Pharmaceuticals and Endocrine Active Chemicals in Minnesota Lakes

Minnesota Pollution Control Agency

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Contributors/acknowledgements

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Glossary of terms

mg/L = milligrams per liter, or parts per million (ppm)

µg/L = micrograms per liter, or parts per billion (ppb)

ng/L = nanograms per liter, or parts per trillion (ppt)

EAC	Endocrine active chemical
PPCPs	Pharmaceuticals and personal care products

hands" routine. This ensured that the person responsible for taking the surface water sample was in contact only with the sampling bottle and minimized the risk for cross-contamination of the sample. Bottles were re-sealed in the plastic bags, chilled, and shipped overnight to the laboratory (Axys Analytical Laboratory, Vancouver, BC) for chemical analysis. Water samples were extracted at the lab within seven days of sample collection. Analysis of 125 chemicals included 97 pharmaceuticals, the personal care products DEET (insect repellant) and triclosan, four alkylphenol and alkylphenol ethoxylates, 19 hormones, and the illicit drug cocaine and its metabolite benzoylecgonine (Table 1). Cocaine and benzoylecgonine were not initially targeted for analysis in this study. However, they were analyzed due to their coincidental inclusion as analytes within a broader suite of chemicals that were all extracted and analyzed by the same method in the laboratory.

Table 1 Chemicals analyzed in surface water for this study.

Alkylphenols		
4-Nonylphenol diethoxylates		
4-Nonylphenol monoethoxylates		
4-Nonylphenols		
Octylphenol		
Personal Care Products		
DEET		
Triclosan		
Illicit Drugs		
Cocaine		
Benzoylecgonine		
Hormones		
17 alpha-Dihydroequilin		
17 alpha-Estradiol		
17 alpha-Ethinyl-Estradiol		
17 beta-Estradiol		
Allyl Trenbolone		
Androstenedione		
Androsterone		
Desogestrel		
Equilenin		
Equilin		
Estriol		
Estrone		
Mestranol		
Norethindrone		
Norgestrel		
Progesterone		
Testosterone		
Trenbolone		
Trenbolone acetate		
Pharmaceuticals/Medications		
1,7-Dimethylxanthine	Glipizide	Sulfathiazole
10-Hydroxy-amitriptyline	Glyburide	Tetracycline [TC]
2-Hydroxy-ibuprofen	Hydrochlorothiazide	Theophylline

4-Epianhydrochlortetracycline [EACTC]
4-Epianhydrotetracycline [EATC]
4-Epichlortetracycline [ECTC]
4-Epioxytetracycline [EOTC]
4-Epitetracycline [ETC]
Acetaminophen
Alprazolam
Amitriptyline
Amlodipine
Anhydrochlortetracycline [ACTC]
Anhydrotetracycline [ATC]
Azithromycin
Benztropine
Betamethasone
Caffeine
Carbadox
Carbamazepine
Cefotaxime
Chlortetracycline [CTC]
Ciprofloxacin
Clarithromycin
Clinafloxacin
Cloxacillin
Dehydronifedipine
Demeclocycline
Desmethyldiltiazem
Diazepam
Digoxigenin
Digoxin
Diltiazem
Diphenhydramine
Doxycycline
Enrofloxacin
Erythromycin-H2O
Flumequine
Fluocinonide
Fluoxetine
Fluticasone propionate
Furosemide
Gemfibrozil
Hydrocortisone
Ibuprofen
Isochlortetracycline [ICTC]
Lincomycin
Lomefloxacin
Meprobamate
Methylprednisolone
Metoprolol
Miconazole
Minocycline
Naproxen
Norfloxacin
Norfluoxetine
Norgestimate
Norverapamil
Ofloxacin
Ormetoprim
Oxacillin
Oxolinic Acid
Oxytetracycline [OTC]
Paroxetine
Penicillin G
Penicillin V
Prednisolone
Prednisone
Promethazine
Propoxyphene
Propranolol
Roxithromycin
Sarafloxacin
Sertraline
Simvastatin
Sulfachloropyridazine
Sulfadiazine
Sulfadimethoxine
Sulfamerazine
Sulfamethazine
Sulfamethizole
Sulfamethoxazole
Sulfanilamide
Thiabendazole
Triclocarban
Trimethoprim
Tylosin
Valsartan
Verapamil
Virginiamycin
Warfarin

Other

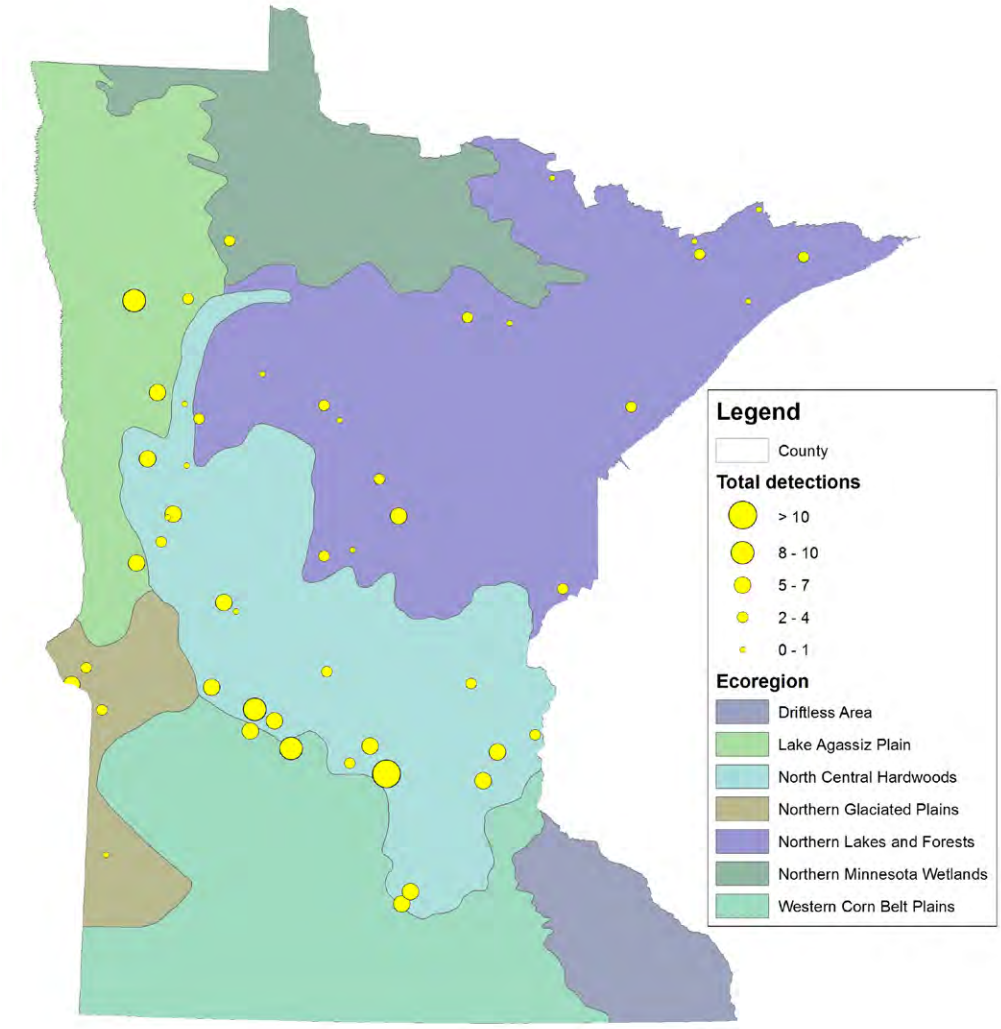
Bisphenol A

Results

Frequency of detection

Forty-seven of the fifty lakes sampled for this study contained at least one chemical in Table 1. The maximum number of detections was 13 for one lake – South Lake (MN 118), which currently receives treated domestic wastewater. The average number of chemical detections per lake was 3.7 (Figure 2). Thirty percent (38 of the 125) of the chemicals analyzed were found in the lakes selected for this study. The insect repellant DEET was the most common contaminant detected, occurring in 76 percent of the lakes, with a maximum concentration of 125 ng/L (Figure 3). Bisphenol A was discovered in 43 percent of the lakes. Cocaine was discovered in 32 percent of the lakes, followed by androstenedione in 30 percent of the samples. Carbadox, amitriptyline, and the cocaine metabolite benzoylecgonine were all found in 28 percent of the lakes. Caffeine was detected in 16 percent of the lake samples, and the disinfectant triclosan was found in 14 percent of the lakes (Figure 2). Together, the ten most frequently detected chemicals comprised 73 percent of the total detections in this study. Table 3 lists the highest concentrations detected for each chemical analyzed in this investigation.

Figure 2 State map showing the magnitude of chemical detections by sampling location.



Steroid hormones

The steroid hormones androstenedione, androsterone, testosterone, progesterone, and estrone were all detected in lake water samples. These are either naturally occurring or of anthropogenic origin. Mestranol, a synthetic contraceptive, was detected in one lake at 71.7 ng/L.

Alkylphenols

The endocrine active chemicals nonylphenol and octylphenol, breakdown products of commonly used alkylphenol ethoxylate detergents, were detected in 10 percent and 4 percent of the lakes that were sampled, respectively. Nonylphenol was detected up to 20.1 ng/L, whereas the maximum concentration of octylphenol was 3.8 ng/L.

Table 3 Maximum concentrations of analytes that were detected in this study.

Chemical	Maximum detected (ng/L)
Alkylphenols	
4-Nonylphenol diethoxylate	5
4-Nonylphenol monoethoxylate	0
4-Nonylphenol	0
Octylphenol	2
Personal Care Products	
DEET	125
Triclosan	11.8
Illicit Drugs	
Cocaine	5.3
Benzoylecgonine	9.5
Hormones	
17 alpha-Dihydroequilin	ND
17 alpha-Estradiol	ND
17 alpha-Ethinyl-Estradiol	ND
17 beta-Estradiol	ND
Allyl Trenbolone	1.1
Androstenedione	7.5
Androsterone	406
Desogestrel	ND
Equilenin	ND
Equilin	ND
Estriol	ND
Estrone	15.5
Mestranol	71.7

Norethindrone	ND
Norgestrel	ND
Progesterone	1
Testosterone	4.1
Trenbolone	ND
Trenbolone acetate	ND
Pharmaceuticals/Medications	
1,7-Dimethylxanthine	ND
10-Hydroxy-amitriptyline	ND
2-Hydroxy-ibuprofen	ND
4-Epianhydrochlortetracycline [EACTC]	ND
4-Epianhydrotetracycline [EATC]	ND
4-Epichlortetracycline [ECTC]	ND
4-Epioxytetracycline [EOTC]	ND
4-Epitetracycline [ETC]	ND
Acetaminophen	ND
Alprazolam	0.4
Amitriptyline	4.1
Amlodipine	ND
Anhydrochlortetracycline [ACTC]	ND
Anhydrotetracycline [ATC]	ND
Azithromycin	ND
Benztropine	0.7
Betamethasone	ND
Caffeine	42.9
Carbadox	121
Carbamazepine	36.7
Cefotaxime	ND
Chlortetracycline [CTC]	ND
Ciprofloxacin	19.4
Clarithromycin	ND
Clinafloxacin	ND
Cloxacillin	ND
Dehydronifedipine	1.6
Demeclocycline	ND
Desmethyldiltiazem	ND
Diazepam	ND

Pharmaceuticals/Medications	
Digoxigenin	ND
Digoxin	ND
Diltiazem	ND
Diphenhydramine	1.1
Doxycycline	ND
Enrofloxacin	ND
Erythromycin-H2O	ND
Flumequine	ND
Fluocinonide	ND
Fluoxetine	4.5
Fluticasone propionate	ND
Furosemide	ND
Gemfibrozil	13.2
Glipizide	ND
Glyburide	ND
Hydrochlorothiazide	ND
Hydrocortisone	ND
Ibuprofen	ND
Isochlortetracycline [ICTC]	ND
Lincomycin	ND
Lomefloxacin	ND
Meprobamate	29.4
Methylprednisolone	ND
Metoprolol	ND
Miconazole	ND
Minocycline	ND
Naproxen	ND
Norfloxacin	ND
Norfluoxetine	ND
Norgestimate	ND
Norverapamil	0.2
Ofloxacin	8.9
Ormetoprim	ND
Oxacillin	ND
Oxolinic Acid	ND
Oxytetracycline [OTC]	ND

Pharmaceuticals/Medications	
Paroxetine	ND
Penicillin G	ND
Penicillin V	ND
Prednisolone	ND
Prednisone	ND
Promethazine	ND
Propoxyphene	ND
Propranolol	ND
Roxithromycin	ND
Sarafloxacin	ND
Sertraline	ND
Simvastatin	ND
Sulfachloropyridazine	ND
Sulfadiazine	ND
Sulfadimethoxine	3.5
Sulfamerazine	12.5
Sulfamethazine	134
Sulfamethizole	2.5
Sulfamethoxazole	57.1
Sulfanilamide	ND
Sulfathiazole	32.8
Tetracycline [TC]	ND
Theophylline	90.6
Thiabendazole	4
Triclocarban	ND
Trimethoprim	6.2
Tylosin	ND
Valsartan	5
Verapamil	ND
Virginiamycin	ND
Warfarin	ND
Other	
Bisphenol A	14.9

Appendix A

Descriptions of chemicals that were analyzed in this study by category.

Alkylphenols	
4-Nonylphenol diethoxylate	Nonionic detergent
4-Nonylphenol monoethoxylate	Nonionic detergent
4-Nonylphenol	An alkylphenol; breakdown product of nonylphenol ethoxylate detergents
Octylphenol	An alkylphenol; breakdown product of octylphenol ethoxylate detergents
Personal Care Products	
DEET	Pesticide; insect repellant
Triclosan	Disinfectant
Illicit Drugs	
Cocaine	
Benzoylecgonine	Metabolite of cocaine
Hormones	
17 alpha-Dihydroequilin	
17 alpha-Estradiol	A female estrogenic hormone
17 alpha-Ethinyl-Estradiol	Synthetic oral contraceptive in birth control prescriptions
17 beta-Estradiol	One of three naturally occurring estrogens
Allyl Trenbolone	Steroid hormone used to increase muscle mass in livestock
Androstenedione	Precursor to estrogen and testosterone
Androsterone	A steroid hormone with weak androgenic activity
Desogestrel	A hormone used as an oral contraceptive
Equilenin	An estrogen used in hormone replacement therapy
Equilin	An estrogen used in hormone replacement therapy
Estriol	One of three naturally occurring estrogens
Estrone	One of three naturally occurring estrogens
Mestranol	An estrogen used in oral contraceptives and converted to ethinylestradiol
Norethindrone	Progestogen used in oral contraceptives
Norgestrel	A progestin used in contraceptives
Progesterone	A female steroid hormone
Testosterone	A male hormone and anabolic steroid
Trenbolone	Steroid hormone used to increase muscle mass in livestock
Trenbolone acetate	Steroid hormone used to increase muscle mass in livestock

Pharmaceuticals/Medications	
1,7-Dimethylxanthine	Metabolite of caffeine
10-Hydroxy-amitriptyline	Metabolite of amitriptyline
2-Hydroxy-ibuprofen	Metabolite of ibuprofen
4-Epianhydrochlortetracycline [EACTC]	Degradation product of the antibiotic chlortetracycline
4-Epianhydrotetracycline [EATC]	Degradation product of the antibiotic tetracycline
4-Epichlortetracycline [ECTC]	Degradation product of the antibiotic chlortetracycline
4-Epioxytetracycline [EOTC]	Degradation product of the antibiotic oxytetracycline
4-Epitetracycline [ETC]	Degradation product of the antibiotic tetracycline
Acetaminophen	A common analgesic
Alprazolam	A sedative and muscle relaxant
Amitriptyline	An antidepressant
Amlodipine	Blood pressure medication
Anhydrochlortetracycline [ACTC]	Degradation product of the antibiotic tetracycline
Anhydrotetracycline [ATC]	Degradation product of the antibiotic tetracycline
Azithromycin	Antibiotic
Benztropine	Anticholinergic used to treat Parkinson's disease
Betamethasone	Anti-inflammatory steroid
Caffeine	Stimulant
Carbadox	Antibiotic used in rearing swine
Carbamazepine	Anticonvulsive used to treat epilepsy and attention deficit hyperactivity disorder (ADHD)
Cefotaxime	An antibiotic
Chlortetracycline [CTC]	An antibiotic
Ciprofloxacin	An antibiotic
Clarithromycin	An antibiotic
Clinafloxacin	An antibiotic
Cloxacillin	An antibiotic
Dehydronifedipine	Metabolite of nifedipine, a blood pressure medication
Demeclocycline	A tetracycline-related antibiotic
Desmethyldiltiazem	A metabolite of diltiazem
Diazepam	Anti-anxiety medication; sedative
Digoxigenin	A plant-derived steroid used as a probe in molecular biology
Digoxin	Heart medication
Diltiazem	Heart medication
Diphenhydramine	Antihistamine
Doxycycline	An antibiotic
Enrofloxacin	A veterinary antibiotic

Erythromycin-H2O	An antibiotic
Flumequine	An antibiotic
Fluocinonide	Anti-inflammatory steroid
Fluoxetine	Antidepressant
Fluticasone propionate	Steroid medication for asthma
Furosemide	Medication used to treat high blood pressure and edema
Gemfibrozil	Lipid regulator
Glipizide	anti-diabetic drug
Glyburide	anti-diabetic drug
Hydrochlorothiazide	A diuretic
Hydrocortisone	A steroid hormone
Ibuprofen	A common analgesic
Isochlortetracycline [ICTC]	Degradation product of the antibiotic chlortetracycline
Lincomycin	An antibiotic
Lomefloxacin	An antibiotic
Meprobamate	Anti-anxiety medication; sedative
Methylprednisolone	Anti-inflammatory steroid
Metoprolol	Blood pressure medication
Miconazole	Topical antifungal medication
Minocycline	A tetracycline-related antibiotic
Naproxen	An analgesic
Norfloxacin	A seldom used antibiotic
Norfluoxetine	An antidepressant
Norgestimate	A hormone used in oral contraceptives
Norverapamil	Blood pressure medication
Ofloxacin	An antibiotic
Ormetoprim	An antibiotic used together with sulfonamides
Oxacillin	An antibiotic
Oxolinic Acid	An antibiotic
Oxytetracycline [OTC]	An antibiotic
Paroxetine	An antidepressant
Penicillin G	An antibiotic
Penicillin V	An antibiotic
Prednisolone	An anti-inflammatory corticosteroid and active metabolite of prednisone
Prednisone	An anti-inflammatory corticosteroid
Promethazine	An antihistamine
Propoxyphene	An analgesic

Propranolol	Sedative and blood pressure medication
Roxithromycin	An antibiotic
Sarafloxacin	An antibiotic
Sertraline	An antidepressant
Simvastatin	Lipid regulator
Sulfachloropyridazine	One of several sulfonamide antibiotics
Sulfadiazine	One of several sulfonamide antibiotics
Sulfadimethoxine	One of several sulfonamide antibiotics
Sulfamerazine	One of several sulfonamide antibiotics
Sulfamethazine	One of several sulfonamide antibiotics
Sulfamethizole	One of several sulfonamide antibiotics
Sulfamethoxazole	One of several sulfonamide antibiotics
Sulfanilamide	One of several sulfonamide antibiotics
Sulfathiazole	One of several sulfonamide antibiotics
Tetracycline [TC]	An antibiotic
Theophylline	Asthma medication
Thiabendazole	A fungicide
Triclocarban	Disinfectant
Trimethoprim	An antibiotic used together with sulfonamides
Tylosin	An antibiotic
Valsartan	Blood pressure medication
Verapamil	Medication for high blood pressure and migraines
Virginiamycin	An antibiotic
Warfarin	Blood thinner

Other	
Bisphenol A	Material to make polycarbonate plastic and other uses

Appendix B

Analytical Data Tables

Table 1: Alkylphenols and alkylphenol ethoxylates

Table 2: Triclosan and bisphenol A

Tables 3-4: Hormones

Tables 5-8: Pharmaceuticals

Table 9: GPS coordinates of the lakes included in this study

Data flags for analytical data in Appendix B.

B	**Analyte found in sample and the associated blank**
D	**Dilution data**
E	**Exceeds calibrated linear range, see dilution data**
H	**Data provided for information only**
K	**Peak detected but did not meet quantification criteria, result reported represent the estimated maximum possible concentration**
MAX	**Concentration is a maximum estimated value**
N	**Analyte recovery is not within method control limits in the OPR**
NQ	**Data not quantifiable**
TIC	**Compound identity and concentration are estimated**
U	**Identifies a compound that was not detected**
V	**Surrogate recovery is not within method control limits**
X	**Results reported separately**

Sample ID suffices:

i	**Instrumental re-analysis performed on the sample extract**
N	**A dilution of the sample extract followed by instrumental re-analysis**
R	**Repeat analysis using a fresh aliquot of sample**

Table 1 Alkylphenols

Lake number	Lake name	4-Nonylphenols (ng/L)	4-Nonylphenol monoethoxylates (ng/L)	4-Nonylphenol diethoxylates (ng/L)	Octylphenol (ng/L)
NLA12_MN-101	Long	< 3.74	< 3.34	< 4.84	< 1.49
NLA12_MN-102	Spring	B 15.4	< 5.55	< 2.55	< 0.970
NLA12_MN-103	Lookout	10.5	< 4.97	< 2.37	< 0.949
NLA12_MN-104	Fairy	< 3.53	< 6.41	< 5.95	< 2.44
NLA12_MN-105	Becoosin	B 25.7	< 11.8	< 6.97	< 1.35
NLA12_MN-106	Darling	18.5	< 6.79	< 6.03	< 1.30
NLA12_MN-106 Duplicate		20.1	< 8.74	< 2.91	< 0.859
NLA12_MN-107	Cokato	B 24.0	< 8.19	< 6.10	< 2.15
NLA12_MN-108	Long	B 20.5	< 6.13	< 4.56	< 1.35
NLA12_MN-109	Richey	< 7.02	< 8.08	< 4.68	< 2.60
NLA12_MN-110	Crow Wing	< 6.25	< 7.95	< 7.51	< 1.23
NLA12_MN-111	Snail	B 12.3	< 5.65	< 6.05	< 1.42
NLA12_MN-112	Eagle	< 5.41	< 13.2	< 4.38	< 3.17
NLA12_MN-113	North Ash	B 432	< 15.5	< 8.12	< 2.47
NLA12_MN-114	Woodcock	< 7.61	< 6.26	< 4.19	< 1.36
NLA12_MN-115	Round	< 4.49	< 12.3	< 2.11	< 2.43
NLA12_MN-115 duplicate		< 5.25	< 9.19	< 5.83	< 2.07
NLA12_MN-116	Nokomis	< 4.20	< 6.24	< 5.52	< 1.28
NLA12_MN-118 *	South	B 12.0	< 29.7	< 5.31	< 2.35
NLA12_MN-119	Big Stone	4.59	< 4.85	< 5.53	< 1.85
NLA12_MN-120	Flat	B 26.1	< 6.73	< 7.40	< 2.05
NLA12_MN-121	Norway	< 5.31	< 15.5	< 6.46	< 2.31
NLA12_MN-122	Jennie	B 14.2	< 7.68	< 4.74	< 1.42
NLA12_MN-123	unnamed	B 346	< 10.9	< 9.66	< 2.28
NLA12_MN-123 Duplicate		B 404	< 11.2	< 7.66	< 3.74
NLA12_MN-126	Diamond	< 4.71	< 8.50	< 5.53	< 1.96
NLA12_MN-127	unnamed	12.2	< 8.31	< 3.16	< 2.37
NLA12_MN-130A	Net	B 23.5	< 10.7	< 4.53	< 1.89
NLA12_MN-131	unnamed	< 5.36	< 8.77	< 6.05	< 2.41
NLA12_MN-132	Clear	B 14.6	< 3.76	< 3.92	< 1.33
NLA12_MN-135	Lindgren	B 224	< 8.48	< 7.63	< 2.57
NLA12_MN-136	unnamed	B 24.3	< 6.49	< 7.28	< 0.686
NLA12_MN-136 Blank		B 39.7	< 10.6	< 5.59	< 1.43
NLA12_MN-137	Cucumber	B 36.5	< 17.4	< 8.65	< 3.13
NLA12_MN-138A	Tenor	B 16.1	< 7.35	< 6.67	< 1.61
NLA12_MN-141	East Red River	< 4.18	< 8.73	< 6.87	< 1.60

Lake number	Lake name	4-Nonylphenols (ng/L)	4-Nonylphenol monoethoxylates (ng/L)	4-Nonylphenol diethoxylates (ng/L)	Octylphenol (ng/L)
NLA12_MN-143	unnamed	< 8.18	< 6.87	< 5.40	< 1.83
NLA12_MN-144	unnamed	B 32.0	< 6.39	< 6.08	< 0.906
NLA12_MN-145	Terrapin	B 22.8	< 3.05	< 4.25	< 1.27
NLA12_MN-147	Wilbur	B 2.45	< 4.69	< 23.4	< 0.815
NLA12_MN-150	Spree	B 16.2	< 9.63	< 6.81	< 1.96
NLA12_MN-152	61-0091	B 188	< 10.4	< 3.30	< 1.97
NLA12_MN-153	Bear	B 344	< 9.50	< 5.25	< 2.12
NLA12_MN-157	Glorvigan	< 4.78	< 10.0	< 6.03	< 1.76
NLA12_MN-158	unnamed	< 11.7	< 16.5	< 6.86	< 2.65
NLA12_MN-158 Blank		B 25.0	< 4.01	< 5.41	< 1.10
NLA12_MN-160	unnamed	B 231	< 7.38	< 7.11	< 2.05
NLA12_MN-162	Waymier	< 12.5	< 17.1	< 5.71	< 4.58
NLA12_MN-163	unnamed	B 22.6	< 10.1	< 4.38	< 2.35
NLA12_MN-167	unnamed	< 11.8	< 10.0	< 6.57	< 4.43
NLA12_MN-170A	unnamed	B 32.5	< 5.01	< 5.60	3.76
NLA12_MN-171	unnamed	B 20.6	< 5.55	< 5.02	< 1.71
NLA12_MN-171 Blank		B 41.0	< 3.97	< 5.11	< 1.03
NLA12_MN-177	unnamed	B 188	< 8.08	< 12.3	2.91
NLA12_MN-181	unnamed	< 3.86	< 12.2	< 11.2	< 1.97
NLA12_MN-206	unnamed	B 25.3	< 6.69	< 6.58	< 1.58

* Currently receives treated domestic wastewater.

Table 2 Triclosan and Bisphenol A

Lake number	Lake name	Triclosan (ng/L)	Bisphenol A (ng/L)
NLA12_MN-101	Long	4.75	14.9
NLA12_MN-102	Spring	< 6.21	B 4.86
NLA12_MN-106	Darling	< 4.75	4.72
NLA12_MN-107	Cokato	< 4.83	B 4.31
NLA12_MN-109	Richey	< 5.03	< 2.60
NLA12_MN-110	Crow Wing	< 5.05	< 1.99
NLA12_MN-111	Snail	< 4.77	B 3.54
NLA12_MN-112	Eagle	11.8	< 2.07
NLA12_MN-115	Round	< 5.43	< 1.67
NLA12_MN-115 duplicate		< 4.93	< 1.96
NLA12_MN-116	Nokomis	6.23	2.24
NLA12_MN-119	Big Stone	< 4.68	3.37
NLA12_MN-120	Flat	< 8.87	B 2.18
NLA12_MN-121	Norway	< 4.87	2.92
NLA12_MN-122	Jennie	< 4.27	B 5.36
NLA12_MN-131	unnamed	< 4.82	4.23
NLA12_MN-143	unnamed	< 5.08	2.58
NLA12_MN-144	unnamed	< 5.15	B 7.85
NLA12_MN-145	Terrapin	< 4.01	B 2.27
NLA12_MN-147	Wilbur	< 5.00	2.82
NLA12_MN-162	Waymier	< 5.11	< 2.40
NLA12_MN-163	unnamed	< 6.12	B 2.10
NLA12_MN-167	unnamed	< 4.70	1.67

Table 3 Hormones – Positive

Lake number	Lake name	Allyl Trenbolone (ng/L)	Androstenedione (ng/L)	Androsterone (ng/L)	Desogestrel (ng/L)	Estriol (ng/L)	Mestranol (ng/L)	Norethindrone (ng/L)	Norgestrel (ng/L)	Progesterone (ng/L)	Testosterone (ng/L)
NLA12_MN-101	Long	< 0.791	< 1.93	< 19.8	< 116	< 331	K 39.2	< 4.54	< 3.86	< 0.772	< 1.80
NLA12_MN-102	Spring	< 1.07	2.29	< 55.6	B 413	< 15.5	K B 136	< 3.88	< 5.25	0.989	< 1.22
NLA12_MN-103	Lookout	< 0.815	< 1.99	< 40.9	< 119	< 31.8	< 60.5	< 5.87	< 4.87	< 0.795	< 0.795
NLA12_MN-104	Fairy	< 0.828	2.2	< 24.9	< 60.6	< 32.3	K B 75.5	< 4.04	< 4.04	< 0.928	< 1.51
NLA12_MN-105	Becoosin	< 1.66	< 2.02	406	B 719	< 16.0	K B 226	< 4.01	< 5.42	< 1.42	< 2.15
NLA12_MN-106	Darling	< 0.864	< 2.11	< 43.3	< 126	< 33.7	< 26.9	< 5.05	< 4.35	< 0.843	< 0.843
NLA12_MN-106 Duplicate		< 0.854	< 2.08	< 42.8	< 125	< 33.3	< 33.3	< 4.44	< 4.17	< 0.833	< 0.833
NLA12_MN-107	Cokato	< 0.867	2.2	72.7	B 165	< 15.8	K B 499	< 3.96	< 4.73	< 0.838	< 1.39
NLA12_MN-108	Long	< 0.964	2.62	< 54.3	B 380	< 15.2	K B 107	< 3.81	< 4.50	< 0.762	< 1.22
NLA12_MN-109	Richey	< 1.19	< 2.57	< 79.5	< 571	< 526	< 82.3	< 9.12	< 3.92	< 1.26	< 2.99
NLA12_MN-110	Crow Wing	< 1.05	< 2.28	< 63.8	< 267	< 33.3	71.7	< 6.94	< 4.16	< 1.17	< 3.22
NLA12_MN-111	Snail	< 1.69	3.41	< 66.9	B 431	< 15.7	K B 169	< 3.92	< 5.40	< 0.783	2.12
NLA12_MN-112	Eagle	< 0.850	< 2.55	< 42.6	< 124	< 33.2	< 56.1	< 6.81	< 5.44	< 0.829	< 0.829
NLA12_MN-113	North Ash	< 0.797	< 2.03	< 20.0	< 117	< 485	K 306	< 3.89	< 4.65	< 1.18	< 0.777
NLA12_MN-114	Woodcock	< 0.827	4.64	< 79.0	TIC 276	< 451	K B D 20000	< 8.51	< 4.00	< 0.801	4.11
NLA12_MN-115	Round	< 0.836	< 2.04	< 41.9	< 122	< 32.6	< 24.9	< 4.08	< 4.71	< 0.815	1.98
NLA12_MN-115 duplicate		< 0.825	< 2.01	< 41.4	< 121	< 32.2	< 26.0	< 4.67	< 4.02	< 0.805	< 0.805
NLA12_MN-116	Nokomis	< 0.800	< 1.95	< 20.1	< 117	< 359	K 41.2	< 5.64	< 5.89	< 1.11	< 4.48
NLA12_MN-118*	South	< 1.80	7.48	< 139	< 968	< 15.7	K B 110	< 3.94	< 6.23	< 0.930	< 2.19
NLA12_MN-119	Big Stone	< 0.826	< 2.02	< 32.6	< 60.5	< 32.2	K B 581	< 4.03	< 4.03	< 1.04	< 2.24
NLA12_MN-120	Flat	< 1.07	4.47	< 52.1	B 380	< 16.0	K B 75.4	< 4.00	< 5.42	< 0.827	< 1.39
NLA12_MN-121	Norway	< 0.823	4.18	< 45.5	< 60.2	< 32.1	K B 200	< 4.31	< 4.02	< 0.803	< 2.80
NLA12_MN-122	Jennie	< 1.34	2.39	< 42.8	B 241	< 15.7	K B 77.9	< 3.93	< 3.93	< 0.786	< 1.25
NLA12_MN-123	unnamed	< 0.791	< 1.93	< 19.8	< 116	< 298	K 155	< 4.17	< 3.86	< 0.771	< 0.771
NLA12_MN-123 Duplicate		< 0.804	< 1.96	< 65.0	< 118	< 230	K 253	< 3.92	< 3.92	< 0.784	< 0.784
NLA12_MN-126	Diamond	< 1.33	< 2.48	< 87.4	< 403	< 31.3	< 49.0	< 8.54	< 4.32	< 0.933	< 3.57
NLA12_MN-127	unnamed	< 0.807	< 2.12	< 74.4	TIC 288	< 329	K B 3340	< 5.03	< 3.94	< 0.788	< 2.63
NLA12_MN-130A	Net	< 1.29	< 1.99	< 65.2	B 340	< 15.9	K B 145	< 3.97	< 5.02	< 0.794	< 1.36
NLA12_MN-131	unnamed	< 0.835	3.24	< 58.6	< 61.1	< 32.6	K B 142	< 7.20	< 5.23	< 1.17	< 3.20
NLA12_MN-132	Clear	< 1.52	< 2.00	141	B 262	< 16.0	K B 135	< 4.01	< 7.69	< 1.06	< 1.57
NLA12_MN-135	Lindgren	< 0.811	< 2.68	< 40.7	< 119	< 31.6	< 43.6	< 7.35	< 6.60	0.796	< 0.791

Lake number	Lake name	Allyl Trenbolone (ng/L)	Androstenedione (ng/L)	Androsterone (ng/L)	Desogestrel (ng/L)	Estriol (ng/L)	Mestranol (ng/L)	Norethindrone (ng/L)	Norgestrel (ng/L)	Progesterone (ng/L)	Testosterone (ng/L)
NLA12_MN-136	unnamed	< 0.848	< 2.07	< 37.4	TIC 169	< 16.5	B 44.5	< 4.14	< 4.14	< 0.827	< 0.827
NLA12_MN-136 Blank		< 0.816	< 2.10	< 47.0	TIC 229	< 393	K B 410	< 4.75	< 3.98	< 0.797	< 2.31
NLA12_MN-137	Cucumber	< 1.32	7.31	129	< 712	< 15.9	K B 111	< 3.98	< 6.57	< 2.35	< 2.34
NLA12_MN-138A	Tenor	< 1.94	< 2.01	< 106	B 397	< 16.1	K B 166	< 4.02	< 12.3	< 0.943	< 1.45
NLA12_MN-141	East Red River	< 0.805	< 1.96	< 59.9	< 196	< 31.4	K 61.9	< 4.98	< 3.93	< 1.04	< 1.76
NLA12_MN-143	unnamed	< 0.815	< 2.69	< 64.5	< 59.7	< 31.8	K B 316	< 5.80	< 4.60	< 1.36	< 3.30
NLA12_MN-144	unnamed	< 0.802	2.7	< 24.4	< 123	< 15.6	K B 89.6	< 3.91	< 3.91	< 0.782	< 1.17
NLA12_MN-145	Terrapin	1.14	< 1.99	< 78.1	B 375	< 299	K B 150	< 3.98	< 6.25	< 1.07	< 1.50
NLA12_MN-147	Wilbur	< 0.773	< 1.89	< 36.1	< 113	< 209	K 104	< 3.92	< 6.00	< 0.850	< 1.48
NLA12_MN-150	Spree	< 1.64	< 1.97	< 158	B 336	< 15.8	K B 162	< 3.94	< 5.66	< 1.19	< 1.70
NLA12_MN-152	61-0091	< 0.837	< 2.26	< 42.0	< 122	< 32.7	< 22.9	< 4.57	< 4.63	< 0.816	< 0.816
NLA12_MN-153	Bear	< 0.777	< 1.90	< 19.5	< 114	< 272	K 102	< 5.00	< 3.82	< 1.18	< 2.13
NLA12_MN-157	Glorvigan	< 1.08	K 3.45	< 70.0	< 856	< 556	K 99.0	< 8.51	< 4.24	< 2.41	< 4.11
NLA12_MN-158	unnamed	0.987	< 2.98	< 150	TIC 468	< 534	K B 14600	< 7.85	< 4.32	< 1.34	< 4.17
NLA12_MN-158 Blank		< 0.837	< 2.04	< 29.2	TIC 184	< 16.3	B 35.1	< 4.08	< 4.08	< 0.817	< 0.817
NLA12_MN-160	unnamed	< 1.35	< 2.57	< 40.8	< 119	< 31.7	< 44.2	< 6.33	< 4.24	< 0.793	< 0.793
NLA12_MN-162	Waymier	< 0.932	< 2.63	< 34.5	< 166	< 490	< 54.4	< 6.90	< 5.48	< 0.881	< 2.15
NLA12_MN-163	unnamed	< 1.03	< 1.98	< 97.9	B 287	< 15.8	< 57.0	< 3.96	< 7.99	0.948	3.57
NLA12_MN-167	unnamed	< 0.807	< 1.97	< 40.5	< 118	< 31.5	< 39.4	< 5.40	< 4.47	< 0.788	< 0.788
NLA12_MN-170A	unnamed	< 0.794	< 2.51	< 30.8	< 123	< 323	< 19.4	< 4.01	< 3.87	< 0.774	< 1.55
NLA12_MN-171	unnamed	< 0.785	4.53	< 24.6	< 175	< 15.3	K B 113	< 3.94	< 3.83	< 0.765	< 1.96
NLA12_MN-171 Blank		< 0.804	< 1.96	< 20.2	< 70.6	< 15.7	K B 41.6	< 3.92	< 3.92	< 0.785	< 0.785
NLA12_MN-177	unnamed	< 0.847	< 3.61	< 42.5	< 124	< 33.0	< 70.6	< 10.9	< 7.86	< 0.826	< 7.30
NLA12_MN-181	unnamed	< 0.822	< 2.41	< 43.2	< 60.1	< 359	< 20.0	< 5.09	< 4.89	< 0.802	< 1.60
NLA12_MN-206	unnamed	< 1.17	3.24	< 60.8	B 527	< 15.2	K B 121	< 3.80	< 4.25	< 1.07	< 1.62
* Currently receives treated domestic wastewater.											

Table 4 Hormones – Negative

Lake number	Lake name	17 alpha-Dihydroequilin (ng/L)	Equilenin (ng/L)	Equilin (ng/L)	17 beta-Estradiol (ng/L)	17 alpha-Estradiol (ng/L)	Estrone (ng/L)	17 alpha-Ethinyl-Estradiol (ng/L)
NLA12_MN-101	Long	< 3.86	< 0.772	< 7.72	< 3.86	< 3.86	< 3.86	< 4.83
NLA12_MN-102	Spring	< 3.88	< 0.776	< 7.76	< 3.88	< 3.88	< 3.88	< 4.85
NLA12_MN-103	Lookout	< 3.98	< 0.795	< 7.95	< 3.98	< 3.98	< 3.98	< 4.97
NLA12_MN-104	Fairy	< 4.04	< 0.807	< 8.07	< 4.04	< 4.04	< 4.04	< 5.05
NLA12_MN-105	Becoosin	< 4.01	< 0.801	< 8.01	< 4.01	< 4.01	< 4.01	< 5.01
NLA12_MN-106	Darling	< 4.21	< 0.843	< 8.43	< 4.21	< 4.21	< 4.21	< 5.27
NLA12_MN-106 Duplicate		< 4.17	< 0.833	< 8.33	< 4.17	< 4.17	< 4.17	< 5.21
NLA12_MN-107	Cokato	< 3.96	< 0.792	< 7.92	< 3.96	< 3.96	< 3.96	< 4.95
NLA12_MN-108	Long	< 3.81	< 0.763	< 7.63	< 3.81	< 3.81	< 3.81	< 4.77
NLA12_MN-109	Richey	< 3.92	< 0.784	< 7.84	< 3.92	< 3.92	< 3.92	< 4.90
NLA12_MN-110	Crow Wing	< 4.16	< 0.832	< 8.32	< 4.16	< 4.16	< 4.16	< 5.20
NLA12_MN-111	Snail	< 3.92	< 0.784	< 7.84	< 3.92	< 3.92	< 3.92	< 4.90
NLA12_MN-112	Eagle	< 4.15	< 0.829	< 8.29	< 4.15	< 4.15	< 4.15	< 5.18
NLA12_MN-113	North Ash	< 3.89	< 0.777	< 7.77	< 3.89	< 3.89	< 3.89	< 4.86
NLA12_MN-114	Woodcock	< 4.00	< 0.801	< 8.01	< 4.00	< 4.00	< 4.00	< 5.64
NLA12_MN-115	Round	< 4.08	< 0.815	< 8.15	< 4.08	< 4.08	< 4.08	< 5.10
NLA12_MN-115 duplicate		< 4.02	< 0.805	< 8.05	< 4.02	< 4.02	< 4.02	< 5.03
NLA12_MN-116	Nokomis	< 3.90	< 0.781	< 7.81	< 3.90	< 3.90	< 3.90	< 4.88
NLA12_MN-118*	South	< 3.94	< 0.787	< 7.87	< 3.94	< 3.94	< 3.94	< 4.92
NLA12_MN-119	Big Stone	< 4.03	< 0.806	< 8.06	< 4.03	< 4.03	< 4.03	< 5.04
NLA12_MN-120	Flat	< 4.00	< 0.799	< 7.99	< 4.00	< 4.00	< 4.00	< 5.00
NLA12_MN-121	Norway	< 4.02	< 0.803	< 8.03	< 4.02	< 4.02	< 4.02	< 5.02
NLA12_MN-122	Jennie	< 3.93	< 0.786	< 7.86	< 3.93	< 3.93	< 3.93	< 4.91
NLA12_MN-123	unnamed	< 3.86	< 0.771	< 7.71	< 3.86	< 3.86	13.8	< 4.82
NLA12_MN-123 Duplicate		< 3.92	< 0.784	< 7.84	< 3.92	< 3.92	15.5	< 4.90
NLA12_MN-126	Diamond	< 3.92	< 0.784	< 7.84	< 3.92	< 3.92	< 3.92	< 4.90
NLA12_MN-127	unnamed	< 3.94	< 0.788	< 7.88	< 3.94	< 3.94	< 3.94	< 6.49
NLA12_MN-130A	Net	< 3.97	< 0.794	< 7.94	< 3.97	< 3.97	< 3.97	< 4.96
NLA12_MN-131	unnamed	< 4.08	< 0.815	< 8.15	< 4.08	< 4.08	< 4.08	< 5.09
NLA12_MN-132	Clear	< 4.01	< 0.802	< 8.02	< 4.01	< 4.01	< 4.01	< 5.01
NLA12_MN-135	Lindgren	< 3.95	< 0.791	< 7.91	< 3.95	< 3.95	< 3.95	< 4.94

Lake number	Lake name	17 alpha-Dihydroequilin (ng/L)	Equilenin (ng/L)	Equilin (ng/L)	17 beta-Estradiol (ng/L)	17 alpha-Estradiol (ng/L)	Estrone (ng/L)	17 alpha-Ethinyl-Estradiol (ng/L)
NLA12_MN-136	unnamed	< 4.14	< 0.827	< 8.27	< 4.14	< 4.14	< 4.14	< 5.17
NLA12_MN-136 Blank		< 3.98	< 0.797	< 7.97	< 3.98	< 3.98	< 3.98	< 4.98
NLA12_MN-137	Cucumber	< 3.98	< 0.796	< 7.96	< 3.98	< 3.98	< 3.98	< 4.98
NLA12_MN-138A	Tenor	< 4.02	< 0.804	< 8.04	< 4.02	< 4.02	< 4.02	< 5.03
NLA12_MN-141	East Red River	< 3.93	< 0.785	< 7.85	< 3.93	< 3.93	< 3.93	< 4.91
NLA12_MN-143	unnamed	< 3.98	< 0.795	< 7.95	< 3.98	< 3.98	< 3.98	< 4.97
NLA12_MN-144	unnamed	< 3.91	< 1.09	< 7.82	< 5.08	< 3.91	< 3.91	< 4.89
NLA12_MN-145	Terrapin	< 3.98	< 0.795	< 7.95	< 3.98	< 3.98	< 3.98	< 4.97
NLA12_MN-147	Wilbur	< 3.77	< 0.754	< 7.54	< 3.77	< 3.77	< 3.77	< 4.71
NLA12_MN-150	Spree	< 3.94	< 0.788	< 7.88	< 3.94	< 3.94	< 3.94	< 4.93
NLA12_MN-152	61-0091	< 4.08	< 0.816	< 8.16	< 4.08	< 4.08	< 4.08	< 5.10
NLA12_MN-153	Bear	< 3.79	< 0.758	< 7.58	< 3.79	< 3.79	< 3.79	< 4.74
NLA12_MN-157	Glorvigan	< 3.84	< 0.769	< 7.69	< 3.84	< 3.84	< 3.84	< 4.80
NLA12_MN-158	unnamed	< 3.89	< 1.11	< 7.78	< 3.89	< 3.89	< 3.89	< 4.86
NLA12_MN-158 Blank		< 4.08	< 0.817	< 8.17	< 4.08	< 4.08	< 4.08	< 5.11
NLA12_MN-160	unnamed	< 3.96	< 0.793	< 7.93	< 3.96	< 3.96	< 3.96	< 4.96
NLA12_MN-162	Waymier	< 3.96	< 0.793	< 7.93	< 3.96	< 3.96	< 3.96	< 6.63
NLA12_MN-163	unnamed	< 3.96	< 0.792	< 7.92	< 3.96	< 3.96	< 3.96	< 4.95
NLA12_MN-167	unnamed	< 3.94	< 0.788	< 7.88	< 3.94	< 3.94	< 3.94	< 4.92
NLA12_MN-170A	unnamed	< 5.94	< 0.774	< 7.74	< 3.87	< 3.87	< 3.87	< 4.84
NLA12_MN-171	unnamed	< 3.83	< 3.17	< 7.65	< 3.83	< 3.83	< 3.83	< 4.78
NLA12_MN-171 Blank		< 3.92	< 0.935	< 7.85	< 3.92	< 3.92	< 3.92	< 4.90
NLA12_MN-177	unnamed	< 4.13	< 0.826	< 8.26	< 4.13	< 4.13	< 4.13	< 5.16
NLA12_MN-181	unnamed	< 4.01	< 0.802	< 8.02	< 4.01	< 4.01	< 4.01	< 5.01
NLA12_MN-206	unnamed	< 3.80	< 0.759	< 7.59	< 3.80	< 3.80	< 3.80	< 4.74
* Currently receives treated domestic wastewater.								

Table 5 Pharmaceuticals List 1

Lake number	Lake name	Acetaminophen (ng/L)	Azithromycin (ng/L)	Caffeine (ng/L)	Carbadox (ng/L)	Carbamazepine (ng/L)	Cefotaxime (ng/L)	Ciprofloxacin (ng/L)	Clarithromycin (ng/L)	Clinafloxacin (ng/L)	Cloxacillin (ng/L)	Dehydronifedipine (ng/L)	Diphenhydramine (ng/L)	Diltiazem (ng/L)	Digoxin (ng/L)	Digoxigenin (ng/L)	Enrofloxacin (ng/L)	Erythromycin-H_2O (ng/L)	Flumequine (ng/L)	Fluoxetine (ng/L)	Lincomycin (ng/L)	Lomefloxacin (ng/L)	Miconazole (ng/L)
NLA12_MN-101	Long	< 14.5	< 4.42	< 14.5	< 6.66	< 1.45	< 70.0	< 26.1	< 1.45	< 50.9	< 2.91	< 1.43	< 0.581	< 0.345	< 5.81	< 437	< 4.00	< 2.23	< 4.73	< 1.45	< 2.91	< 13.7	< 1.45
NLA12_MN-102	Spring	< 15.0	< 2.06	< 15.0	< 9.64	< 1.50		< 11.7	< 1.50	< 47.1	< 3.00	< 0.600	< 0.600	< 0.300	< 6.00	< 38.7	< 3.00	< 2.30	< 1.72	< 1.50		< 11.9	< 1.50
NLA12_MN-103	Lookout	< 16.6	< 3.19	17.5	< 15.6	< 1.56	< 6.25	< 38.4	< 1.56	< 156	< 3.12	< 3.14	< 0.625	< 0.602	< 6.25	< 346	< 4.62	< 2.40	< 2.24	< 1.56	< 3.12	< 17.2	< 2.10
NLA12_MN-104	Fairy	< 14.8	< 2.05	< 14.8	B 7.11	< 1.48	< 29.0	< 19.6	< 1.48	< 49.1	< 2.97	< 0.593	< 0.593	< 0.851	< 5.93	< 521	< 3.71	< 2.27	< 4.86	< 1.48	< 2.97	< 12.1	< 1.48
NLA12_MN-105	Becoosin	< 15.8	< 4.01	< 15.8	< 8.83	< 1.58		< 87.1	< 1.58	< 210	< 3.16	< 1.51	< 0.632	< 0.410	< 6.32	< 489	< 6.64	< 2.42	< 2.67	< 1.58		< 31.4	< 1.58
NLA12_MN-106	Darling	< 15.9	< 2.73	23.7	< 22.6	< 1.59	< 6.37	< 12.6	< 1.59	< 56.0	< 3.19	< 1.03	< 0.637	< 0.495	< 6.37	< 435	< 3.34	< 2.44	< 2.44	< 1.59	< 3.19	< 6.11	< 1.76
NLA12_MN-106 Duplicate		< 15.7	< 4.10	< 15.7	< 11.3	< 1.57	< 6.28	< 22.1	< 1.57	< 78.2	< 3.14	< 0.764	< 0.628	< 0.598	< 6.28	< 297	< 3.49	< 2.41	< 4.46	< 1.57	< 3.14	< 10.4	< 1.57
NLA12_MN-107	Cokato	< 14.9	< 1.84	< 14.9	< 6.13	< 1.49		< 5.94	< 1.49	< 9.79	< 2.97	< 0.620	< 0.594	< 0.301	< 5.94	< 605	< 2.97	< 2.28	< 1.49	1.77		< 9.24	< 1.49
NLA12_MN-108	Long	< 14.9	< 1.49	< 14.9	< 2.57	< 1.49		< 14.5	< 1.49	< 28.9	< 2.98	< 0.595	< 0.595	< 0.298	< 5.95	< 272	< 2.98	< 2.28	< 1.49	< 1.49		< 6.83	< 1.49
NLA12_MN-109	Richey	< 15.5	< 2.96	< 15.5	< 4.68	< 1.55	< 49.8	< 42.9	< 1.55	< 17.3	< 3.10	< 1.50	< 0.620	< 0.364	< 6.20	< 6.20	< 5.31	< 2.38	< 5.03	< 1.55	< 3.10	< 7.47	< 1.79
NLA12_MN-110	Crow Wing	< 15.3	< 2.52	< 15.3	< 1.53	< 1.53	< 47.5	< 26.1	< 1.53	< 86.9	< 3.07	< 1.04	< 0.613	< 0.493	< 6.13	< 805	< 5.93	< 2.35	< 3.11	< 1.53	< 3.07	< 24.9	< 1.53
NLA12_MN-111	Snail	< 15.3	< 1.81	< 15.3	8.9	< 1.53		< 42.7	< 1.53	< 89.1	< 3.06	< 0.613	< 0.613	< 0.344	< 6.13	< 390	< 3.20	< 2.35	< 1.53	< 1.53		< 8.74	< 1.53
NLA12_MN-112	Eagle	< 15.7	< 5.06	< 15.7	62.2	< 1.57	< 6.27	< 29.5	< 1.57	< 129	< 3.14	< 5.13	< 0.627	< 0.710	< 6.48	< 377	< 5.50	< 2.40	< 5.22	< 1.57	< 3.14	< 5.89	< 2.07
NLA12_MN-113	North Ash	< 15.1	K 11.7	< 15.1	< 13.6	< 1.51	< 66.6	< 21.7	< 1.51	< 128	< 3.01	< 1.73	< 0.603	< 0.835	< 6.03	< 753	< 3.85	< 2.31	< 5.33	< 1.51	< 3.01	< 9.19	< 1.62
NLA12_MN-114	Woodcock	< 15.2	< 3.84	< 15.2	35.1	< 1.52		< 27.3	< 1.52	< 72.1	< 3.03	< 1.46	< 0.606	< 0.304	< 6.06	< 1160	< 4.62	< 2.32	< 8.34	< 1.52	< 4.02	< 14.4	< 1.56
NLA12_MN-115	Round	< 15.0	< 2.13	20.3	< 7.34	< 1.50	< 6.01	< 12.3	< 1.50	< 55.9	< 3.00	< 0.737	0.7	< 0.361	< 6.01	< 253	< 3.07	< 2.30	< 2.61	< 1.50	< 3.00	< 7.02	< 1.50
NLA12_MN-115 duplicate		< 15.6	< 2.25	23.3	< 9.60	< 1.56	< 6.23	< 10.1	< 1.56	< 42.4	< 3.11	< 0.908	1.12	< 0.393	< 6.23	< 268	< 3.11	< 2.39	< 2.55	< 1.56	< 3.11	< 9.73	< 1.56
NLA12_MN-116	Nokomis	< 14.9	< 3.26	17.4	6.51	< 1.49	< 42.0	< 17.4	< 1.49	< 42.5	< 2.97	< 1.17	< 0.594	< 0.559	< 5.94	< 319	< 3.80	< 2.28	< 2.70	< 1.49	< 2.97	< 6.63	< 1.49
NLA12_MN-118*	South	< 15.8	< 3.27	42.9	75.9	36.7		< 91.7	< 1.58	< 9.84	< 3.16	< 0.631	0.634	< 0.323	< 6.31	< 886	< 5.22	< 2.42	< 3.94	< 1.58		< 3.96	< 1.77
NLA12_MN-119	Big Stone	< 14.9	< 3.69	< 19.7	43.3	< 1.49	< 5.98	< 18.8	< 1.49	< 96.6	< 2.99	< 2.05	< 0.598	< 0.905	< 5.98	< 429	< 3.20	< 2.29	< 7.45	< 1.49	< 2.99	< 12.7	< 1.56
NLA12_MN-120	Flat	< 15.0	< 1.72	< 15.0	< 6.85	< 1.50		< 26.7	< 1.50	< 17.2	< 3.00	< 0.599	< 0.599	< 0.391	< 5.99	< 39.4	< 3.60	< 2.30	< 1.50	< 1.50		< 11.7	< 1.50
NLA12_MN-121	Norway	< 15.0	< 5.45	24.8	31.9	< 1.50	< 5.99	< 20.8	< 1.50	< 57.0	< 2.99	< 1.38	< 0.713	< 1.54	< 5.99	< 678	< 3.95	< 2.30	< 9.75	< 1.50	< 2.99	< 7.86	< 2.11
NLA12_MN-122	Jennie	< 15.9	< 1.79	< 15.9	< 9.66	< 1.59		< 6.36	< 1.59	< 48.7	< 3.18	< 0.636	< 0.636	< 0.318	< 6.36	< 315	< 3.18	< 2.44	< 3.33	4.52		< 10.6	< 1.59

Lake number	Lake name	Acetaminophen (ng/L)	Azithromycin (ng/L)	Caffeine (ng/L)	Carbadox (ng/L)	Carbamazepine (ng/L)	Cefotaxime (ng/L)	Ciprofloxacin (ng/L)	Clarithromycin (ng/L)	Clinafloxacin (ng/L)	Cloxacillin (ng/L)	Dehydronifedipine (ng/L)	Diphenhydramine (ng/L)	Diltiazem (ng/L)	Digoxin (ng/L)	Digoxigenin (ng/L)	Enrofloxacin (ng/L)	Erythromycin-H_2O (ng/L)	Flumequine (ng/L)	Fluoxetine (ng/L)	Lincomycin (ng/L)	Lomefloxacin (ng/L)	Miconazole (ng/L)
NLA12_MN-123	unnamed	< 14.7	< 2.09	< 14.7	< 7.59	< 1.47	< 37.9	< 13.6	< 1.47	< 46.1	< 2.93	< 0.587	< 0.587	< 0.492	< 5.87	< 247	< 2.93	< 2.25	< 1.47	< 1.47	< 2.93	< 8.31	< 1.47
NLA12_MN-123 Duplicate		< 15.0	< 2.33	< 15.0	< 7.94	< 1.50	< 33.0	< 14.3	< 1.50	< 44.1	< 3.00	< 0.887	0.683	< 0.300	< 6.00	< 235	< 3.44	< 2.30	2.01	< 1.50	< 3.00	< 8.91	< 1.50
NLA12_MN-126	Diamond	< 14.9	< 1.78	< 14.9	< 1.49	< 1.49	< 49.0	< 5.95	< 1.49	< 78.1	< 2.97	< 0.841	< 0.595	< 0.297	< 5.95	< 67.0	< 2.97	< 2.28	< 2.80	< 1.49	< 2.97	< 14.0	< 1.49
NLA12_MN-127	unnamed	< 14.8	< 4.39	< 14.8	< 18.2	< 1.48		19.4	< 1.48	< 104	< 2.95	1.62	< 0.590	< 0.953	< 5.90	< 917	< 5.43	< 2.26	< 8.40	< 1.48	< 3.64	< 9.73	< 1.57
NLA12_MN-130A	Net	< 17.2	< 3.51	< 17.2	< 5.26	< 1.72		< 47.4	< 1.72	< 39.7	< 3.44	< 0.688	< 0.688	< 0.906	< 6.88	< 578	< 4.50	< 2.64	< 2.43	< 1.72		< 5.36	< 1.72
NLA12_MN-131	unnamed	< 15.8	< 5.01	< 21.5	24.4	< 1.58	< 120	< 25.8	< 1.58	< 125	< 3.15	< 3.03	< 0.631	< 0.736	< 6.31	< 817	< 4.13	< 2.42	< 6.26	< 1.58	< 3.31	< 13.7	< 1.96
NLA12_MN-132	Clear	< 15.0	< 3.30	< 15.0	16.3	< 1.50		< 21.6	< 1.50	< 95.4	< 3.00	< 0.600	< 0.600	< 0.472	< 6.00	< 833	< 3.00	< 2.30	< 2.17	< 1.50		< 21.7	< 1.50
NLA12_MN-135	Lindgren	< 14.9	< 7.25	< 30.9	113	< 1.49	< 5.97	< 34.1	< 1.49	< 116	< 2.99	< 3.40	< 0.597	< 1.63	< 5.97	< 1130	< 5.96	< 2.29	< 11.5	< 1.49	< 2.99	< 12.3	< 2.33
NLA12_MN-136	unnamed	< 15.4	< 1.54	< 15.4	< 1.54	< 1.54		< 6.16	< 1.54	< 24.6	< 3.08	< 0.648	< 0.616	< 0.308	< 6.16	< 11.6	< 3.08	< 2.36	< 1.54	< 1.54	< 3.08	< 3.08	< 1.54
NLA12_MN-136 Blank		< 15.0	< 2.20	< 15.0	< 6.18	< 1.50		< 11.8	< 1.50	< 61.5	< 3.01	< 1.08	< 0.601	< 0.371	< 6.01	< 461	< 4.43	< 2.30	< 7.80	< 1.50	< 3.01	< 18.5	< 1.50
NLA12_MN-137	Cucumber	< 15.5	< 5.26	< 15.5	58.1	< 1.55		< 84.0	< 1.55	< 124	< 3.10	< 1.32	< 0.620	< 0.680	< 6.20	< 829	< 3.21	< 2.38	< 6.34	3.8		< 5.40	< 1.79
NLA12_MN-138A	Tenor	< 14.9	< 5.31	< 14.9	< 5.97	< 1.49		< 96.1	< 2.28	< 84.1	< 2.97	< 0.751	< 0.594	< 0.375	< 5.94	< 924	< 4.35	< 2.28	< 3.42	< 1.49		< 33.5	< 1.49
NLA12_MN-141	East Red River	< 15.4	< 2.05	< 15.4	< 9.50	< 1.54	< 43.0	< 25.4	< 1.54	< 69.0	< 3.07	< 1.07	< 0.615	< 0.307	< 6.15	< 708	< 3.07	< 2.36	< 4.40	< 1.54	< 3.07	< 24.0	< 1.54
NLA12_MN-143	unnamed	< 15.6	< 5.49	< 18.2	< 18.0	< 1.56	< 130	< 25.2	< 1.56	< 125	< 3.12	< 2.14	< 0.625	< 0.780	< 6.25	< 477	< 4.32	< 2.39	< 4.90	< 1.56	< 3.12	< 7.84	< 2.48
NLA12_MN-144	unnamed	< 14.6	< 1.87	< 54.1	< 10.8	< 1.46		< 17.2	< 1.46	< 46.8	< 2.91	< 0.845	< 0.583	< 0.329	< 5.83	< 841	< 3.16	< 2.23	< 2.48	< 1.46	< 2.91	< 12.1	< 1.46
NLA12_MN-145	Terrapin	< 15.7	< 3.50	< 15.7	< 6.56	< 1.57		< 6.28	< 1.57	< 47.1	< 3.14	0.715	< 0.628	< 0.345	< 6.28	< 81.0	< 3.14	< 2.41	< 1.57	< 1.57		< 5.81	< 1.57
NLA12_MN-147	Wilbur	< 14.3	< 2.35	< 14.3	< 1.43	< 1.43	< 31.4	< 31.4	< 1.43	< 91.3	< 2.86	< 1.17	< 0.572	< 0.437	< 5.72	< 473	< 4.19	< 2.19	< 3.73	< 1.43	< 2.86	< 10.2	< 1.43
NLA12_MN-150	Spree	< 14.8	< 5.14	< 14.8	< 5.93	< 1.48		< 54.3	< 1.48	< 26.1	< 2.96	< 0.932	< 0.592	< 0.643	< 5.92	< 1180	< 3.24	< 2.27	< 1.82	< 1.48		< 11.7	< 1.48
NLA12_MN-152	61-0091	< 15.4	< 4.56	21.6	< 11.4	< 1.54	< 6.17	< 16.2	< 1.54	< 55.9	< 3.09	< 0.883	< 0.617	< 0.425	< 6.17	< 414	< 5.83	< 2.37	< 4.70	< 1.54	< 3.09	< 8.19	< 1.54
NLA12_MN-153	Bear	< 14.6	< 3.67	< 14.6	< 7.47	< 1.46	< 36.8	< 16.3	< 1.46	< 48.5	< 2.92	< 0.944	< 0.584	< 0.445	< 5.84	< 558	< 2.92	< 2.24	< 1.90	< 1.46	< 2.92	< 7.44	< 1.46
NLA12_MN-157	Glorvigan	< 14.3	< 3.63	< 14.3	< 7.89	< 1.43	< 68.3	< 5.71	< 1.43	< 8.13	< 2.85	< 1.54	< 0.571	< 0.872	< 5.71	< 5.71	< 4.75	< 2.19	< 5.55	< 1.43	< 2.85	< 18.2	< 1.93
NLA12_MN-158	unnamed	< 15.2	< 4.08	< 15.4	34.3	< 1.52		< 28.7	< 1.52	< 96.3	< 3.48	< 1.81	< 0.607	< 0.969	< 6.07	< 632	< 4.51	< 2.33	< 8.46	< 1.52	< 3.59	< 22.2	< 1.62
NLA12_MN-158 Blank		< 15.2	< 1.52	< 15.2	< 1.52	< 1.52		< 6.08	< 1.52	< 8.76	< 3.04	< 0.608	< 0.608	< 0.304	< 6.08	< 11.0	< 3.04	< 2.33	< 1.52	< 1.52	< 3.04	< 3.04	< 1.52
NLA12_MN-160	unnamed	< 14.9	< 4.72	< 15.1	< 13.5	< 1.49	< 5.96	< 19.3	< 1.49	< 102	< 2.98	< 1.67	< 0.596	< 0.535	< 5.96	< 603	< 5.94	< 2.29	< 2.06	< 1.49	< 2.98	< 12.6	< 1.72

Lake number	Lake name	Acetaminophen (ng/L)	Azithromycin (ng/L)	Caffeine (ng/L)	Carbadox (ng/L)	Carbamazepine (ng/L)	Cefotaxime (ng/L)	Ciprofloxacin (ng/L)	Clarithromycin (ng/L)	Clinafloxacin (ng/L)	Cloxacillin (ng/L)	Dehydronifedipine (ng/L)	Diphenhydramine (ng/L)	Diltiazem (ng/L)	Digoxin (ng/L)	Digoxigenin (ng/L)	Enrofloxacin (ng/L)	Erythromycin-H_2O (ng/L)	Flumequine (ng/L)	Fluoxetine (ng/L)	Lincomycin (ng/L)	Lomefloxacin (ng/L)	Miconazole (ng/L)
NLA12_MN-162	Waymier	< 14.8	< 5.24	< 25.8	< 22.0	< 1.48		< 38.7	< 1.48	< 165	< 4.87	< 3.90	< 0.592	< 0.709	< 7.84	< 1700	< 9.92	< 2.27	< 3.57	< 1.48	< 2.96	< 32.9	< 2.12
NLA12_MN-163	unnamed	< 14.5	< 2.14	< 14.5	< 7.79	< 1.45		< 33.4	< 1.45	< 79.7	< 2.90	< 0.579	< 0.579	< 0.328	< 5.79	< 392	< 2.94	< 2.22	< 3.11	< 1.45		< 9.04	< 1.45
NLA12_MN-167	unnamed	< 14.9	< 1.90	23.2	25	< 1.49	< 5.96	< 16.1	< 1.49	< 59.9	< 2.98	< 0.799	0.784	< 0.312	< 5.96	< 308	< 3.53	< 2.29	< 3.90	< 1.49	< 2.98	< 10.2	< 1.77
NLA12_MN-170A	unnamed	< 14.4	< 3.21	< 14.4	< 1.44	< 1.44		< 26.7	< 1.44	< 105	< 2.87	< 0.574	< 0.574	< 0.584	< 5.74	< 1270	< 3.62	< 2.20	< 3.02	< 1.44	< 2.87	< 27.5	< 1.44
NLA12_MN-171	unnamed	< 14.0	< 3.87	< 14.0	< 31.6	< 1.40		< 19.0	< 1.40	< 220	< 3.70	< 2.50	< 0.562	< 0.551	< 5.62	< 2000	< 10.3	< 2.15	< 3.14	< 1.40	< 2.81	< 37.2	< 2.12
NLA12_MN-171 Blank		< 15.0	< 1.50	< 15.0	< 1.50	< 1.50		< 8.30	< 1.50	< 16.8	< 3.00	< 0.599	< 0.599	< 0.300	< 5.99	< 5.99	< 3.13	< 2.30	< 1.50	< 1.50	< 3.00	< 8.92	< 1.50
NLA12_MN-177	unnamed	< 21.8	< 6.74	< 18.4	121	< 1.56	< 6.24	< 30.0	< 1.56	< 149	< 3.12	< 1.58	< 0.666	< 1.22	< 6.24	< 997	< 7.02	< 2.39	< 13.3	< 1.56	< 3.69	< 11.5	< 2.52
NLA12_MN-181	unnamed	< 15.0	< 2.29	< 17.0	< 10.1	< 1.50		< 17.1	< 1.50	< 90.5	< 3.33	< 0.599	< 0.599	< 0.667	< 5.99	< 1020	< 4.59	< 2.29	< 9.40	< 1.50	< 2.99	< 27.5	< 1.50
NLA12_MN-206	unnamed	< 14.5	< 3.69	< 14.5	< 4.64	< 1.45		< 41.1	< 1.45	< 191	< 2.90	< 0.832	< 0.579	< 0.920	< 5.79	< 526	< 4.09	< 2.22	< 1.50	< 1.45		< 2.90	< 1.45

* Currently receives treated domestic wastewater.

Table 5 Pharmaceuticals List 1 continued

Lake number	Lake name	Norfloxacin (ng/L)	Norgestimate (ng/L)	Ofloxacin (ng/L)	Ormetoprim (ng/L)	Oxacillin (ng/L)	Oxolinic Acid (ng/L)	Penicillin G (ng/L)	Penicillin V (ng/L)	Roxithromycin (ng/L)	Sarafloxacin (ng/L)	Sulfachloropyridazine (ng/L)	Sulfadiazine (ng/L)	Sulfadimethoxine (ng/L)	Sulfamerazine (ng/L)	Sulfamethazine (ng/L)	Sulfamethizole (ng/L)	Sulfamethoxazole (ng/L)	Sulfanilamide (ng/L)	Sulfathiazole (ng/L)	Thiabendazole (ng/L)	Trimethoprim (ng/L)	Tylosin (ng/L)	Virginiamycin (ng/L)	1,7-Dimethylxanthine (ng/L)
NLA12_MN-101	Long	< 44.8	< 11.6	< 2.67	< 0.581	< 3.68	< 2.80	< 2.91	< 6.35	< 0.291	< 14.5	< 3.75	< 1.45	< 1.02	< 1.85	< 9.21	< 2.75	< 3.30	< 14.5	< 2.25	< 1.45	< 2.47	< 5.81	< 37.3	< 58.1
NLA12_MN-102	Spring	< 71.3	< 3.00	< 2.30	< 0.600	< 3.00	< 0.842	< 3.00		< 0.300	< 15.0	< 3.07	< 1.50	< 0.646	< 1.54	< 1.70	< 0.600	< 1.69	< 15.0	< 1.50	< 1.50	< 2.02	< 6.00	< 29.9	< 60.0
NLA12_MN-103	Lookout	< 89.8	< 16.5	< 4.22	< 1.01	< 3.54	< 1.43	< 3.12	< 3.12	< 0.312	< 16.0	< 2.26	< 1.56	< 0.312	< 2.08	< 9.04	< 3.08	< 2.08	< 15.6	< 2.65	< 1.56	< 1.56	< 6.25	< 41.4	< 62.5
NLA12_MN-104	Fairy	< 52.3	< 10.8	< 3.01	< 0.593	< 2.97	< 2.40	< 9.89	< 2.97	< 0.297	< 23.3	< 2.34	< 1.48	< 1.02	< 2.28	< 2.22	< 0.593	< 0.593	< 14.8	< 2.06	< 1.48	< 2.60	< 5.93	< 28.1	< 59.3
NLA12_MN-105	Becoosin	< 188	< 3.16	< 4.92	< 0.632	< 3.16	< 2.50	< 3.16		< 0.643	< 15.8	< 18.3	< 3.31	< 1.09	< 3.75	< 18.3	< 0.632	< 2.79	< 15.8	< 1.58	< 1.58	< 2.37	< 6.83	< 75.7	< 63.2
NLA12_MN-106	Darling	< 49.1	< 17.0	< 3.12	< 0.637	< 5.12	< 0.694	< 3.19	< 3.19	< 0.319	< 15.9	< 1.92	< 1.59	< 2.25	< 2.12	< 3.09	< 1.71	< 2.12	< 15.9	< 2.24	< 1.59	< 2.96	< 6.37	< 14.0	< 63.7
NLA12_MN-106 Duplicate		< 37.9	< 11.0	< 3.70	< 0.628	< 3.14	< 5.46	< 3.14	< 3.14	< 0.314	< 15.7	< 3.29	< 1.57	< 1.01	< 2.09	< 8.85	< 1.85	< 2.09	< 15.7	< 2.11	< 1.57	< 1.57	< 6.28	< 22.1	< 62.8
NLA12_MN-107	Cokato	< 53.5	< 2.97	< 2.67	< 0.594	< 2.97	< 1.03	< 2.97		< 0.297	< 14.9	< 3.97	< 1.67	< 0.297	< 1.71	5.54	< 0.594	< 1.60	< 14.9	< 1.49	< 1.49	< 2.68	< 5.94	< 5.41	< 59.4
NLA12_MN-108	Long	< 36.2	< 2.98	< 2.30	< 0.595	< 2.98	< 0.595	< 2.98		< 0.298	< 14.9	< 3.13	< 1.49	< 0.298	< 1.42	< 2.16	< 0.595	< 0.689	< 14.9	< 1.49	< 1.49	< 1.55	< 5.95	< 7.34	< 59.5
NLA12_MN-109	Richey	< 15.5	< 31.6	< 3.58	< 0.620	< 3.10	< 0.620	< 3.10	< 10.3	< 0.310	< 15.5	< 1.55	< 2.27	< 1.05	< 3.76	< 6.29	< 4.53	< 0.620	< 15.5	< 1.55	< 1.55	< 3.69	< 6.20	< 7.33	< 65.8
NLA12_MN-110	Crow Wing	< 63.1	< 20.2	< 4.83	< 0.613	< 3.07	< 1.05	< 3.07	< 10.2	< 0.307	< 15.3	< 1.53	< 1.53	< 0.307	< 0.613	< 4.76	< 2.10	< 3.83	< 15.3	< 1.53	< 1.53	< 2.44	< 6.13	< 34.0	< 69.7
NLA12_MN-111	Snail	< 24.1	< 3.06	< 4.20	< 0.613	< 3.06	< 2.11	< 3.06		< 0.306	< 15.3	< 2.94	< 1.53	< 0.408	< 1.33	< 2.34	< 0.613	< 0.613	< 15.3	< 1.53	< 1.53	< 2.41	< 6.13	< 5.49	< 61.3
NLA12_MN-112	Eagle	< 107	< 25.4	< 2.73	< 0.627	< 7.12	< 4.27	< 3.14	< 6.30	< 0.314	< 15.7	< 4.80	< 1.69	< 1.44	< 2.09	< 14.6	< 1.93	< 2.09	< 15.7	< 4.21	< 1.57	< 3.37	< 6.27	< 34.5	< 62.7
NLA12_MN-113	North Ash	< 74.6	< 18.6	< 3.41	< 0.911	< 5.30	< 4.63	< 3.01	< 3.10	< 0.301	< 15.1	< 4.11	< 1.51	< 1.00	< 1.25	< 4.78	< 2.27	< 1.17	< 15.1	< 2.92	< 1.51	< 2.79	< 6.03	< 35.9	< 60.3
NLA12_MN-114	Woodcock	< 54.3	< 24.2	< 4.33	< 1.22	< 7.22	< 4.44	< 3.78	< 14.8	< 0.303	< 15.2	< 5.08	< 1.52	< 0.331	< 2.47	< 6.30	< 3.10	< 1.69	< 15.2	18.1	< 1.52	< 2.31	< 6.06	< 41.9	< 60.6
NLA12_MN-115	Round	< 36.0	< 13.7	< 2.70	< 0.601	< 3.00	< 1.83	< 3.00	< 3.00	< 0.300	< 15.0	< 1.50	< 1.50	< 1.41	< 2.00	< 1.33	< 1.49	< 2.49	< 15.0	< 1.50	< 1.50	< 1.50	< 6.01	< 12.3	< 60.1
NLA12_MN-115 duplicate		< 32.6	< 11.5	< 1.86	< 0.623	< 3.11	< 2.06	< 3.11	< 4.37	< 0.311	< 15.6	< 2.03	< 1.56	< 0.813	< 2.08	< 1.80	< 1.34	< 2.08	< 15.6	< 1.62	< 1.56	< 1.56	< 6.23	< 12.2	< 62.3
NLA12_MN-116	Nokomis	< 48.6	< 14.1	< 2.51	< 0.594	< 6.44	< 0.686	< 2.97	< 2.97	< 0.297	< 14.9	< 1.50	< 1.49	< 0.845	< 1.75	< 2.74	< 0.844	< 1.51	< 14.9	< 1.52	3.98	< 1.49	< 5.94	< 26.1	< 59.4
NLA12_MN-118*	South	< 211	< 3.16	8.94	< 0.631	< 3.16	< 3.02	< 3.16		< 0.322	< 15.8	< 16.5	< 2.45	< 0.667	< 2.31	134	< 0.631	57.1	< 15.8	< 2.87	< 1.58	< 4.42	< 6.31	< 43.3	< 63.1
NLA12_MN-119	Big Stone	< 59.9	< 30.3	< 3.49	< 0.598	< 2.99	< 3.54	< 2.99	< 2.99	< 0.299	< 14.9	< 1.78	< 1.49	< 2.73	< 1.99	< 2.69	< 1.86	< 1.99	< 14.9	< 2.02	< 1.49	< 1.49	< 5.98	< 21.9	< 59.8
NLA12_MN-120	Flat	< 33.1	< 3.00	< 4.44	< 0.599	H 3.08	< 2.01	< 3.00		< 0.300	< 15.0	< 4.69	< 1.50	< 0.335	< 1.09	< 1.98	2.48	< 0.976	< 15.0	< 1.50	< 1.50	< 3.30	< 5.99	< 30.4	< 59.9
NLA12_MN-121	Norway	< 55.4	< 26.8	< 4.69	< 0.599	< 7.80	< 1.76	< 2.99	< 2.99	< 0.299	< 15.0	< 3.57	< 1.50	< 1.18	< 2.36	< 5.69	< 2.13	< 2.00	< 15.0	< 2.45	< 1.50	< 1.50	< 5.99	< 43.6	< 59.9
NLA12_MN-122	Jennie	< 50.3	< 3.18	< 2.66	< 0.636	< 3.18	< 2.81	< 3.18		< 0.318	< 15.9	< 3.10	< 1.59	< 0.318	< 1.11	< 1.73	< 0.636	< 0.712	< 15.9	< 1.59	< 1.59	< 1.65	< 6.36	< 4.42	< 63.6
NLA12_MN-123	unnamed	< 37.7	< 10.6	< 2.42	< 0.587	< 4.69	< 1.11	< 2.93	< 2.93	< 0.293	< 14.7	< 2.13	< 1.47	< 0.367	< 1.01	< 1.93	< 0.919	< 2.18	< 14.7	< 1.64	< 1.47	< 1.88	< 5.87	< 20.4	< 58.7

Lake number	Lake name	Norfloxacin (ng/L)	Norgestimate (ng/L)	Ofloxacin (ng/L)	Ormetoprim (ng/L)	Oxacillin (ng/L)	Oxolinic Acid (ng/L)	Penicillin G (ng/L)	Penicillin V (ng/L)	Roxithromycin (ng/L)	Sarafloxacin (ng/L)	Sulfachloropyridazine (ng/L)	Sulfadiazine (ng/L)	Sulfadimethoxine (ng/L)	Sulfamerazine (ng/L)	Sulfamethazine (ng/L)	Sulfamethizole (ng/L)	Sulfamethoxazole (ng/L)	Sulfanilamide (ng/L)	Sulfathiazole (ng/L)	Thiabendazole (ng/L)	Trimethoprim (ng/L)	Tylosin (ng/L)	Virginiamycin (ng/L)	1,7-Dimethylxanthine (ng/L)
NLA12_MN-123 Duplicate		< 42.8	< 11.2	< 2.25	< 0.600	< 3.48	< 1.96	< 3.00	< 3.00	< 0.300	< 15.0	< 2.34	< 1.50	< 0.384	< 0.699	< 2.52	< 1.06	< 1.26	< 15.0	< 1.51	< 1.50	< 1.68	< 6.00	< 19.7	< 60.0
NLA12_MN-126	Diamond	< 14.9	< 23.9	< 2.18	< 0.595	< 2.97	< 1.57	< 2.97	< 9.92	< 0.297	< 14.9	< 1.49	< 1.49	< 0.297	< 0.595	< 3.43	< 1.52	< 1.78	< 14.9	< 1.49	< 1.49	< 1.52	< 5.95	< 3.76	< 69.8
NLA12_MN-127	unnamed	< 70.4	< 21.8	< 3.48	< 1.64	< 4.40	< 5.33	< 2.95	< 4.54	< 0.295	< 14.8	< 6.42	< 1.52	< 1.18	< 5.52	< 8.93	< 7.38	< 2.29	< 14.8	18.9	< 1.48	< 3.11	< 5.90	< 74.0	< 59.0
NLA12_MN-130A	Net	< 81.1	< 8.77	< 5.00	< 0.688	< 3.44	< 0.688	< 3.44		< 0.344	< 17.2	< 4.80	< 1.83	< 0.615	< 2.12	< 2.96	< 0.688	< 1.32	< 17.2	< 1.72	< 1.72	< 2.01	< 6.88	< 34.6	< 68.8
NLA12_MN-131	unnamed	< 51.7	< 16.2	< 3.25	< 0.631	< 9.15	< 1.10	< 3.15	< 4.13	< 0.315	< 16.9	< 6.48	< 1.58	3.52	12.5	< 3.56	< 4.69	< 5.85	< 15.8	< 3.73	< 1.58	< 3.16	< 6.31	< 37.1	< 63.1
NLA12_MN-132	Clear	< 72.8	< 3.00	< 3.37	< 0.600	< 3.00	< 1.85	< 3.00		< 0.300	< 15.0	< 5.04	< 1.50	< 0.981	< 1.10	< 2.01	< 0.600	< 2.09	< 15.0	< 1.50	< 1.50	< 3.42	< 6.00	< 39.3	< 60.0
NLA12_MN-135	Lindgren	< 91.6	< 25.8	< 7.66	< 0.597	< 5.70	< 2.75	< 2.99	< 7.35	< 0.299	< 15.8	< 3.88	< 1.49	< 3.71	< 1.99	< 4.73	< 4.69	< 1.99	< 14.9	18.1	< 1.49	< 1.49	< 5.97	< 42.4	< 59.7
NLA12_MN-136	unnamed	< 21.7	< 3.22	< 1.54	< 0.616	< 3.08	< 0.616	< 3.08	< 3.08	< 0.308	< 15.4	< 1.54	< 1.54	< 0.308	< 0.616	< 0.673	< 0.616	< 0.616	< 15.4	< 1.54	< 1.54	< 1.54	< 6.16	< 3.21	< 61.6
NLA12_MN-136 Blank		< 61.3	< 12.0	< 2.49	< 0.601	< 4.58	< 3.68	< 4.01	< 4.19	< 0.301	< 15.0	< 1.50	< 1.50	< 0.527	< 1.98	< 4.22	< 3.85	< 2.22	< 15.0	< 2.30	< 1.50	< 2.01	< 6.01	< 27.3	< 60.1
NLA12_MN-137	Cucumber	< 39.0	< 3.10	< 4.20	< 0.620	< 3.10	< 13.6	< 3.10		< 0.447	< 15.5	< 5.25	< 2.74	< 1.49	< 4.43	< 5.10	< 0.620	< 4.37	< 15.5	< 1.55	< 1.55	< 7.17	< 6.20	< 87.4	< 62.0
NLA12_MN-138A	Tenor	< 224	< 2.97	< 5.25	< 0.594	< 2.97	< 1.01	< 2.97		< 0.442	< 14.9	< 14.9	< 3.79	< 0.331	< 4.55	< 10.3	< 0.594	< 5.01	< 14.9	< 1.49	< 1.49	< 1.95	< 12.7	< 35.5	< 59.4
NLA12_MN-141	East Red River	< 50.8	< 7.63	< 4.74	< 0.615	< 3.07	< 0.615	< 3.07	< 10.2	< 0.307	< 15.4	< 1.54	< 1.54	< 0.307	< 0.615	< 2.54	< 2.09	< 0.615	< 15.4	< 1.54	< 1.54	< 1.67	< 6.15	< 13.1	< 67.4
NLA12_MN-143	unnamed	< 87.5	< 26.1	< 3.15	< 0.625	< 5.95	< 6.19	< 3.12	< 5.14	< 0.312	< 15.6	< 2.35	< 1.56	< 4.94	< 2.08	< 5.08	< 1.66	< 2.08	< 15.6	< 2.56	< 1.56	< 1.56	< 6.25	< 33.1	< 62.5
NLA12_MN-144	unnamed	< 71.1	< 16.4	< 3.03	< 0.857	< 2.91	< 4.46	< 2.91	< 7.00	< 0.291	< 17.6	< 2.23	< 1.46	< 0.291	< 2.33	< 6.77	< 1.87	< 3.27	< 14.6	< 2.18	< 1.46	3.51	< 5.83	< 22.0	< 58.3
NLA12_MN-145	Terrapin	< 81.4	< 3.14	< 4.13	< 0.628	< 3.14	< 1.53	< 3.14		< 0.314	< 15.7	< 1.64	< 1.57	< 1.04	< 2.80	< 2.93	< 0.628	< 1.66	< 15.7	< 1.57	< 1.57	< 2.47	< 6.28	< 18.5	< 62.8
NLA12_MN-147	Wilbur	< 66.8	< 8.24	< 3.61	< 0.572	< 5.56	< 2.17	< 2.86	< 3.05	< 0.286	< 14.3	< 3.21	< 1.43	< 0.291	< 1.07	< 2.85	< 0.996	< 2.25	< 14.3	< 1.80	< 1.43	< 1.88	< 5.72	< 13.9	< 57.2
NLA12_MN-150	Spree	< 145	< 2.96	< 3.59	< 0.592	< 2.96	< 2.13	< 2.96		< 0.395	< 14.8	< 17.6	< 3.48	< 0.772	< 3.31	< 8.18	< 0.592	< 4.24	< 14.8	< 1.48	< 1.48	< 3.25	< 6.11	< 71.2	< 59.2
NLA12_MN-152	61-0091	< 44.1	< 12.5	< 2.84	< 0.617	< 3.09	< 3.75	< 3.09	< 4.59	< 0.309	< 15.4	< 1.68	< 1.54	< 0.391	< 2.06	< 4.70	< 3.62	< 3.28	< 15.4	32.8	< 1.54	< 1.54	< 6.17	< 18.8	< 61.7
NLA12_MN-153	Bear	< 56.7	< 24.6	< 1.67	< 0.584	< 4.53	< 2.42	< 2.92	< 2.92	< 0.292	< 14.6	< 2.36	< 1.46	< 0.857	< 1.23	< 4.31	< 1.91	< 2.78	< 14.6	< 2.27	< 1.46	< 2.47	< 5.84	< 29.3	< 58.4
NLA12_MN-157	Glorvigan	< 56.7	< 35.9	< 3.47	< 0.571	< 2.85	< 2.27	< 2.85	< 9.52	< 0.285	< 14.3	< 1.43	< 1.43	< 0.383	< 0.571	< 5.25	< 4.59	< 4.82	< 14.3	< 2.58	< 1.43	< 3.59	< 5.71	< 51.0	< 77.5
NLA12_MN-158	unnamed	< 134	< 30.4	< 4.49	< 0.607	< 5.47	< 1.76	< 6.46	< 6.86	< 0.304	< 15.2	< 1.52	< 1.74	< 3.20	< 3.33	< 14.1	< 3.89	< 4.56	< 15.2	< 4.32	< 1.52	< 2.57	< 6.07	< 42.8	< 60.7
NLA12_MN-158 Blank		< 15.2	< 3.85	< 1.52	< 0.608	< 3.04	< 0.608	< 3.04	< 3.04	< 0.304	< 15.2	< 1.52	< 1.52	< 0.313	< 0.608	< 0.875	< 0.608	< 0.608	< 15.2	< 1.52	< 1.52	< 1.52	< 6.08	< 3.04	< 60.8
NLA12_MN-160	unnamed	< 54.6	< 42.9	< 3.36	< 1.76	< 4.28	< 9.67	< 2.98	< 2.98	< 0.298	< 19.3	< 2.07	< 1.74	< 1.06	2.89	< 3.14	< 4.18	< 4.82	< 14.9	< 3.78	< 1.49	< 1.49	< 5.96	< 33.2	< 59.6
NLA12_MN-162	Waymier	< 142	< 55.1	< 4.82	< 0.592	< 14.0	< 7.29	< 2.96	< 5.15	< 0.296	< 54.7	< 9.02	< 2.55	< 5.58	< 5.05	< 7.61	< 4.45	< 5.47	< 14.8	< 1.48	< 1.48	< 2.96	< 5.92	< 60.1	< 59.2
NLA12_M	unnamed	< 94.1	< 2.90	< 3.06	< 0.579	< 2.90	< 0.579	< 2.90		< 0.290	< 14.5	< 4.35	< 1.53	< 0.290	< 1.88	< 2.30	< 0.579	< 1.45	< 14.5	< 1.45	< 1.45	< 1.95	< 5.79	< 18.6	< 57.9

Lake number	Lake name	Norfloxacin (ng/L)	Norgestimate (ng/L)	Ofloxacin (ng/L)	Ormetoprim (ng/L)	Oxacillin (ng/L)	Oxolinic Acid (ng/L)	Penicillin G (ng/L)	Penicillin V (ng/L)	Roxithromycin (ng/L)	Sarafloxacin (ng/L)	Sulfachloropyridazine (ng/L)	Sulfadiazine (ng/L)	Sulfadimethoxine (ng/L)	Sulfamerazine (ng/L)	Sulfamethazine (ng/L)	Sulfamethizole (ng/L)	Sulfamethoxazole (ng/L)	Sulfanilamide (ng/L)	Sulfathiazole (ng/L)	Thiabendazole (ng/L)	Trimethoprim (ng/L)	Tylosin (ng/L)	Virginiamycin (ng/L)	1,7-Dimethylxanthine (ng/L)
N-163																									
NLA12_MN-167	unnamed	< 53.8	< 15.5	< 2.45	< 0.596	< 3.07	< 1.79	< 2.98	< 2.98	< 0.298	< 14.9	< 2.10	< 1.49	< 1.41	< 1.99	< 2.70	< 1.98	< 1.99	< 14.9	15.5	< 1.49	< 1.49	< 5.96	< 23.1	< 59.6
NLA12_MN-170A	unnamed	< 89.4	< 25.0	< 3.80	< 0.574	< 5.25	< 5.35	< 2.87	< 3.28	< 0.287	< 40.9	< 5.41	< 1.44	< 0.585	< 2.06	< 7.43	< 2.70	< 3.19	< 14.4	< 1.44	< 1.44	< 2.19	< 5.74	< 36.6	< 57.4
NLA12_MN-171	unnamed	< 77.9	< 33.5	< 7.27	< 2.14	< 7.06	< 3.17	< 7.95	< 6.56	< 0.281	< 29.7	< 14.7	< 1.40	< 1.07	< 2.93	< 8.17	< 5.10	< 8.32	< 14.0	< 4.23	< 1.40	6.22	< 5.62	< 43.3	< 62.1
NLA12_MN-171 Blank		< 25.4	< 10.6	< 2.13	< 0.599	< 3.00	< 0.599	< 3.00	< 3.17	< 0.300	< 15.0	< 1.50	< 1.50	< 0.300	< 0.599	< 2.00	< 0.599	< 2.00	< 15.0	< 1.50	< 1.50	< 1.50	< 5.99	< 3.50	< 59.9
NLA12_MN-177	unnamed	< 110	< 36.2	< 3.54	< 2.17	< 11.9	< 7.44	< 3.12	< 7.88	< 0.312	< 21.0	< 4.08	< 1.73	< 0.561	< 2.08	< 13.0	< 2.64	< 2.08	< 15.6	< 4.94	< 1.56	< 1.56	< 6.24	< 62.0	< 62.4
NLA12_MN-181	unnamed	< 58.5	< 13.1	< 2.46	< 0.599	< 3.72	< 1.50	< 2.99	< 4.91	< 0.299	< 27.9	< 5.88	< 1.50	< 1.33	< 1.77	< 5.03	< 3.09	< 3.43	< 15.0	< 1.50	< 1.50	< 3.65	< 5.99	< 26.2	< 59.9
NLA12_MN-206	unnamed	< 99.5	< 2.90	< 5.58	< 0.579	< 2.90	< 7.67	< 2.90		< 0.294	< 14.5	< 5.78	< 2.32	< 0.541	< 2.03	< 7.78	< 0.579	< 2.89	< 14.5	< 1.45	< 1.45	< 3.46	< 5.79	< 39.9	< 57.9

* Currently receives treated domestic wastewater.

Table 6 Pharmaceuticals List 2

Lake number	Lake name	Anhydro-chlortetracycline [ACTC] (ng/L)	Anhydro-tetracycline [ATC] (ng/L)	Chlortetracycline [CTC] (ng/L)	Demeclocycline (ng/L)	Doxycycline (ng/L)	4-Epianhydro-chlortetracycline [EACTC] (ng/L)	4-Epianhydro-tetracycline [EATC] (ng/L)	4-Epichlor-tetracycline [ECTC] (ng/L)	4-Epioxy-tetracycline [EOTC] (ng/L)	4-Epi-tetracycline [ETC] (ng/L)	Isochlor-tetracycline [ICTC] (ng/L)	Minocycline (ng/L)	Oxy-tetracycline [OTC] (ng/L)	Tetracycline [TC] (ng/L)
NLA12_MN-101	Long	< 188	< 92.2	< 11.3	< 29.5	< 21.5	< 369	< 174	< 27.8	< 13.2	< 33.9	< 15.7	< 463	< 12.9	< 17.2
NLA12_MN-102	Spring	< 34.8	< 36.6		< 17.5	< 9.37	< 93.7	< 64.8	< 22.3	< 14.5	< 8.58	< 7.79	< 184	< 9.88	< 6.93
NLA12_MN-103	Lookout	< 29.0	< 15.6	< 20.8	< 15.6	< 6.25	< 62.5	< 15.6	< 15.6	< 20.8	< 6.25	< 6.25	< 521	< 7.07	< 6.25
NLA12_MN-104	Fairy	< 34.7	< 38.1	< 8.56	< 14.8	< 5.93	< 59.3	< 14.8	< 53.8	< 19.8	< 17.5	< 5.93	< 375	< 9.88	< 6.96
NLA12_MN-105	Becoosin	< 61.9	< 64.4		< 21.1	< 12.9	< 63.2	< 133	< 33.7	< 24.2	< 6.32	< 12.0	< 288	< 14.9	< 6.32
NLA12_MN-106	Darling	< 21.8	< 15.9	< 21.2	< 16.6	< 6.37	< 63.7	< 15.9	< 15.9	< 21.2	< 6.37	< 6.37	< 531	< 6.37	< 6.37
NLA12_MN-106 Duplicate		< 18.7	< 15.7	< 20.9	< 15.7	< 6.28	< 62.8	< 15.7	< 15.7	< 20.9	< 6.28	< 9.08	< 523	< 6.28	< 6.28
NLA12_MN-107	Cokato	< 27.8	< 34.8		< 19.3	< 9.18	< 78.1	< 60.5	< 25.3	< 13.9	< 10.7	< 8.49	< 155	< 9.56	< 8.14
NLA12_MN-108	Long	< 23.3	< 36.0		< 16.2	< 8.72	< 68.1	< 63.3	< 15.3	< 7.92	< 6.91	< 5.95	< 102	< 6.55	< 5.96
NLA12_MN-109	Richey	< 47.5	< 39.6	< 9.12	< 25.3	< 7.15	< 207	< 15.5	< 15.5	< 20.7	< 33.2	< 7.17	< 475	< 10.1	< 11.1
NLA12_MN-110	Crow Wing	< 49.7	< 20.0	< 8.43	< 19.0	< 6.13	< 204	< 41.6	< 15.3	< 20.4	< 25.4	< 7.36	< 444	< 6.80	< 8.90
NLA12_MN-111	Snail	< 28.8	< 25.0		< 17.0	< 8.46	< 80.8	< 35.1	< 18.3	< 6.13	< 7.62	< 7.58	< 61.3	< 8.43	< 6.42
NLA12_MN-112	Eagle	< 37.7	< 15.7	< 20.9	< 33.1	< 6.90	< 62.7	< 15.7	< 15.7	< 20.9	< 6.27	< 8.04	< 596	< 6.27	< 7.95
NLA12_MN-113	North Ash	< 187	< 87.3	< 11.3	< 20.4	< 20.5	< 330	< 15.1	< 27.5	< 15.5	< 32.5	< 12.6	< 578	< 15.1	< 15.9
NLA12_MN-114	Woodcock	< 32.3	< 17.0	< 10.5	< 23.3	< 10.0	< 112	< 21.5	< 39.2		< 18.6	< 6.06	< 135	< 11.7	< 8.55
NLA12_MN-115	Round	< 23.3	< 15.0	< 20.0	< 15.0	< 6.01	< 60.1	< 15.0	< 15.0	< 20.0	< 6.01	< 6.01	< 501	< 6.01	< 6.01
NLA12_MN-115 duplicate		< 20.2	< 15.6	< 20.8	< 15.6	< 6.23	< 62.3	< 15.6	< 15.6	< 20.8	< 6.23	< 6.23	< 519	< 6.23	< 6.23
NLA12_MN-116	Nokomis	< 160	< 87.7	< 12.9	< 14.9	< 19.8	< 171	< 14.9	< 32.4	< 11.4	< 24.4	< 8.43	< 218	< 11.0	< 10.1
NLA12_MN-118*	South	< 50.1	< 69.4		< 27.0	< 11.5	< 63.9	< 145	< 38.7	< 6.31	< 11.5	< 7.13	< 196	< 10.5	< 8.73

Lake number	Lake name	Anhydro-chlortetracycline [ACTC] (ng/L)	Anhydro-tetracycline [ATC] (ng/L)	Chlortetracycline [CTC] (ng/L)	Demeclocycline (ng/L)	Doxycycline (ng/L)	4-Epianhydro-chlortetracycline [EACTC] (ng/L)	4-Epianhydro-tetracycline [EATC] (ng/L)	4-Epichlor-tetracycline [ECTC] (ng/L)	4-Epioxy-tetracycline [EOTC] (ng/L)	4-Epi-tetracycline [ETC] (ng/L)	Isochlor-tetracycline [ICTC] (ng/L)	Minocycline (ng/L)	Oxy-tetracycline [OTC] (ng/L)	Tetracycline [TC] (ng/L)
NLA12_MN-119	Big Stone	< 29.5	< 14.9	< 19.9	< 14.9	< 5.98	< 59.8	< 14.9	< 14.9	< 19.9	< 5.98	< 5.98	< 498	< 5.98	< 5.98
NLA12_MN-120	Flat	< 31.5	< 35.8		< 26.6	< 9.84	< 86.4	< 62.6	< 41.5	< 10.0	< 14.1	< 9.20	< 177	< 7.64	< 10.1
NLA12_MN-121	Norway	< 23.5	< 15.0	< 20.0	< 15.0	< 5.99	< 59.9	< 15.0	< 15.0	< 20.0	< 5.99	< 5.99	< 499	< 5.99	< 5.99
NLA12_MN-122	Jennie	< 26.7	< 24.8		< 21.9	< 9.11	< 76.8	< 33.6	< 28.5	< 16.3	< 9.54	< 10.2	< 129	< 11.0	< 7.60
NLA12_MN-123	unnamed	< 155	< 58.8	< 11.8	< 21.0	< 20.1	< 154	< 105	< 29.1	< 12.4	< 28.9	< 17.1	< 468	< 12.0	< 13.5
NLA12_MN-123 Duplicate		< 165	< 77.1	< 15.0	< 15.0	< 20.0	< 197	< 15.0	< 38.5	< 12.2	< 28.1	< 13.1	< 482	< 11.7	< 12.7
NLA12_MN-126	Diamond	< 33.5	< 14.9	< 8.06	< 16.2	< 5.95	< 198	< 14.9	< 14.9	< 19.8	< 7.63	< 5.95	< 270	< 5.95	< 5.95
NLA12_MN-127	unnamed	< 21.2	< 17.3	< 11.0	< 21.2	< 9.21	< 59.0	< 14.8	< 43.3		< 14.3	< 5.90	< 121	< 10.7	< 7.06
NLA12_MN-130A	Net	< 36.5	< 45.0		< 23.4	< 11.0	< 99.9	< 81.8	< 26.2	< 6.88	< 9.31	< 8.28	< 235	< 12.3	< 7.64
NLA12_MN-131	unnamed	< 22.7	< 15.8	< 21.0	< 15.8	< 6.54	< 63.1	< 15.8	< 15.8	< 21.0	< 6.31	< 6.63	< 610	< 6.53	< 6.31
NLA12_MN-132	Clear	< 41.3	< 40.6		< 19.4	< 6.99	< 108	< 74.7	< 32.9	< 12.4	< 9.17	< 11.6	< 164	< 8.85	< 7.26
NLA12_MN-135	Lindgren	< 81.6	< 14.9	< 19.9	< 15.4	< 7.67	< 59.7	< 14.9	< 14.9	< 19.9	< 5.97	< 13.7	< 699	< 7.00	< 5.97
NLA12_MN-136	unnamed	< 16.8	< 15.4	< 6.43	< 15.4	< 6.16	< 61.6	< 15.4	< 15.4		< 6.16	< 6.16	< 61.6	< 6.16	< 6.16
NLA12_MN-136 Blank		< 22.1	< 19.0	< 8.07	< 21.5	< 8.52	< 60.1	< 28.8	< 22.3		< 8.97	< 6.01	< 92.1	< 7.38	< 6.01
NLA12_MN-137	Cucumber	< 60.4	< 45.5		< 32.8	< 7.16	< 70.8	< 86.0	< 55.8	< 6.35	< 14.9	< 15.3	< 271	< 6.20	< 10.6
NLA12_MN-138A	Tenor	< 44.6	< 46.9		< 29.7	< 8.28	< 115	< 90.8	< 33.8	< 16.3	< 22.0	< 10.5	< 241	< 10.8	< 14.6
NLA12_MN-141	East Red River	< 45.4	< 24.9	< 9.11	< 16.3	< 6.20	< 205	< 15.4	< 15.4	< 20.5	< 28.5	< 9.30	< 428	< 6.74	< 9.78
NLA12_MN-143	unnamed	< 19.9	< 15.6	< 20.8	< 15.6	< 6.25	< 62.5	< 15.6	< 15.6	< 20.8	< 6.25	< 6.25	< 521	< 6.25	< 6.25
NLA12_MN-144	unnamed	< 42.4	< 36.5	< 12.3	< 14.6	< 7.36	< 103	< 47.5	< 22.9	< 8.41	< 6.62	< 7.11	< 194	< 5.86	< 6.89
NLA12_MN-145	Terrapin	< 27.1	< 32.3		< 18.5	< 8.75	< 77.3	< 52.8	< 28.7	< 6.88	< 7.64	< 8.60	< 107	< 6.28	< 6.49

Lake number	Lake name	Anhydro-chlortetracycline [ACTC] (ng/L)	Anhydro-tetracycline [ATC] (ng/L)	Chlortetracycline [CTC] (ng/L)	Demeclocycline (ng/L)	Doxycycline (ng/L)	4-Epianhydro-chlortetracycline [EACTC] (ng/L)	4-Epianhydro-tetracycline [EATC] (ng/L)	4-Epichlor-tetracycline [ECTC] (ng/L)	4-Epioxy-tetracycline [EOTC] (ng/L)	4-Epi-tetracycline [ETC] (ng/L)	Isochlor-tetracycline [ICTC] (ng/L)	Minocycline (ng/L)	Oxy-tetracycline [OTC] (ng/L)	Tetracycline [TC] (ng/L)
NLA12_MN-147	Wilbur	< 192	< 163	< 15.0	< 20.7	< 20.8	< 406	< 14.3	< 38.7	< 18.1	< 24.9	< 16.8	< 509	< 17.8	< 10.7
NLA12_MN-150	Spree	< 55.3	< 78.5		< 27.5	< 7.46	< 65.8	< 170	< 52.3	< 20.8	< 21.1	< 15.2	< 259	< 13.0	< 14.0
NLA12_MN-152	61-0091	< 20.1	< 15.4	< 20.6	< 18.9	< 6.17	< 61.7	< 15.4	< 15.4	< 20.6	< 6.17	< 7.01	< 515	< 6.54	< 6.17
NLA12_MN-153	Bear	< 157	< 94.1	< 14.2	< 28.1	< 19.5	< 166	< 178	< 36.3	< 12.2	< 23.1	< 12.4	< 468	< 11.7	< 9.28
NLA12_MN-157	Glorvigan	< 73.0	< 38.2	< 14.8	< 40.4	< 7.62	< 190	< 114	< 14.3	< 19.0	< 26.8	< 10.1	< 650	< 13.5	< 9.17
NLA12_MN-158	unnamed	< 38.4	< 21.8	< 12.9	< 31.2	< 10.5	< 149	< 15.2	< 55.6		< 21.6	< 6.07	< 151	< 18.4	< 9.53
NLA12_MN-158 Blank		< 16.3	< 15.2	< 6.29	< 15.2	< 6.08	< 60.8	< 15.2	< 15.2		< 6.08	< 6.08	< 60.8	< 6.08	< 6.08
NLA12_MN-160	unnamed	< 24.1	< 16.2	< 19.9	< 14.9	< 5.96	< 59.6	< 14.9	< 14.9	< 19.9	< 5.96	< 7.32	< 497	< 5.99	< 5.96
NLA12_MN-162	Waymier	< 76.2	< 65.8	< 11.5	< 28.4	< 7.85	< 152	< 111	< 26.4	< 21.0	< 5.92	< 5.92	< 59.2	< 13.6	< 10.0
NLA12_MN-163	unnamed	< 32.3	< 31.5		< 23.1	< 8.84	< 87.7	< 52.9	< 23.4	< 15.8	< 9.75	< 6.35	< 57.9	< 5.79	< 7.53
NLA12_MN-167	unnamed	< 27.8	< 14.9	< 19.9	< 14.9	< 5.96	< 59.6	< 14.9	< 14.9	< 19.9	< 5.96	< 5.96	< 497	< 5.96	< 5.96
NLA12_MN-170A	unnamed	< 40.7	< 50.9	< 10.2	< 14.4	< 5.74	< 86.3	< 84.1	< 23.7	< 14.6	< 5.74	< 5.74	< 57.4	< 9.92	< 8.01
NLA12_MN-171	unnamed	< 53.3	< 48.6	< 11.0	< 22.1	< 9.88	< 122	< 65.7	< 20.5	< 11.6	< 7.17	< 7.53	< 341	< 7.77	< 7.17
NLA12_MN-171 Blank		< 15.0	< 15.0	< 5.99	< 15.0	< 5.99	< 59.9	< 15.0	< 15.0	< 5.99	< 5.99	< 5.99	< 200	< 5.99	< 5.99
NLA12_MN-177	unnamed	< 19.9	< 15.6	< 20.8	< 16.7	< 7.05	< 62.4	< 15.6	< 15.6	< 20.8	< 6.24	< 10.3	< 541	< 6.71	< 6.24
NLA12_MN-181	unnamed	< 44.9	< 37.9	< 11.0	< 17.3	< 5.99	< 94.4	< 60.1	< 25.3	< 8.13	< 5.99	< 5.99	< 59.9	< 6.33	< 8.45
NLA12_MN-206	unnamed	< 42.7	< 43.5		< 31.2	< 13.3	< 111	< 82.8	< 44.7	< 18.0	< 20.9	< 16.2	< 282	< 11.5	< 13.9

* Currently receives treated domestic wastewater.

Table 7 Pharmaceuticals List 3

Lake number	Lake name	Bisphenol A (ng/L)	Furosemide (ng/L)	Gemfibrozil (ng/L)	Glipizide (ng/L)	Glyburide (ng/L)	Hydro-chlorothiazide (ng/L)	2-Hydroxy-ibuprofen (ng/L)	Ibuprofen (ng/L)	Naproxen (ng/L)	Triclocarban (ng/L)	Triclosan (ng/L)	Warfarin (ng/L)
NLA12_MN-101	Long	< 484	< 38.7	< 1.45	< 5.81	< 2.03	< 9.68	< 77.5	< 14.5	< 2.91	< 2.91	< 58.1	< 1.45
NLA12_MN-102	Spring	< 500	< 40.0	< 1.50	< 6.00	< 2.10	< 10.0	< 80.0	< 15.0	< 3.00	< 3.00	< 60.0	< 1.50
NLA12_MN-103	Lookout	< 521	< 41.7	1.9	< 6.25	< 2.19	< 10.4	< 83.3	< 15.6	< 3.12	< 3.12	< 62.5	< 1.56
NLA12_MN-104	Fairy	< 495	< 39.6	< 1.48	< 5.93	< 2.08	< 9.89	< 79.1	< 14.8	< 2.97	< 2.97	< 59.3	< 1.48
NLA12_MN-105	Becoosin	< 1050	< 84.2	< 3.16	< 12.6	< 4.42	< 21.1	< 168	< 31.6	D 7.93	< 6.32	< 126	< 3.16
NLA12_MN-106	Darling	< 531	< 42.5	< 1.59	< 6.37	< 2.23	< 10.6	< 84.9	< 15.9	< 3.19	< 3.19	< 63.7	< 1.59
NLA12_MN-106 Duplicate		< 523	< 41.8	< 1.57	< 6.28	< 2.20	< 10.5	< 83.7	< 15.7	< 3.14	< 3.14	< 62.8	< 1.57
NLA12_MN-107	Cokato	< 495	< 66.9	< 1.49	< 5.94	< 2.08	< 9.91	< 79.3	< 14.9	< 2.97	< 2.97	< 59.4	< 1.49
NLA12_MN-108	Long	< 496	< 57.5	< 1.49	< 5.95	< 2.08	< 9.92	< 79.4	< 14.9	< 2.98	< 2.98	< 59.5	< 1.49
NLA12_MN-109	Richey	< 517	< 41.4	< 1.55	< 6.20	< 2.17	< 10.3	< 82.7	< 15.5	< 3.10	< 3.10	< 62.0	< 1.55
NLA12_MN-110	Crow Wing	< 511	< 40.9	< 1.53	< 6.13	< 2.15	< 10.2	< 81.8	< 15.3	< 3.07	< 3.07	< 61.3	< 1.53
NLA12_MN-111	Snail	< 511	< 40.8	< 1.53	< 6.13	< 2.14	< 10.2	< 81.7	< 15.3	< 3.06	< 3.06	< 61.3	< 1.53
NLA12_MN-112	Eagle	< 523	< 41.8	< 1.57	< 6.27	< 2.19	< 10.5	< 83.6	< 15.7	< 3.14	< 3.14	< 62.7	< 1.57
NLA12_MN-113	North Ash	< 502	< 40.2	< 1.51	< 6.03	< 2.11	< 10.0	< 80.4	< 15.1	< 3.01	< 3.01	< 60.3	< 1.51
NLA12_MN-114	Woodcock	< 505	< 40.4	< 1.52	< 6.06	< 2.12	< 10.1	< 80.8	< 15.2	< 3.03	< 3.03	< 60.6	< 1.52
NLA12_MN-115	Round	< 501	< 40.1	< 1.50	< 6.01	< 2.10	< 10.0	< 80.1	< 15.0	< 3.00	< 3.00	< 60.1	< 1.50
NLA12_MN-115 duplicate		< 519	< 41.5	< 1.56	< 6.23	< 2.18	< 10.4	< 83.1	< 15.6	< 3.11	< 3.11	< 62.3	< 1.56
NLA12_MN-116	Nokomis	< 495	< 39.6	< 1.49	< 5.94	< 2.08	< 9.90	< 79.2	K 16.3	< 2.97	< 2.97	< 59.4	< 1.49
NLA12_MN-118*	South	< 526	< 42.1	13.2	< 6.31	< 2.21	< 10.5	< 84.2	< 15.8	< 3.16	< 3.16	< 63.1	< 1.58
NLA12_MN-119	Big Stone	< 498	< 39.8	< 1.49	< 5.98	< 2.09	< 9.96	< 79.7	< 14.9	< 2.99	< 2.99	< 59.8	< 1.49
NLA12_MN-120	Flat	< 499	< 67.0	< 1.50	< 5.99	< 2.10	< 9.99	< 79.9	< 15.0	< 3.00	< 3.00	< 59.9	< 1.50
NLA12_MN-121	Norway	< 499	< 39.9	< 1.50	< 5.99	< 2.10	< 9.98	< 79.8	< 15.0	< 2.99	< 2.99	< 59.9	< 1.50
NLA12_MN-122	Jennie	< 530	< 86.8	< 1.59	< 6.36	< 2.23	< 10.6	< 84.8	< 15.9	< 3.18	< 3.18	< 63.6	< 1.59
NLA12_MN-123	unnamed	< 489	< 39.1	< 1.47	< 5.87	< 2.05	< 9.78	< 78.2	< 14.7	< 2.93	< 2.93	< 58.7	< 1.47
NLA12_MN-123 Duplicate		< 500	< 40.0	< 1.50	< 6.00	< 2.10	< 10.0	< 80.0	< 15.0	< 3.00	< 3.00	< 60.0	< 1.50
NLA12_MN-126	Diamond	< 496	< 39.7	< 1.49	< 5.95	< 2.08	< 9.92	< 79.3	< 14.9	< 2.97	< 2.97	< 59.5	< 1.49
NLA12_MN-127	unnamed	< 492	< 39.4	< 1.48	< 5.90	< 2.07	< 9.84	< 78.7	K 20.2	< 2.95	< 2.95	< 59.0	< 1.48
NLA12_MN-130A	Net	< 1150	< 112	< 3.44	< 13.8	< 4.81	< 22.9	< 183	< 34.4	< 6.88	< 6.88	< 138	< 3.44
NLA12_MN-131	unnamed	< 526	< 42.1	< 1.58	< 6.31	< 2.21	< 10.5	< 84.1	< 15.8	< 3.15	< 3.15	< 63.1	< 1.58
NLA12_MN-132	Clear	< 500	< 57.6	< 1.50	< 6.00	< 2.10	< 9.99	< 80.0	< 15.0	< 3.00	< 3.00	< 60.0	< 1.50
NLA12_MN-135	Lindgren	< 498	< 39.8	< 1.49	< 5.97	< 2.09	< 9.96	< 79.6	< 14.9	< 2.99	< 2.99	< 59.7	< 1.49
NLA12_MN-136	unnamed	< 513	< 41.0	< 1.54	< 6.16	< 2.16	< 10.3	< 82.1	< 15.4	< 3.08	< 3.08	< 61.6	< 1.54
NLA12_MN-136 Blank		< 501	< 40.1	< 1.50	< 6.01	< 2.10	< 10.0	< 80.1	< 15.0	< 3.01	< 3.01	< 60.1	< 1.50
NLA12_MN-137	Cucumber	< 517	< 115	< 1.55	< 6.20	< 2.17	< 10.3	< 82.7	< 15.5	< 3.10	< 3.10	< 62.0	< 1.55
NLA12_MN-138A	Tenor	< 991	< 80.4	< 2.97	< 11.9	< 4.16	< 19.8	< 159	< 29.7	< 5.94	< 5.94	< 119	< 2.97
NLA12_MN-141	East Red River	< 512	< 41.0	< 1.54	< 6.15	< 2.15	< 10.2	< 81.9	< 15.4	< 3.07	< 3.07	< 61.5	< 1.54

Lake number	Lake name	Bisphenol A (ng/L)	Furosemide (ng/L)	Gemfibrozil (ng/L)	Glipizide (ng/L)	Glyburide (ng/L)	Hydro-chlorothiazide (ng/L)	2-Hydroxy-ibuprofen (ng/L)	Ibuprofen (ng/L)	Naproxen (ng/L)	Triclocarban (ng/L)	Triclosan (ng/L)	Warfarin (ng/L)
NLA12_MN-143	unnamed	< 521	< 41.6	< 1.56	< 6.25	< 2.19	< 10.4	< 83.3	< 15.6	< 3.12	< 3.12	< 62.5	< 1.56
NLA12_MN-144	unnamed	< 486	< 38.9	< 1.46	< 5.83	< 2.04	< 9.71	< 77.7	< 14.6	< 2.91	< 2.91	< 58.3	< 1.46
NLA12_MN-145	Terrapin	< 523	< 41.9	< 1.57	< 6.28	< 2.20	< 10.5	< 83.7	< 15.7	< 3.14	< 3.14	< 62.8	< 1.57
NLA12_MN-147	Wilbur	< 477	< 38.2	< 1.43	< 5.72	< 2.00	< 9.54	< 76.3	< 14.3	< 2.86	< 2.86	< 57.2	< 1.43
NLA12_MN-150	Spree	< 987	< 83.5	< 2.96	< 11.8	< 4.14	< 19.7	< 158	< 29.6	< 5.92	< 5.92	< 118	< 2.96
NLA12_MN-152	61-0091	< 515	< 41.2	< 1.54	< 6.17	< 2.16	< 10.3	< 82.3	< 15.4	< 3.09	< 3.09	< 61.7	< 1.54
NLA12_MN-153	Bear	< 487	< 38.9	< 1.46	< 5.84	< 2.04	< 9.74	< 77.9	< 14.6	< 2.92	< 2.92	< 58.4	< 1.46
NLA12_MN-157	Glorvigan	< 476	< 38.1	< 1.43	< 5.71	< 2.00	< 9.52	< 76.1	< 14.3	< 2.85	< 2.85	< 57.1	< 1.43
NLA12_MN-158	unnamed	< 506	< 40.5	< 1.52	< 6.07	< 2.13	< 10.1	< 81.0	< 15.2	< 3.04	< 3.04	< 60.7	< 1.52
NLA12_MN-158 Blank		< 507	< 40.5	< 1.52	< 6.08	< 2.13	< 10.1	< 81.1	< 15.2	< 3.04	< 3.04	< 60.8	< 1.52
NLA12_MN-160	unnamed	< 497	< 39.8	< 1.49	< 5.96	< 2.09	< 9.94	< 79.5	< 14.9	< 2.98	< 2.98	< 59.6	< 1.49
NLA12_MN-162	Waymier	< 493	< 39.5	< 1.48	< 5.92	< 2.07	< 9.86	< 78.9	< 14.8	< 2.96	< 2.96	< 59.2	< 1.48
NLA12_MN-163	unnamed	< 966	< 85.7	< 2.90	< 11.6	< 4.06	< 19.3	< 155	< 29.0	< 5.79	< 5.79	< 116	< 2.90
NLA12_MN-167	unnamed	< 497	< 39.7	< 1.49	< 5.96	< 2.09	< 9.94	< 79.5	< 14.9	< 2.98	< 2.98	< 59.6	< 1.49
NLA12_MN-170A	unnamed	< 478	< 38.3	< 1.44	< 5.74	< 2.01	< 9.57	< 76.5	< 14.4	< 2.87	< 2.87	< 57.4	< 1.44
NLA12_MN-171	unnamed	< 468	< 37.4	< 1.40	< 5.62	< 1.97	< 9.36	< 74.9	< 14.0	< 2.81	< 2.81	< 56.2	< 1.40
NLA12_MN-171 Blank		< 499	< 39.9	< 1.50	< 5.99	< 2.10	< 9.98	< 79.9	< 15.0	< 3.00	< 3.00	< 59.9	< 1.50
NLA12_MN-177	unnamed	< 520	< 41.6	< 1.56	< 6.24	< 2.18	< 10.4	< 83.2	< 15.6	< 3.12	< 3.12	< 62.4	< 1.56
NLA12_MN-181	unnamed	< 499	< 39.9	< 1.50	< 5.99	< 2.10	< 9.98	< 79.8	< 15.0	< 2.99	< 2.99	< 59.9	< 1.50
NLA12_MN-206	unnamed	< 965	< 92.7	< 2.90	< 11.6	< 4.05	< 19.3	< 154	< 29.0	< 5.79	< 5.79	< 116	< 2.90

* Currently receives treated domestic wastewater.

Table 8 Pharmaceuticals List 5

Lake number	Lake name	Alprazolam (ng/L)	Amitriptyline (ng/L)	Amlodipine (ng/L)	Benzoylecgonine (ng/L)	Benztropine (ng/L)	Betamethasone (ng/L)	Cocaine (ng/L)	DEET (ng/L)	Desmethyl-diltiazem (ng/L)	Diazepam (ng/L)	Fluocinonide (ng/L)	Fluticasone propionate (ng/L)	Hydrocortisone (ng/L)	10-hydroxy-amitriptyline (ng/L)	Meprobamate (ng/L)
NLA12_MN-101	Long	< 0.291	< 0.291	< 1.45	< 0.294	< 0.678	< 1.45	< 0.145	B 51.0	< 0.145	< 0.291	< 5.81	< 3.78	< 58.1	< 0.196	< 3.87
NLA12_MN-102	Spring	< 0.300	< 0.482	< 1.50	< 0.300	< 0.700	< 1.50	B 1.38	14.1	< 0.150	< 0.300	< 6.00	< 4.08	< 60.0	< 0.153	< 4.00
NLA12_MN-103	Lookout	< 0.312	0.41	< 1.56	< 0.320	< 0.729	< 1.56	1.58	45.2	< 0.156	< 0.312	< 6.25	< 2.08	< 178	< 0.156	< 4.17
NLA12_MN-104	Fairy	< 0.297	B 1.04	< 1.48	< 0.297	< 0.692	< 3.21	B 0.175	B 8.92	< 0.148	< 0.297	< 5.93	< 3.33	< 144	< 0.148	< 3.96
NLA12_MN-105	Becoosin	< 0.316	< 0.929	< 1.58	< 0.316	< 0.737	< 1.58	< 0.196	7	< 0.158	< 0.324	< 6.32	< 8.99	< 63.2	< 0.219	< 4.21
NLA12_MN-106	Darling	< 0.319	< 0.319	< 1.59	0.702	< 0.743	< 1.59	2.59	50.5	< 0.159	< 0.319	< 6.37	< 2.12	< 119	< 0.159	< 4.25
NLA12_MN-106 Duplicate		< 0.314	< 0.314	< 1.57	< 0.314	< 0.732	< 1.57	0.453	48.1	< 0.157	< 0.314	< 6.28	< 2.09	< 87.5	< 0.157	< 4.18
NLA12_MN-107	Cokato	< 0.297	< 1.06	< 1.49	< 0.297	< 0.693	< 1.49	B 0.632	13	< 0.149	< 0.297	< 5.94	< 4.44	< 59.4	< 0.149	< 3.96
NLA12_MN-108	Long	< 0.298	< 0.298	< 1.49	< 0.298	< 0.694	< 1.49	B 0.359	14.9	< 0.149	< 0.298	< 5.95	< 2.77	< 59.5	< 0.149	< 3.97
NLA12_MN-109	Richey	< 0.310	K 0.918	< 1.55	< 0.310	< 0.724	< 1.55	< 0.155	B 29.8	< 0.155	< 0.310	< 6.20	< 5.49	< 176	< 0.227	< 4.14
NLA12_MN-110	Crow Wing	< 0.307	< 0.307	< 1.53	< 0.307	< 0.715	< 1.53	< 0.153	B 97.7	< 0.153	< 0.307	< 6.13	< 3.41	< 75.0	< 0.153	< 4.09
NLA12_MN-111	Snail	< 0.306	0.528	< 1.53	< 0.658	< 0.715	< 1.53	< 0.153	59.6	< 0.153	< 0.306	< 6.13	< 3.33	< 61.3	< 0.153	< 4.08
NLA12_MN-112	Eagle	< 0.314	< 1.57	< 1.57	2.64	< 0.732	< 1.57	0.66	13.9	< 0.157	< 0.314	< 6.27	< 2.09	< 166	< 0.157	< 4.18
NLA12_MN-113	North Ash	< 0.301	K 1.76	< 1.51	< 0.449	< 0.703	< 1.51	0.219	B 6.58	< 0.151	< 0.301	< 6.03	< 3.99	< 60.3	< 0.280	< 4.02
NLA12_MN-114	Woodcock	< 0.303	4.05	< 1.52	< 0.558	< 0.707	< 1.52	< 0.152	39.9	< 0.152	< 0.303	< 6.06	< 2.02	< 401	< 0.152	< 4.04
NLA12_MN-115	Round	< 0.300	< 0.300	< 1.50	0.621	< 0.701	< 1.50	0.785	32.3	< 0.150	< 0.300	< 6.01	< 2.00	< 120	< 0.150	< 4.01
NLA12_MN-115 duplicate		< 0.311	< 0.311	< 1.56	1.49	< 0.727	< 1.56	1.41	34.8	< 0.156	< 0.311	< 6.23	< 2.08	< 144	< 0.156	< 4.15
NLA12_MN-116	Nokomis	< 0.297	K 0.756	< 1.49	0.622	0.72	< 1.49	< 0.149	B 135	< 0.149	< 0.297	< 5.94	< 2.96	< 59.4	< 0.149	< 3.96
NLA12_MN-118*	South	0.369	K 10.2	< 1.58	< 0.543	< 0.737	< 1.58	< 0.158	57.7	< 0.158	< 0.316	< 6.31	< 6.02	< 63.1	< 0.160	29.4
NLA12_MN-119	Big Stone	< 0.299	0.794	< 1.49	1.18	< 0.697	< 1.49	1.12	16.9	< 0.149	< 0.299	< 5.98	< 1.99	< 161	< 0.149	< 3.98
NLA12_MN-120	Flat	< 0.300	0.751	< 1.50	< 0.446	< 0.699	< 1.50	B 0.410	2.51	< 0.150	< 0.300	< 5.99	< 3.92	< 59.9	< 0.150	< 4.00
NLA12_MN-121	Norway	< 0.299	1.36	< 1.50	9.48	< 0.699	< 1.50	5.26	44	< 0.150	< 0.299	< 5.99	< 2.00	< 104	< 0.150	< 3.99
NLA12_MN-122	Jennie	< 0.318	< 0.398	< 1.59	2.33	< 0.742	< 1.59	B 0.347	12.4	< 0.159	< 0.318	< 6.36	< 3.06	< 63.6	< 0.159	< 4.24
NLA12_MN-123	unnamed	< 0.293	< 0.293	< 1.47	< 0.293	< 0.684	< 1.47	0.364	B 4.48	< 0.147	< 0.293	< 5.87	< 2.79	< 58.7	< 0.147	< 3.91
NLA12_MN-123 Duplicate		< 0.300	< 0.300	< 1.50	0.521	< 0.700	< 1.50	0.659	B 4.62	< 0.150	< 0.300	< 6.00	< 2.00	< 60.0	< 0.166	< 4.00
NLA12_MN-126	Diamond	< 0.297	K 0.630	< 1.49	< 0.297	< 0.694	< 1.49	B 0.724	B 6.30	< 0.149	< 0.297	< 5.95	< 3.11	< 117	< 0.215	< 3.97
NLA12_MN-127	unnamed	< 0.295	3.86	< 1.48	< 0.316	< 0.689	< 1.48	< 0.148	6.41	< 0.148	< 0.295	< 5.90	< 1.97	< 108	< 0.148	< 3.94
NLA12_MN-130A	Net	< 0.344	K 0.500	< 1.72	< 0.344	< 0.802	< 1.72	< 0.172	2.17	< 0.172	< 0.344	< 6.88	< 3.82	< 68.8	< 0.172	< 4.59
NLA12_MN-131	unnamed	< 0.315	1.04	< 1.58	0.73	< 0.736	< 1.58	0.499	6.39	< 0.158	< 0.315	< 6.31	< 2.10	< 165	< 0.158	< 4.21
NLA12_MN-132	Clear	< 0.300	< 0.898	< 1.50	< 0.300	< 0.700	< 1.50	< 0.150	8.19	< 0.150	< 0.300	< 6.00	< 5.79	< 60.0	< 0.150	< 4.00
NLA12_MN-135	Lindgren	< 0.299	D 1.73	< 1.49	1.56	< 0.697	< 1.49	1.32	10.2	< 0.149	< 0.347	< 5.97	< 1.99	< 270	< 0.149	< 3.98
NLA12_MN-136	unnamed	< 0.308	< 0.308	< 1.54	< 0.308	< 0.718	< 1.54	< 0.154	0.622	< 0.154	< 0.308	< 6.16	< 2.05	< 61.6	< 0.154	< 4.10
NLA12_MN-136 Blank		< 0.301	1.32	< 1.50	< 0.304	< 0.701	< 1.50	< 0.150	5.23	< 0.150	< 0.301	< 6.01	< 2.00	< 60.1	< 0.150	< 4.01
NLA12_MN-137	Cucumber	< 0.310	K 16.0	< 1.55	< 0.770	< 0.723	< 1.55	< 0.309	17.7	< 0.155	< 0.320	< 6.20	< 11.8	< 62.0	< 0.210	< 4.14