

ANALYTICAL REPORT

Client: Langlade Springs LLC
 Attn: Dennis Hose
 W6933 State Hwy 64
 Polar, WI 54418

NLS Project: 257828
 NLS Customer: 95246
 Phone: 715 623 9170

Project: Product Water

Plant (VOC) NLS ID: 913283

COC: 202285:1 Matrix: DW
 Collected: 04/04/16 11:10 Received: 04/04/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
SDWA Volatile Organics (VOCs) by EPA 524.2	see attached					04/06/16	EPA 524.2, Rev 4.1	721026460

Plant (IOC) NLS ID: 913284

COC: 202285:1 Matrix: DW
 Collected: 04/04/16 11:10 Received: 04/04/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Alkalinity, tot. as CaCO3 (unfiltered)	220	mg/L	2	2.0	4.0	04/05/16	2320 B-1997	721026460
Aluminum, tot. recoverable as Al by ICP-MS	ND	mg/L	1	0.0050*	0.010*	04/06/16	EPA 200.8, Rev 5.4	721026460
Antimony, tot. recoverable as Sb by ICP-MS	ND	ug/L	1	0.13*	0.25 / 6.0*	04/06/16	EPA 200.8, Rev 5.4	721026460
Arsenic, tot. recoverable as As by ICP-MS	ND	ug/L	1	0.50*	1.0 / 10*	04/06/16	EPA 200.8, Rev 5.4	721026460
Asbestos, water by TEM	ND	MF/L	1	0.19	/ 7000000	04/18/16	EPA 100.2	11839
Barium, tot. recoverable as Ba by ICP-MS	17	ug/L	1	0.10*	0.20 / 2000*	04/06/16	EPA 200.8, Rev 5.4	721026460
Beryllium, tot. recoverable as Be by ICP-MS	ND	ug/L	1	0.13*	0.25 / 4.0*	04/06/16	EPA 200.8, Rev 5.4	721026460
Cadmium, tot. recoverable as Cd by ICP-MS	ND	ug/L	1	0.10*	0.20 / 5.0*	04/06/16	EPA 200.8, Rev 5.4	721026460
Calcium, tot. recoverable as Ca by ICP-MS	57	mg/L	1	0.15*	0.30*	04/06/16	EPA 200.8, Rev 5.4	721026460
Chloride, as Cl (unfiltered)	14	mg/L	1	2.5	5.0	04/05/16	EPA 300.0, Rev 2.1	721026460
Chromium, tot. recoverable as Cr by ICP	1.7	ug/L	1	0.32	1.0 / 100	04/05/16	EPA 200.7, Rev 4.4	721026460
Copper, tot. recoverable as Cu by ICP-MS	[1.3]	ug/L	1	1.0*	2.0 / 1300*	04/06/16	EPA 200.8, Rev 5.4	721026460
Cyanide, tot. (distilled) as CN	ND	mg/L	1	0.0050	0.015 / 0.20	04/11/16	4500-CN-E-1999	721026460
Fluoride, as F (unfiltered)	0.25	mg/L	1	0.050*	0.10 / 4.0*	04/05/16	EPA 300.0, Rev 2.1	721026460
Hardness, tot. recoverable as CaCO3 (calc/unfilt/icpms)	250	mg/L	1	1.0*	2.0*	04/06/16	EPA 200.8, Rev 5.4	721026460
Iron, tot. recoverable as Fe by ICP-MS	ND	mg/L	1	0.018*	0.064*	04/06/16	EPA 200.8, Rev 5.4	721026460
Lead, tot. recoverable as Pb by ICP-MS	ND	ug/L	1	0.10*	0.20 / 15*	04/06/16	EPA 200.8, Rev 5.4	721026460
Magnesium, tot. recoverable as Mg by ICP-MS	28	mg/L	1	0.15*	0.30*	04/06/16	EPA 200.8, Rev 5.4	721026460
Manganese, tot. recoverable as Mn by ICP-MS	ND	ug/L	1	1.0*	2.0*	04/06/16	EPA 200.8, Rev 5.4	721026460
Mercury, tot. recoverable as Hg by ICP-MS	ND	ug/L	1	0.025	0.050 / 2.0	04/06/16	EPA 200.8, Rev 5.4	721026460
Nickel, tot. recoverable as Ni by ICP-MS	[0.54]	ug/L	1	0.50*	1.0 / 100*	04/06/16	EPA 200.8, Rev 5.4	721026460
Nitrate as N, corr. for NO2 (unfilt)	3.1	mg/L	1	0.050	0.10 / 10	04/05/16	EPA 300.0, Rev 2.1	721026460
Nitrogen, nitrite as N	ND	mg/L	1	0.050*	0.10 / 1.0*	04/05/16	EPA 300.0, Rev 2.1	721026460
Nitrogen, NO2 + NO3 as N (unfiltered)	3.1	mg/L	1	0.050	0.10 / 10	04/05/16	EPA 300.0, Rev 2.1	721026460
pH, Lab	7.96	s.u.	1			04/05/16	4500-H+B-2000	721026460
Selenium, tot. recoverable as Se by ICP-MS	ND	ug/L	1	2.0*	4.0 / 50*	04/06/16	EPA 200.8, Rev 5.4	721026460
Silver, tot. recoverable as Ag by ICP-MS	ND	ug/L	1	0.13*	0.25*	04/06/16	EPA 200.8, Rev 5.4	721026460
Sodium, tot. recoverable as Na by ICP	4.6	mg/L	1	0.15	0.30	04/05/16	EPA 200.7, Rev 4.4	721026460
Solids, tot. dis. (TDS)	250	mg/L	1	2.0*	2.0*	04/11/16	2540 C-1997	721026460
Sulfate, as SO4 (unfiltered)	12	mg/L	1	2.5	5.0	04/05/16	EPA 300.0, Rev 2.1	721026460
Thallium, tot. recoverable as Tl by ICP-MS	ND	ug/L	1	0.10*	0.20 / 2.0*	04/06/16	EPA 200.8, Rev 5.4	721026460
Turbidity, screening - SDWA	ND	NTU	1	1.0*	1.0*	04/05/16	EPA 180.1	721026460
Lab filtration for TDS	yes					04/11/16	EPA 160.1	721026460

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Project: Product Water

Plant (SOC) NLS ID: 913285

COC: 202285:1 Matrix: DW
 Collected: 04/04/16 11:10 Received: 04/04/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
1,2-Dibromoethane (EDB) by EPA 504.1	ND	ug/L	1	0.0041	0.014 / 0.050	04/08/16	EPA 504.1, Rev 1.1	721026460
1,2-Dibromo-3-Chloropropane (DBCP) by EPA 504.1	ND	ug/L	1	0.0047	0.016 / 0.20	04/08/16	EPA 504.1, Rev 1.1	721026460
Multi-Component Pesticides and PCBs by EPA 505	see attached					04/18/16	EPA 505, Rev 2.1	721026460
Micro extraction - (504.1)	yes					04/08/16	EPA 504.1, Rev 1.1	721026460
Micro extraction - (505)	yes					04/18/16	EPA 505, Rev 2.1	721026460
EPA 549.2 Solid Phase Extraction	yes					04/05/16	EPA 549.2, Rev 1	721026460
Endothall by EPA 548.1	ND	ug/L	1	0.51	1.7	04/06/16	EPA 548.1, Rev 1	721026460
Glyphosate by EPA 547	ND	ug/L	1	4.9	16	04/04/16	EPA 547, 1990	721026460
Carbamates by EPA 531.1	see attached					04/07/16	EPA 531.1, Rev 3.1	721026460
Cyanazine Drinking Water Analysis GC/MS by EPA 525.2	see attached					04/12/16	EPA 525.2, Rev 2	721026460
EPA 525.2 Cyanazine Solid Phase Extraction	yes					04/11/16	EPA 525.2, Rev 2	721026460
EPA 525.2 Solid Phase Extraction	yes					04/11/16	EPA 525.2, Rev 2	721026460
EPA 548.1 Solid Phase Extraction	yes					04/05/16	EPA 548.1, Rev 1	721026460
Semi-Volatile Drinking Water Analysis GC/MS by 525.2	see attached					04/12/16	EPA 525.2, Rev 2	721026460
Diquat (DW) by EPA 549.2	ND	ug/L	1	0.37	1.2	04/07/16	EPA 549.2, Rev 1	721026460
Acid Herbicides (DW) by EPA 515.3	see attached					04/13/16	EPA 515.3	632021390
2,3,7,8-TCDD (Dioxin) EPA1613	ND	pg/L	1	5.0*	5.0*	04/11/16	EPA 1613B	999407970

Trip Blank NLS ID: 913286

COC: 202285:2 Matrix: TB
 Collected: 04/04/16 00:00 Received: 04/04/16

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
SDWA Volatile Organics (VOCs) by EPA 524.2	see attached					04/06/16	EPA 524.2	721026460
1,2-Dibromoethane (EDB) by EPA 504.1	not analyzed		1			04/08/16	EPA 504.1	721026460
1,2-Dibromo-3-Chloropropane (DBCP) by EPA 504.1	not analyzed		1			04/08/16	EPA 504.1	721026460
Micro extraction - (504.1)	not analyzed					04/08/16	EPA 504.1	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable
 DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President