

# Wisconsin Department of Natural Resources Laboratory Report

8/15/2023

Lab FID: 113133790

Sample ID: 691167001

**Laboratory:** Wisconsin State Laboratory of Hygiene

**DNR ID:** 113133790

PO Box 7996

2601 Agriculture Dr

Madison WI 53718

Phone: 608-224-6203

Fax: 608-224-6213

**Sample:**

Field #: AM1

Sample #: 691167001

Collection Start: 7/25/2023 10:35:00 AM

Collection End: 7/25/2023 10:45:00 AM

Collected By: ARTHUR RYZAK

ID #:

Waterbody/Outfall Id:

County: Marathon

ID Point #: OUTFALL 017

Sample Location: AHLSTROM MUNKSJO NA  
SPECIALTY SOLUTIONS,  
LLC- 515 W DAVENPORT  
AVE, RHINELANDER

Account #: WW017

Sample Description: AHLSTROM MUNKSJO CAKE  
SLUDGE CONCRETE PAD-  
COMPOSITE

Site Description:

Sample Source: Sludge

Sample Depth: 2-12IN

Date Reported: 8/14/2023

Sample Status: CORRECTED

Project No:

Sample Reason:

**Comment:** Sample results are reported based on the dry weight of the sample. Results have been adjusted to account for the sample's moisture content. The internal standard peak does not meet the 10:1 noise requirement for N-EtFOSE. No data is being reported for this analyte. Due to the sample's composition, less than the default 10 grams were extracted. Sample results and limits have been adjusted accordingly.

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment				Sample ID: 691167001
WSLH PFAS in Solids		8/10/2023					
Code	Description	Result	Units	LOD	Report Limit	LOQ	
97380	Perfluoro-n-decanesulfonic acid	<0.0849	ng/g	0.0849		0.189	
97357	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0660	ng/g	0.0660		0.189	
97364	Perfluoro-n-dodecanoic acid	0.286	ng/g	0.0943		0.189	
97379	Perfluorododecanesulfonic acid	<0.123	ng/g	0.123		0.472	
97363	Perfluoro-n-tridecanoic acid	0.108	ng/g	0.0754		0.189	
97099	N-methyl perfluorooctanesulfonamide	<0.189	ng/g	0.189		0.472	

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97097	N-Methyl perfluorooctanesulfonamid oethanol	<0.0366	ng/g	0.151		0.472
97098	N-ethyl perfluorooctanesulfonamid e	0.236	ng/g	0.113		0.472
97362	Perfluoro-n-tetradecanoic acid	0.129	ng/g	0.0849		0.189
97371	Perfluoro-n-butanoic acid	<0.113	ng/g	0.113		0.472
97370	Perfluoro-n-pentanoic acid	<0.0660	ng/g	0.0660		0.189
97390	Perfluoro-n-butanefulfonic acid	<0.0566	ng/g	0.0566		0.189
97376	4:2 Fluorotelomer sulfonic acid	<0.151	ng/g	0.151		0.472
97369	Perfluoro-n-hexanoic acid	0.238	ng/g	0.0943		0.189
97386	Perfluoropentanesulfonic acid	<0.0660	ng/g	0.0660		0.189
97359	Hexafluoropropylene oxide dimer acid	<0.0943	ng/g	0.0943		0.189
97368	Perfluoro-n-heptanoic acid	<0.0566	ng/g	0.0566		0.189
97385	Perfluoro-n-hexanesulfonic acid	<0.0566	ng/g	0.0566		0.189
97358	4,8-Dioxa-3H- perfluorononanoic acid	<0.0660	ng/g	0.0660		0.189
97375	6:2 Fluorotelomer sulfonic acid	<0.0849	ng/g	0.0849		0.189
97382	Perfluoro-n-octanoic acid	0.342	ng/g	0.0754		0.189
97384	Perfluoro-n- heptanesulfonic acid	<0.0472	ng/g	0.0472		0.189
97383	Perfluoro-n-octanesulfonic acid	1.67	ng/g	0.0566		0.189
97367	Perfluoro-n-nonanoic acid	0.191	ng/g	0.0660		0.189
97372	9-Chlorohexadecafluoro-3- oxanonane-1-sulfonic acid	<0.113	ng/g	0.113		0.472
97374	8:2 Fluorotelomer sulfonic acid	0.818	ng/g	0.0660		0.189
97366	Perfluoro-n-decanoic acid	0.440	ng/g	0.0849		0.189
97381	Perfluorononanesulfonic acid	<0.0754	ng/g	0.0754		0.189
97378	N-methyl perfluorooctanesulfonamid oacetic acid	0.0773	ng/g	0.0754		0.189
97377	N-ethyl perfluorooctanesulfonamid oacetic acid	3.43	ng/g	0.0943		0.189
97100	Perfluorooctanesulfonamid e	0.550	ng/g	0.0849		0.189
97365	Perfluoro-n-undecanoic acid	0.318	ng/g	0.141		0.472

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<i>Analysis Method</i>		<i>Analysis Date</i>		<i>Lab Comment</i>		Sample ID: 691167001
<b>EPA 160.3</b>		<b>8/7/2023</b>				
<i>Code</i>	<i>Description</i>	<i>Result</i>	<i>Units</i>	<i>LOD</i>	<i>Report Limit</i>	<i>LOQ</i>
<b>70318</b>	<b>SOLIDS PERCENT</b>	<b>20.7</b>	<b>%</b>	0.00200		0.00200

# Wisconsin Department of Natural Resources Laboratory Report

8/15/2023

Lab FID: 113133790

Sample ID: 691172001

**Laboratory:** Wisconsin State Laboratory of Hygiene

**DNR ID:** 113133790

PO Box 7996

2601 Agriculture Dr

Madison WI 53718

Phone: 608-224-6203

Fax: 608-224-6213

**Sample:**

Field #: EB1

Sample #: 691172001

Collection Start: 7/25/2023 10:30:00 AM

Collection End: 7/25/2023 10:35:00 AM

Collected By: ARTHUR RYZAK

ID #:

Waterbody/Outfall Id:

County: Marathon

ID Point #: OUTFALL 017

Sample Location: AHLSTROM MUNKSJO NA  
SPECIALTY SOLUTIONS,  
LLC- 515 W DAVENPORT  
AVE, RHINELANDER

Account #: WW017

Sample Description: AHLSTROM MUNKSJO CAKE  
SLUDGE CONCRETE PAD -  
COMPOSITE

Site Description:

Sample Source: Sludge

Sample Depth:

Date Reported: 8/8/2023

Sample Status: COMPLETE

Project No:

Sample Reason:

Comment: EQUIPMENT BLANK.

**Analyses and Results:**

Analysis Method		Analysis Date	Lab Comment		Sample ID: 691172001	
WSLH PFAS in Water		8/1/2023				
Code	Description	Result	Units	LOD	Report Limit	LOQ
97420	N-ethyl perfluorooctanesulfonamide	<0.342	ng/L	0.342		1.03
97416	N-Ethyl perfluorooctanesulfonamide ethanol	<0.379	ng/L	0.379		1.03
99924	PERFLOURO-N-TETRADECANOIC ACID	<0.266	ng/L	0.266		1.03
99991	PERFLUORO-N-BUTANOIC ACID	<0.730	ng/L	0.730		2.06
99992	PERFLUORO-N-PENTANOIC ACID	<0.292	ng/L	0.292		1.03
99987	Perfluoro-n-butanesulfonic acid	<0.225	ng/L	0.225		1.03
97415	4:2 Fluorotelomer sulfonic acid	<0.220	ng/L	0.220		1.03
99993	PERFLUORO-N-HEXANOIC ACID	<0.347	ng/L	0.347		1.03

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97425	Perfluoropentanesulfonic acid	<0.192	ng/L	0.192		1.03
97435	Hexafluoropropylene oxide dimer acid	<0.232	ng/L	0.232		1.03
99994	PERFLUORO-N-HEPTANOIC ACID	<0.325	ng/L	0.325		1.03
99988	Perfluoro-n-hexanesulfonic acid	<0.188	ng/L	0.188		1.03
97434	4,8-Dioxa-3H-perfluorononanoic acid	<0.305	ng/L	0.305		1.03
97414	6:2 Fluorotelomer sulfonic acid	<0.251	ng/L	0.251		1.03
99597	Perfluoro-n-octanoic acid	<0.253	ng/L	0.253		1.03
99989	Perfluoro-n-heptanesulfonic acid	<0.226	ng/L	0.226		1.03
99598	Perfluoro-n-octanesulfonic acid	<0.341	ng/L	0.341		1.03
99995	PERFLUORO-N-NONANOIC ACID	<0.281	ng/L	0.281		1.03
97432	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	<0.197	ng/L	0.197		1.03
97413	8:2 Fluorotelomer sulfonic acid	<0.153	ng/L	0.153		1.03
99996	PERFLUORO-N-DECANOIC ACID	<0.288	ng/L	0.288		1.03
97424	Perfluorononanesulfonic acid	<0.195	ng/L	0.195		1.03
97437	N-methyl perfluorooctanesulfonamide acetic acid	<0.348	ng/L	0.348		1.03
97436	N-ethyl perfluorooctanesulfonamide acetic acid	<0.205	ng/L	0.205		1.03
97422	Perfluorooctanesulfonamide	<0.189	ng/L	0.189		1.03
99997	PERFLUORO-N-UNDECANOIC ACID	<0.259	ng/L	0.259		1.03
99990	Perfluoro-n-decanesulfonic acid	<0.308	ng/L	0.308		1.03
97433	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.192	ng/L	0.192		1.03
99998	PERFLUORO-N-DODECANOIC ACID	<0.263	ng/L	0.263		1.03
97423	Perfluorododecanesulfonic acid	<0.408	ng/L	0.408		1.03
99923	PERFLUORO-N-TRIDECANOIC ACID	<0.401	ng/L	0.401		1.03
97421	N-methyl perfluorooctanesulfonamide	<0.400	ng/L	0.400		1.03
97417	N-Methyl perfluorooctanesulfonamide ethanol	<0.241	ng/L	0.241		1.03