	745	Geometric Mean

'Since a gram is 1 ml, the units would not be comparable. Results of the cts/g would have to be multiplied by 100 to be equivalent.'

The calculation we use to convert the wet weight (per 100mL) to dry weight (per gram) is as follows:

$$\text{Cts/g (dry weight)} = \frac{\text{cts/g (wet weight)} \times 100\%}{100\% - \text{moisture\%}}$$

Last 8 samples.

If above limit, average all samples of last 4 months.

Category	3	Oxford County
NASM Type	11a	906855 Twp Rd 12
OC2		Plattsville, ON
11A. Anaerobically digested sewage biosolids		NOJ 1B0
		519-532-7948
		jkeitzer@oxfordcounty.ca

REPORT NO.
C25232-70013

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO: ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN: Ryan Rohrer

Phone: 519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 1 / 4

PROJECT NO:
PO#:
LAB NUMBER: 2327019
SAMPLE ID: PLATTSVILLE LAGOON SAMPLE 1

SAMPLE MATRIX: LIQUID
DATE SAMPLED: 2025-08-20
DATE RECEIVED: 2025-08-20
DATE REPORTED: 2025-08-26
DATE PRINTED: 2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E. Coli	800	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	601.91	ug/ml	0.10	ICP
Total Phosphorus (As P205)	3471.11	ug/ml	0.10	ICP
Nitrogen (Total)	17.8	ug/ml	1.0	Combustion
Phosphorus (Total)	1512.40	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	17.02	ug/ml	0.01	Colourimetric
Arsenic	0.15	ug/ml	0.02	EPA 6010B (mod)
Copper	3.37	ug/ml	0.02	ICP
Cadmium	0.025	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.13	ug/ml	0.02	ICP
Cobalt	0.19	ug/ml	0.02	ICP
Chromium	1.14	ug/ml	0.02	ICP
Potassium	99.94	ug/ml	0.10	ICP
Zinc	8.12	ug/ml	0.02	ICP
Mercury	0.048	ug/ml	0.001	EPA 7471 *
Nickel	0.47	ug/ml	0.02	ICP
Lead	0.26	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.08	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	3.10	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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C25232-70013

REPORT NO.
C25232-70013

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer

Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 2 / 4

PROJECT NO:
PO#:
LAB NUMBER:2327020
SAMPLE ID:PLATTSVILLE LAGOON SAMPLE 2

SAMPLE MATRIX:LIQUID
DATE SAMPLED:2025-08-20
DATE RECEIVED:2025-08-20
DATE REPORTED:2025-08-26
DATE PRINTED:2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Phosphorus (As P205)	3084.76	ug/ml	0.10	ICP
Total Potassium (As K20)	762.79	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	800	CFU/100ml	1	E3433
Nitrogen (Total)	22.9	ug/ml	1.0	Combustion
Phosphorus (Total)	1344.07	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	22.04	ug/ml	0.01	Colourimetric
Arsenic	0.15	ug/ml	0.02	EPA 6010B (mod)
Copper	3.71	ug/ml	0.02	ICP
Cadmium	0.035	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.12	ug/ml	0.02	ICP
Cobalt	0.28	ug/ml	0.02	ICP
Chromium	1.29	ug/ml	0.02	ICP
Potassium	126.65	ug/ml	0.10	ICP
Zinc	9.17	ug/ml	0.02	ICP
Mercury	0.070	ug/ml	0.001	EPA 7471 *
Nickel	0.61	ug/ml	0.02	ICP
Lead	0.42	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.08	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	4.99	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

C25232-70013

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ACCOUNT NUMBER
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A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 3 / 4

PROJECT NO:
PO#:
LAB NUMBER:2327021
SAMPLE ID:PLATTSVILLE LAGOON SAMPLE 3

SAMPLE MATRIX:LIQUID
DATE SAMPLED:2025-08-20
DATE RECEIVED:2025-08-20
DATE REPORTED:2025-08-26
DATE PRINTED:2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	700	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	375.96	ug/ml	0.10	ICP
Total Phosphorus (As P205)	2795.23	ug/ml	0.10	ICP
Nitrogen (Total)	19.2	ug/ml	1.0	Combustion
Phosphorus (Total)	1217.91	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	19.21	ug/ml	0.01	Colourimetric
Arsenic	0.14	ug/ml	0.02	EPA 6010B (mod)
Copper	2.61	ug/ml	0.02	ICP
Cadmium	0.012	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.14	ug/ml	0.02	ICP
Cobalt	0.13	ug/ml	0.02	ICP
Chromium	0.59	ug/ml	0.02	ICP
Potassium	62.42	ug/ml	0.10	ICP
Zinc	5.09	ug/ml	0.02	ICP
Mercury	0.034	ug/ml	0.001	EPA 7471 *
Nickel	0.31	ug/ml	0.02	ICP
Lead	BDL	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.14	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	3.34	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:



C25232-70013

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Haifeng Song, Ph.D., C.Chem. Lab Director

REPORT NO.
C25232-70013

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

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TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer

Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 4 / 4

PROJECT NO:
PO#:
LAB NUMBER:2327022
SAMPLE ID:PLATTSVILLE LAGOON SAMPLE 4

SAMPLE MATRIX:LIQUID
DATE SAMPLED:2025-08-20
DATE RECEIVED:2025-08-20
DATE REPORTED:2025-08-26
DATE PRINTED:2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Potassium (As K20)	688.12	ug/ml	0.10	ICP
Total Phosphorus (As P205)	5070.76	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	300	CFU/100ml	1	E3433
Nitrogen (Total)	28.4	ug/ml	1.0	Combustion
Phosphorus (Total)	2209.39	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	28.43	ug/ml	0.01	Colourimetric
Arsenic	0.21	ug/ml	0.02	EPA 6010B (mod)
Copper	6.02	ug/ml	0.02	ICP
Cadmium	0.029	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.18	ug/ml	0.02	ICP
Cobalt	0.28	ug/ml	0.02	ICP
Chromium	1.17	ug/ml	0.02	ICP
Potassium	114.25	ug/ml	0.10	ICP
Zinc	10.25	ug/ml	0.02	ICP
Mercury	0.081	ug/ml	0.001	EPA 7471 *
Nickel	0.73	ug/ml	0.02	ICP
Lead	0.24	ug/ml	0.01	EPA 6010B(mod)
Selenium	BDL	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	6.76	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

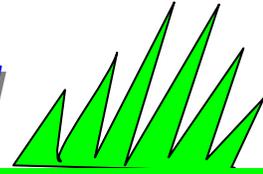
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Crop/Quest Inc.



Nutrient Management Consulting

Post Application Report

Prepared for

Green Alda Farms Inc

Cecil Hofstetter

MC Farm -East Side

926862 Oxford Rd 8

Plattsville, ON

519-504-7349

Prepared by:

Jeff Bannerman C.C.A.-ON

520 Inkerman St. E.

Listowel N4W 2N7

Office : (519) 291-5007

Cell # : (519) 292-0496

E-Mail: jbannerman4@wightman.ca

Web Site : www.cropquest.ca

NASM post application report (Cecil Hofstetter- NASM, August 1, 2025 - December 31, 2029 , Submission ID: 62785)

General information

Any false or misleading information included in this document may result in non-compliance with any approvals or permits granted, and prosecution in accordance to the provisions of the Nutrient Management Act, 2002.

The evaluation performed when generating this Post Application Report assumes that all sources of nutrients, including fertilizers, intended for land application on this field have been included when preparing the NASM plan.

Preparer information

Preparer
Jeff Bannerman
(NASM 21584)

Contact details
520 Inkerman Street E
Listowel , ON , Canada N4W 2N7
519-292-0496
jbannerman4@wightman.ca

Agricultural operation information

Operator contact information
Cecil Hofstetter
876768 Hofstetter Rd
Platville, ON
N0J 1S0
519-504-7349
greenaldafarms@gmail.com

Owner is the same as the operator
Yes

Legal farm name
Green Alda Farms
Inc

Material source summary (NASM)

Plattsville Lagoon 3

Storage

Form
Liquid

Metals content
CM2

Pathogen content
CP2

Odour category
OC1

Material components

NASM component (Plattsville Sewage Biosolids)

Type

11a. Liquid anaerobically digested sewage biosolids (Category: 3, Pathogen: CP2, Odour: OC1)

Contact information

Oxford County
906885 Township Rd 12
Plattsville , ON
Canada N0J 1B0
519-532-7948
jkreitzer@oxfordcounty.ca

Material samples

Sample date

Sep 2, 2025

Metals content

CM1

Pathogen content

CP1

Beneficial use

This material shows beneficial use

Lab analysis results (wet basis)

Nutrient type	Value	Category
Dry Matter (DM)	5.62 %	-
Nitrogen (Total Kjeldhal Nitrogen)	0.017 %	-
Ammonia + Ammonium Nitrogen	37 ppm	-
Nitrate + Nitrite Nitrogen	1 ppm	-
Phosphorus (P)	0.14 %	-
Potassium (K)	0.0092 %	-
Arsenic (As)	0.15 ppm	CM1
Cadmium (Cd)	0.15 ppm	CM1
Cobalt (Co)	0.2 ppm	CM1
Chromium (Cr)	0.99 ppm	CM1
Copper (Cu)	4.46 ppm	CM1
Mercury (Hg)	0.0047 ppm	CM1
Molybdenum (Mo)	0.18 ppm	CM1
Nickel (Ni)	0.5 ppm	CM1
Lead (Pb)	0.05 ppm	CM1
Selenium (Se)	0.07 ppm	CM1
Zinc (Zn)	8.414 ppm	CM1
E. coli	599 CFU	CP1

Farm unit summary

MC Farm (Farm 2)**This farm**

- Receives ASM
- Receives commercial fertilizer
- Receives NASM

Status

Owned

Farm location

County of Oxford , Township of Blandford-Blenheim

- BLENHEIM, Concession: 12 , Lot: 16

Roll numbers

- 324502007007200

911 address (if available)

867395 Township Rd 10

Notes

Farm is on the SE corner of Oxford Rd 8 & Hofstetter Rd

Field summary - MC Farm (Farm 2), East Field

Area for material 18.63 ha	Field contains or is adjacent to surface water No	Maximum slope 3%
Tile drainage system None	Soil samples Soil parameters conform with S.98.0.12 & 98.0.17	

Field inputs

	Agronomic (kg/ha)			Crop removal (kg/ha)		
	N	(P ₂ O ₅)	(K ₂ O)	N	(P ₂ O ₅)	(K ₂ O)
Material App Application date: Sep 9, 2025 Plattsville Lagoon 3 @ 95 m ³ /ha Placed with planter / Injected Total amount applied: 1770 m ³	5	122	9	5	244	9
Material App Application date: Sep 15, 2025 Plattsville Lagoon 3 @ 113.25 m ³ /ha Placed with planter / Injected Total amount applied: 2110 m ³	6	145	11	6	290	11
Corn, grain @ 12.58 tonne/ha May 1, 2026 - Oct 24, 2026	-208	0	-50	-185	-94	-65
Starter Fertilizer (5-26-30 @ 56 kg/ha) Application date: May 1, 2026	3	15	17	3	15	17
Fertilizer App (blend) Application date: May 1, 2026	193	0	34	193	0	34
Nutrient balance Jul 21, 2025 - Oct 23, 2026	-1 	282 	21 	22	455	6
Multi-year balance Sep 1, 2024 - Oct 23, 2026	-124	282	1	-198	376 	-178

NASM application summary

Nitrogen

NASM applied N
6 kg/ha (86 % limit for Fall 2025 - Fall 2026)

Phosphate

P2O5 crop removal balance
455 kg/ha (Fall 2025 - Fall 2026)

Previous 5-year P2O5 crop removal balance
376 kg/ha (96 % of 5 year limit)

Total solids

This application
6.4 tonne/ha

Total applied over regulated time period
11.7 tonne/ha (53 % of 5 year limit)

Regulated metals

Regulated metals	Soil test	This application	Total applied	5 year limit
Arsenic (As)	3 ppm	0.017 kg/ha	0.031 kg/ha	2 %
Cadmium (Cd)	1 ppm	0.017 kg/ha	0.031 kg/ha	12 %
Cobalt (Co)	6.99 ppm	0.023 kg/ha	0.042 kg/ha	2 %
Chromium (Cr)	20.15 ppm	0.112 kg/ha	0.206 kg/ha	1 %
Copper (Cu)	22.57 ppm	0.505 kg/ha	0.929 kg/ha	7 %
Mercury (Hg)	0.1 ppm	0.001 kg/ha	0.001 kg/ha	1 %
Molybdenum (Mo)	1.3 ppm	0.02 kg/ha	0.037 kg/ha	5 %
Nickel (Ni)	10.6 ppm	0.057 kg/ha	0.104 kg/ha	3 %
Lead (Pb)	12 ppm	0.006 kg/ha	0.01 kg/ha	0 %
Selenium (Se)	1 ppm	0.008 kg/ha	0.015 kg/ha	5 %
Zinc (Zn)	64.65 ppm	0.953 kg/ha	1.752 kg/ha	5 %

NASM minimum setback summary

Wells

Municipal well
100 m

Drilled well
15 m

Other well
90 m

Surface water

No vegetated buffer
20 m

Odour

Single dwelling
25 m

Residential area, commercial, community
or institutional
50 m

NASM waiting periods

Pre-harvest waiting period after application

Crop	Waiting period
Commercial sod	12 months
Hay and haylage	3 weeks
Tree fruits and grapes	3 months
Small fruits	15 months
Vegetables	12 months
Tobacco	12 months

Pre-grazing waiting period after application

Livestock type	Waiting period
Horses, beef or dairy cattle	2 months
Swine, sheep or goats	6 months

NASM depth of unsaturated soil

Depth	Restrictions
< 30 cm	No application is permitted
30 - 60 cm	No application is permitted
60 - 90 cm	Application is permitted if the maximum application rate is 40 m ³ /ha per 48 hours.
> 90 cm	No restrictions

Flag summary



Crop Yield (East Field)

Crop Yield: 12.6 tonne/ha (Maximum: 11.9 tonne/ha)

Post Application Report Attachments

Material Sample Analysis Results

Attach and clearly label the NASM analytical test results. Each NASM sample must be collected, transported and analyzed in accordance with the Sampling and Analysis Protocol. Provide a sample key if required. The number of sample results must comply with "Part IX: Sampling, Analysis and Quality Standards and Land Application Rates" in Ontario Regulation 267/03.

In the current release of AgriSuite, the user must average sample results outside of AgriSuite and enter in the average value into AgriSuite. Although not required, it is recommended that a summary table of NASM results also be attached which lists out the individual sample results by date and includes the calculated averages used in AgriSuite. This summary table will help to speed up the review of the NASM plan as all calculations must be checked.

Soil Sample Results

If new or additional soil analysis has been carried out for the NASM application area since the approval of the NASM plan or the registration of the operation, include those analyses with this document. Each soil sample must be collected, transported and analyzed in accordance with the Sampling and Analysis Protocol.

Updated field sketch

Post application sketch(es) are based on actual land application activities and conditions that existed at the time of land application. The sketch(es) must address the presence or absence of the following components, and include the separation distances put in place to protect sensitive features:

- field identifier, field boundaries and sections within the field
- field tile drains and the location of the tile inlets and tile outlets
- areas where the soil depth is less than 30 cm and rock outcrops
- areas subject to ponding
- location of dwellings, residential areas and areas of commercial, community or institutional land uses
- location of any municipal wells within 100 metres of the NASM application area
- location of all other known wells within 90 metres of the NASM application area
- location of all surface water within 150 metres of the NASM application area
- maximum sustained slopes within 150 metres of surface water

List of Attachments:

- Required Sampling and Analysis results
- Updated field sketch

Green Alda Farms Inc – Cecil Hofstetter

MC Farm
926862 Oxford Rd 8
Lot 16 Concession 12
Blenheim Twp
County of Oxford

Site visit August 6, 2025
by Jeff Bannerman of
Crop Quest Inc.

-  Setback Line
-  Dug Well-None
90 m app
Setback
-  Tile Outlet -none
-  Catch Basin -20m setback
-  Drilled Well 15m
application setback
-  Area Subject
to ponding

Setbacks based on
Surface application and
incorporated within 6 hours = 50m setback
If not incorporated then need 450m setback
Pink circle

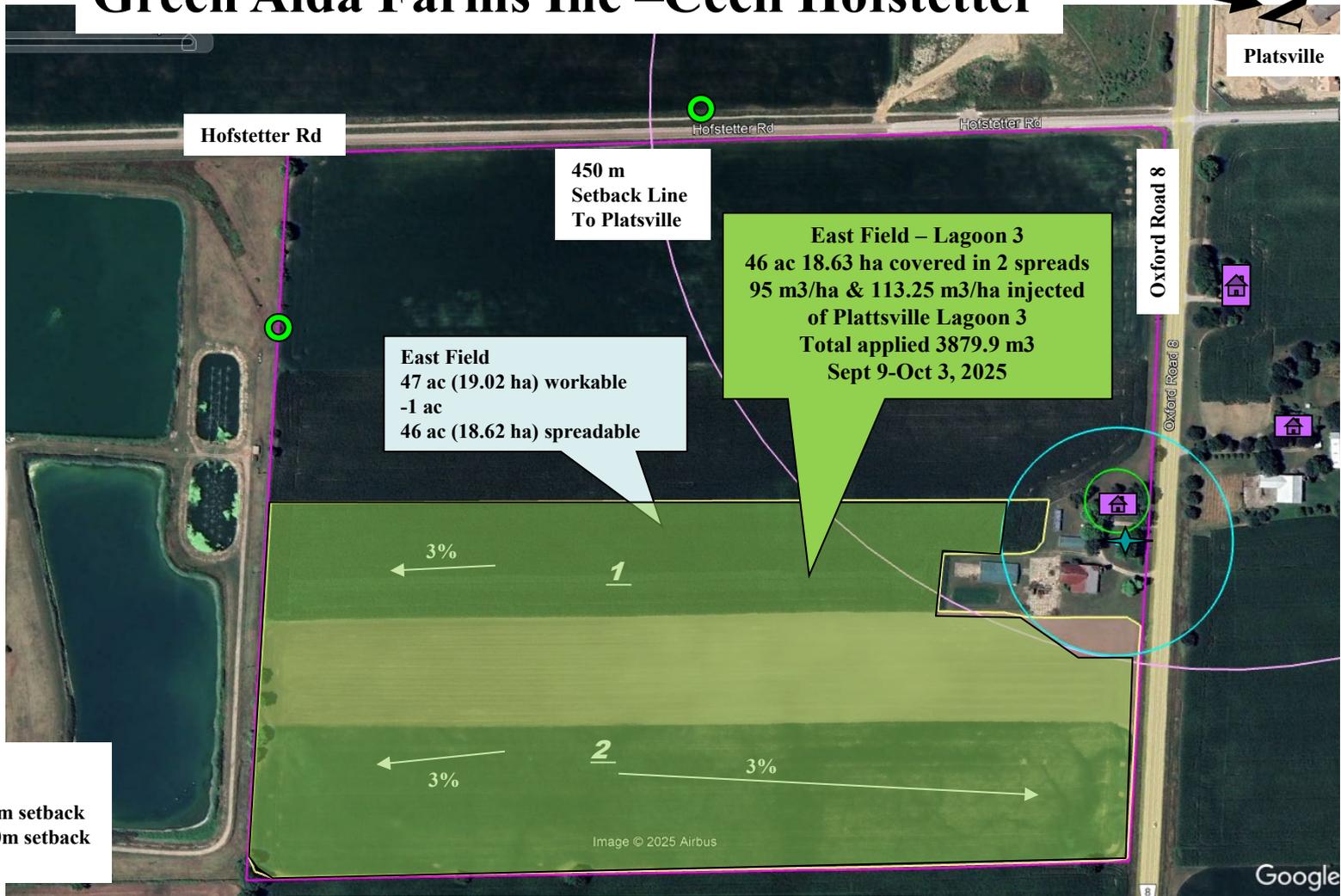
 Farm boundary line

 Field boundary line

20m setback from water course-None

 House

1 Represents soil test number



No surface water
Within 150 m of property

100 cm soil above bedrock - with no rock outcrops
Odour setback 25 m from houses, 50m from residential designation
25m no spread setback from residential houses – incorporated
Residential, Commercial, Community,
or institutional area within 450 m of property shown as pink line
All surface water within 150 m of boundary identified on figure
NO NASM storage at this site
Random Tile Drainage in all fields
NO Areas subject to ponding shown
No Municipal Well within 100 m of the field boundary
All other Wells within 90 m of the field boundary shown

Tile Outlet
At next farm to
The East



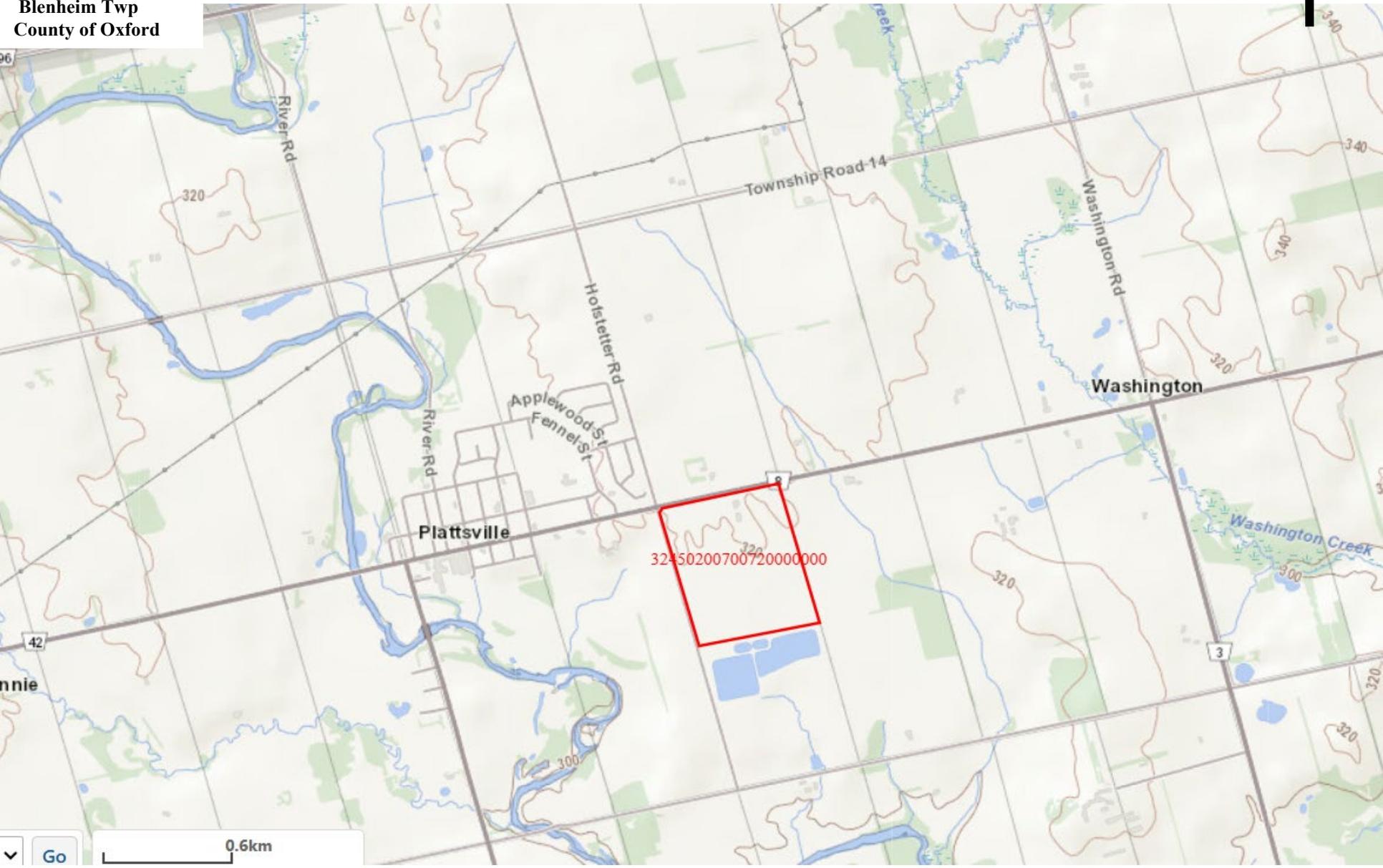
Plattsville

Google

Image © 2025 Airbus

MC Farm
926862 Oxford Rd 8
Lot 16 Concession 12
Blenheim Twp
County of Oxford

Green Alda Farms Inc –Cecil Hofstetter



Material Analysis **Liquid Sludge - Lagoon 3**
Site: Plattsville Lagoon **Wet basis-Except E.Coli**

Analyte	Unit	sample 1 27-Aug-25	sample 2 27-Aug-25	sample 3 27-Aug-25	sample 4 27-Aug-25	sample 5 02-Sep-25	Last 4	AgriSuite Units	Average in AgriSuite Units	Notes
							Samples Average			
Total Solids	%	3.1	4.99	3.34	6.76	5.62	4.76	DM %	4.762	
Total Kjeldahl Nitrogen	ug/ml	17.8	22.9	19.2	28.4	770	171.66	%	0.017	
Ammonia N-NH3	ug/ml	17.02	22.04	19.21	28.43	97.27	36.79	ppm	36.794	
Nitrate + Nitrite	ug/ml	1	1	1	1	1	1.00	ppm	1.000	
Total Phosphorus P	ug/ml	1512.4	1344.07	1217.91	2209.39	800	1416.75	%	0.1417	
Total Potassium K	ug/ml	99.94	126.65	62.42	114.25	56	91.85	%	0.0092	
Arsenic As	ug/ml	0.15	0.15	0.14	0.21	0.11	0.15	ppm	0.15	
Cadmium Cd	ug/ml	0.025	0.035	0.012	0.029	0.056	0.03	ppm	0.03	
Cobalt Co	ug/ml	0.19	0.28	0.13	0.28	0.11	0.20	ppm	0.20	Wet Basis
Chromium Cr	ug/ml	1.14	1.29	0.59	1.17	0.77	0.99	ppm	0.99	
Copper Cu	ug/ml	3.37	3.71	2.61	6.02	6.58	4.46	ppm	4.46	
Mercury Hg	ug/ml	0.0480	0.0700	0.0340	0.0810	0.0056	0.0477	ppm	0.0477	MRL <0.05
Molybdenum Mo	ug/ml	0.13	0.12	0.14	0.18	0.34	0.18	ppm	0.18	
Nickel Ni	ug/ml	0.47	0.61	0.31	0.73	0.40	0.50	ppm	0.50	
Lead Pb	ug/ml	0.26	0.42	0.01	0.24	0.06	0.20	ppm	0.20	
Selenium Se	ug/ml	0.08	0.08	0.14	0.02	0.01	0.07	ppm	0.07	
Zinc Zn	ug/ml	8.12	9.17	5.09	10.25	9.44	8.41	ppm	8.414	
E. Coli	CFU/100	800	800	700	688.12	250	598.93052	CFU/g	599	Geometric Mean

'Since a gram is 1 ml, the units would not be comparable. Results of the cts/g would have to be multiplied by 100 to be equivalent.'

The calculation we use to convert the wet weight (per 100mL) to dry weight (per gram) is as follows:

$$\text{Cts/g (dry weight)} = \frac{\text{cts/g (wet weight)} \times 100\%}{100\% - \text{moisture\%}}$$

Last 8 samples.

If above limit, average all samples of last 4 months.

Category	3	Oxford County
NASM Type	11a	906855 Twp Rd 12
OC2		Plattsville, ON
11A. Anaerobically digested sewage biosolids		NOJ 1B0
		519-532-7948
		jkeitzer@oxfordcounty.ca

REPORT NO.
C25232-70013

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer

Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 1 / 4

PROJECT NO:
PO#:
LAB NUMBER:2327019
SAMPLE ID:PLATTSVILLE LAGOON SAMPLE 1

SAMPLE MATRIX:LIQUID
DATE SAMPLED:2025-08-20
DATE RECEIVED:2025-08-20
DATE REPORTED:2025-08-26
DATE PRINTED:2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	800	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	601.91	ug/ml	0.10	ICP
Total Phosphorus (As P205)	3471.11	ug/ml	0.10	ICP
Nitrogen (Total)	17.8	ug/ml	1.0	Combustion
Phosphorus (Total)	1512.40	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	17.02	ug/ml	0.01	Colourimetric
Arsenic	0.15	ug/ml	0.02	EPA 6010B (mod)
Copper	3.37	ug/ml	0.02	ICP
Cadmium	0.025	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.13	ug/ml	0.02	ICP
Cobalt	0.19	ug/ml	0.02	ICP
Chromium	1.14	ug/ml	0.02	ICP
Potassium	99.94	ug/ml	0.10	ICP
Zinc	8.12	ug/ml	0.02	ICP
Mercury	0.048	ug/ml	0.001	EPA 7471 *
Nickel	0.47	ug/ml	0.02	ICP
Lead	0.26	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.08	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	3.10	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

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C25232-70013

REPORT NO.
C25232-70013

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 2 / 4

PROJECT NO:
PO#:
LAB NUMBER:2327020
SAMPLE ID:PLATTSVILLE LAGOON SAMPLE 2

SAMPLE MATRIX:LIQUID
DATE SAMPLED:2025-08-20
DATE RECEIVED:2025-08-20
DATE REPORTED:2025-08-26
DATE PRINTED:2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Phosphorus (As P205)	3084.76	ug/ml	0.10	ICP
Total Potassium (As K20)	762.79	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	800	CFU/100ml	1	E3433
Nitrogen (Total)	22.9	ug/ml	1.0	Combustion
Phosphorus (Total)	1344.07	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	22.04	ug/ml	0.01	Colourimetric
Arsenic	0.15	ug/ml	0.02	EPA 6010B (mod)
Copper	3.71	ug/ml	0.02	ICP
Cadmium	0.035	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.12	ug/ml	0.02	ICP
Cobalt	0.28	ug/ml	0.02	ICP
Chromium	1.29	ug/ml	0.02	ICP
Potassium	126.65	ug/ml	0.10	ICP
Zinc	9.17	ug/ml	0.02	ICP
Mercury	0.070	ug/ml	0.001	EPA 7471 *
Nickel	0.61	ug/ml	0.02	ICP
Lead	0.42	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.08	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	4.99	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

C25232-70013

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REPORT NO.
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ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

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TO:ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN:Ryan Rohrer
Phone:519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 3 / 4

PROJECT NO:
PO#:
LAB NUMBER:2327021
SAMPLE ID:PLATTSVILLE LAGOON SAMPLE 3

SAMPLE MATRIX:LIQUID
DATE SAMPLED:2025-08-20
DATE RECEIVED:2025-08-20
DATE REPORTED:2025-08-26
DATE PRINTED:2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
E.Coli	700	CFU/100ml	1	E3433
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
Total Potassium (As K20)	375.96	ug/ml	0.10	ICP
Total Phosphorus (As P205)	2795.23	ug/ml	0.10	ICP
Nitrogen (Total)	19.2	ug/ml	1.0	Combustion
Phosphorus (Total)	1217.91	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	19.21	ug/ml	0.01	Colourimetric
Arsenic	0.14	ug/ml	0.02	EPA 6010B (mod)
Copper	2.61	ug/ml	0.02	ICP
Cadmium	0.012	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.14	ug/ml	0.02	ICP
Cobalt	0.13	ug/ml	0.02	ICP
Chromium	0.59	ug/ml	0.02	ICP
Potassium	62.42	ug/ml	0.10	ICP
Zinc	5.09	ug/ml	0.02	ICP
Mercury	0.034	ug/ml	0.001	EPA 7471 *
Nickel	0.31	ug/ml	0.02	ICP
Lead	BDL	ug/ml	0.01	EPA 6010B(mod)
Selenium	0.14	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	3.34	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

C25232-70013

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REPORT NO.
C25232-70013

ACCOUNT NUMBER
06851

A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO: ENVIROLAND SERVICES INC
3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN: Ryan Rohrer

Phone: 519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 4 / 4

PROJECT NO:
PO#:
LAB NUMBER: 2327022
SAMPLE ID: PLATTSVILLE LAGOON SAMPLE 4

SAMPLE MATRIX: LIQUID
DATE SAMPLED: 2025-08-20
DATE RECEIVED: 2025-08-20
DATE REPORTED: 2025-08-26
DATE PRINTED: 2025-08-27

PARAMETER	RESULT	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Potassium (As K20)	688.12	ug/ml	0.10	ICP
Total Phosphorus (As P205)	5070.76	ug/ml	0.10	ICP
Nitrate-N+Nitrite-N	BDL	ug/ml	1.0	Automated Colourimetric
E.Coli	300	CFU/100ml	1	E3433
Nitrogen (Total)	28.4	ug/ml	1.0	Combustion
Phosphorus (Total)	2209.39	ug/ml	0.10	ICP
Ammonia (NH3/NH4-N)	28.43	ug/ml	0.01	Colourimetric
Arsenic	0.21	ug/ml	0.02	EPA 6010B (mod)
Copper	6.02	ug/ml	0.02	ICP
Cadmium	0.029	ug/ml	0.005	EPA 6010B(mod)
Molybdenum	0.18	ug/ml	0.02	ICP
Cobalt	0.28	ug/ml	0.02	ICP
Chromium	1.17	ug/ml	0.02	ICP
Potassium	114.25	ug/ml	0.10	ICP
Zinc	10.25	ug/ml	0.02	ICP
Mercury	0.081	ug/ml	0.001	EPA 7471 *
Nickel	0.73	ug/ml	0.02	ICP
Lead	0.24	ug/ml	0.01	EPA 6010B(mod)
Selenium	BDL	ug/ml	0.02	EPA 3050/6010 (mod) *
Total Solids	6.76	%	0.10	Gravimetric

Results reported on a as is basis

* - accredited test

BDL - Below detectable levels

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.

Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

C25232-70013

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REPORT NO.
C25245-70013

A & L Canada Laboratories Inc.



ACCOUNT NUMBER
06851

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3 NORTH COURT E
NORWICH, ON N0J 1P0

ATTN: Ryan Rohrer
Phone: 519-532-3269

CERTIFICATE OF ANALYSIS

PAGE: 1 / 1

PROJECT NO:

SAMPLE MATRIX: BIOSOLID
DATE SAMPLED: NONE GIVEN
DATE RECEIVED: 2025-09-02
DATE REPORTED:
DATE PRINTED: 2025-09-10

PO#:

LAB NUMBER: 2457036
SAMPLE ID: PLATTSVILLE LAGOON 3

PARAMETER	Result Dry Weight	Result As Received	UNIT	DETECTION LIMIT	METHOD REFERENCE
Total Solids (as received)		5.62	%	0.10	Gravimetric
Heavy Metals					
Arsenic	2	BDL .1124	ug/g	1	EPA 3050B/6010B(mod) *
Cadmium	BDL	BDL .0562	ug/g	1.00	EPA 3050B/6010B(mod) *
Chromium	13.65	BDL .7671	ug/g	1.00	EPA 3050B/6010 (mod) *
Cobalt	2.00	BDL .1124	ug/g	1.00	EPA 3050B/6010 (mod) *
Copper	116.49	6.55 .65767	ug/g	1.00	EPA 3050B/6010 (mod)*
Lead	BDL	BDL .0562	ug/g	1	EPA 3050B/6010B(mod) *
Mercury	BDL	BDL .0056	ug/g	0.1	EPA 7471 *
Molybdenum	6.0	BDL .3372	ug/g	1.0	EPA 3050B/6010 (mod)*
Nickel	7.16	BDL .4024	ug/g	1.00	EPA 3050B/6010 (mod) *
Selenium	BDL	BDL .0562	ug/g	1.00	EPA 3050B/6010 (mod) *
Zinc	167.98	9.44	ug/g	1.00	EPA 3050B/6010 (mod)*
Metals					
Potassium (Total)	0.10	BDL .0056	%	0.01	ICP
Phosphorus (Total)	1.40	0.08	%	0.01	ICP *
Total Potassium (as K2O)	0.12	BDL	%	0.05	ICP
Total Phosphorus (as P2O5)	3.21	0.18	%	0.05	ICP
Nitrogen & Carbon					
Nitrogen (Total)	1.37	BDL .0770	%	0.10	Combustion
Ammonia (NH3/NH4-N)	1730.78	97.27	ug/g	.01	Colourimetric
Additional Parameters					
NO3/NO2 - N	9.32	BDL	ug/g	1.00	Automated Colourimetric
E. Coli	4449	250	CFU/g dry	10	E3433

* - accredited test

BDL - Below detectable levels

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Results Authorized By:

Haifeng Song, Ph.D., C.Chem. Lab Director

C25245-70013

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