

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV001

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV001 WYDEQ #: TCE-21-165-1PVD  
Waterbody and Location: Worthen Reservoir - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 6/14/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.012 Concentration: 1.2:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	4	4	3	1	6310	6310	4732	1577	6309
Fragilaria	3	3	3	0	4732	4732	4732	0	4732
Tabellaria	1	1	1	0	1577	1577	1577	0	1577
<b>Chlorophyta</b>									
Cosmarium	1	1	1	0	1577	1577	1577	0	1577
Monoraphidium	12	12	12	0	18929	18929	18929	0	18929
Oocystis	1	4	4	0	1577	6310	6310	0	6310
Roya	292	292	292	0	460604	460604	460604	0	460604
Staurostrum	1	1	1	0	1577	1577	1577	0	1577
<b>Cryptophyta</b>									
Cryptomonas	3	3	3	0	4732	4732	4732	0	4732
<b>TOTAL:</b>	318	321	320	1	501,615	506,348	504,770	1,577	506,347

Concentrated 100ml to 1.2mL = 0.0120DCF 62 FOV 20X scan: no new taxa

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV002

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV002 WYDEQ #: TCE-21-165-2PVD  
Waterbody and Location: Frye Lake - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 6/14/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.01 Concentration: 1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	1	1	1	0	4289	4289	4289	0	4289
Nitzschia	2	2	2	0	8579	8579	8579	0	8579
<b>Chlorophyta</b>									
Monoraphidium	69	69	69	0	295972	295972	295972	0	295972
Roya	211	211	211	0	905074	905074	905074	0	905074
<b>Chrysophyta</b>									
Dinobryon	30	41	13	28	128684	175868	55763	120105	175868
<b>Euglenophyta</b>									
Euglena	1	1	1	0	4289	4289	4289	0	4289
<b>TOTAL:</b>	314	325	297	28	1,346,887	1,394,071	1,273,966	120,105	1,394,071

Concentrated 100ml to 1mL = 0.0100DCF 19 FOV 20X scan: Copepod nauplii 1 Cryptomonas 1NU, 1Cell, 1Live Polyarthra 1

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV003

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV003 WYDEQ #: TCE-21-166-1PVD  
Waterbody and Location: Brooks Lake - Outlet Quad  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 6/15/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.012 Concentration: 1.2:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Diploneis	1	1	0	1	978	978	0	978	978
Encyonema	2	2	2	0	1956	1956	1956	0	1956
Fragilaria	2	2	2	0	1956	1956	1956	0	1956
Gomphonema	1	1	1	0	978	978	978	0	978
Navicula	5	5	1	4	4890	4890	978	3912	4890
Stephanodiscus	7	7	6	1	6846	6846	5868	978	6846
<b>Chlorophyta</b>									
Oocystis	1	4	4	0	978	3912	3912	0	3912
<b>Copepoda</b>									
Copepoda: nauplius	4	4	4	0	3912	3912	3912	0	3912
<b>Cryptophyta</b>									
Cryptomonas	2	2	2	0	1956	1956	1956	0	1956
<b>TOTAL:</b>	25	28	22	6	24,450	27,384	21,516	5,868	27,384

Small centric diatoms (8um) abundant Concentrated 100ml to 1.2mL = 0.0120DCF 100 FOV (max effort) 20X scan: No new taxa

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV004

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV004

WYDEQ #: TCE-21-166-2PVD

Waterbody and Location: Brooks Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 6/15/2021

Analysis Date: 2/2/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Aulacoseira	4	4	4	0	3912	3912	3912	0	3912
Cocconeis	1	1	0	1	978	978	0	978	978
Cymbella	1	1	1	0	978	978	978	0	978
Stephanodiscus	3	3	3	0	2934	2934	2934	0	2934
<b>Chlorophyta</b>									
Oocystis	2	8	8	0	1956	7824	7824	0	7824
<b>Cryptophyta</b>									
Cryptomonas	4	4	4	0	3912	3912	3912	0	3912
<b>Cyanophyta</b>									
Leptolyngbya	1	50	50	0	978	48900	48900	0	48900
<b>Pyrrophyta</b>									
Undetermined Dinoflagellate	4	4	4	0	3912	3912	3912	0	3912
<b>TOTAL:</b>	20	75	74	1	19,560	73,350	72,372	978	73,350

Small centric diatoms (8um) abundant Concentrated 100ml to 1.2mL = 0.0120DCF 100 FOV (max effort) 20X scan: Pinnularia 2NU,2cell,0live  
Dolichospermum:1NU,10cell,10live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV005

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV005 WYDEQ #: TCE-21-166-3PVD  
Waterbody and Location: Brooks Lake - Deepest DUP  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 6/15/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.012 Concentration: 1.2:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Encyonema	1	1	0	1	978	978	0	978	978
Fragilaria	5	5	4	1	4890	4890	3912	978	4890
Hannaea	1	1	0	1	978	978	0	978	978
Nitzschia	1	1	0	1	978	978	0	978	978
Stephanodiscus	3	3	3	0	2934	2934	2934	0	2934
<b>Chlorophyta</b>									
Monoraphidium	2	2	2	0	1956	1956	1956	0	1956
Oocystis	2	8	8	0	1956	7824	7824	0	7824
<b>Cryptophyta</b>									
Cryptomonas	6	6	6	0	5868	5868	5868	0	5868
<b>Cyanophyta</b>									
Dolichospermum	1	8	8	0	978	7824	7824	0	7824
<b>Pyrrhophyta</b>									
Undetermined Dinoflagellate	3	3	3	0	2934	2934	2934	0	2934

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV005

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV005

WYDEQ #: TCE-21-166-3PVD

Waterbody and Location: Brooks Lake - Deepest DUP

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 6/15/2021

Analysis Date: 2/2/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>TOTAL:</b>	25	38	34	4	24,450	37,164	33,252	3,912	37,164

Small centric diatoms (8um) abundant Concentrated 100ml to 1.2mL = 0.0120DCF 100 FOV (max effort) 20X scan: Ulothrix 1NU,30cell,30live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV006

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV006 WYDEQ #: TCE-21-166-4PVD  
Waterbody and Location: Brooks Lake - NW Quad  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 6/15/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.01 Concentration: 1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Encyonema	1	1	1	0	815	815	815	0	815
Fragilaria	2	2	2	0	1630	1630	1630	0	1630
Hannaea	1	1	0	1	815	815	0	815	815
Nitzschia	3	3	1	2	2445	2445	815	1630	2445
Stephanodiscus	4	4	4	0	3260	3260	3260	0	3260
<b>Cryptophyta</b>									
Cryptomonas	7	7	7	0	5705	5705	5705	0	5705
<b>Cyanophyta</b>									
Dolichospermum	1	20	20	0	815	16300	16300	0	16300
<b>Pyrrhophyta</b>									
Undetermined Dinoflagellate	1	1	1	0	815	815	815	0	815
<b>TOTAL:</b>	20	39	36	3	16,300	31,785	29,340	2,445	31,785

Small centric diatoms (8um) abundant Concentrated 100ml to 1mL = 0.0100DCF 100 FOV (max effort) 20X scan: Aulacoseira 10NU,10cell,10live Nauplii 1

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV007

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV007 WYDEQ #: TCE-21-200-1PVD  
Waterbody and Location: Worthen Reservoir - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 7/19/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.011 Concentration: 1.1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	5	5	5	0	4482	4482	4482	0	4482
Tabellaria	1	1	1	0	896	896	896	0	896
<b>Chlorophyta</b>									
Botryococcus	2	100	100	0	1793	89650	89650	0	89650
Cosmarium	1	1	1	0	896	896	896	0	896
Oocystis	1	2	2	0	896	1793	1793	0	1793
Scenedesmus	3	12	12	0	2689	10758	10758	0	10758
Sphaerocystis	1	32	32	0	896	28688	28688	0	28688
<b>Chrysophyta</b>									
Dinobryon	11	34	15	19	9861	30481	13447	17033	30480
<b>Cryptophyta</b>									
Cryptomonas	3	3	3	0	2689	2689	2689	0	2689
<b>TOTAL:</b>	28	190	171	19	25,098	170,333	153,299	17,033	170,332

Oocystis sp (14um) abundant Concentrated 100ml to 1.1mL = 0.0110DCF 100 FOV (max effort) 20X scan: Nauplii 1



Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV008

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV008 WYDEQ #: TCE-21-200-2PVD  
Waterbody and Location: Worthen Reservoir - Deepest DUP  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 7/19/2021 Analysis Date: 2/2/2022  
Dilution/Concentration factor: 0.013 Concentration: 1.3:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	9	9	9	0	9535	9535	9535	0	9535
<b>Chlorophyta</b>									
Oocystis	1	4	4	0	1059	4238	4238	0	4238
Scenedesmus	2	8	8	0	2119	8476	8476	0	8476
Sphaerocystis	2	54	54	0	2119	57213	57213	0	57213
<b>Chrysophyta</b>									
Dinobryon	9	31	11	20	9535	32844	11654	21190	32844
<b>Cryptophyta</b>									
Cryptomonas	4	4	4	0	4238	4238	4238	0	4238
<b>Rotifera</b>									
Polyarthra	1	1	1	0	1059	1059	1059	0	1059
<b>TOTAL:</b>	28	111	91	20	29,664	117,603	96,413	21,190	117,603

Oocystis sp (14um) abundant Concentrated 100ml to 1.3mL = 0.0130DCF 100 FOV (max effort) 20X scan: Tabellaria 1NU,1cell,1live

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV009

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV009

WYDEQ #: TCE-21-200-3PVD

Waterbody and Location: Frye Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 7/19/2021

Analysis Date: 2/3/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	82	82	81	1	80196	80196	79218	978	80196
Tabellaria	3	3	3	0	2934	2934	2934	0	2934
<b>Chlorophyta</b>									
Cosmarium	1	1	1	0	978	978	978	0	978
Monoraphidium	11	11	11	0	10758	10758	10758	0	10758
Scenedesmus	1	1	1	0	978	978	978	0	978
Schroederia	2	2	2	0	1956	1956	1956	0	1956
Sphaerocystis	1	4	4	0	978	3912	3912	0	3912
<b>Chrysophyta</b>									
Dinobryon	3	7	3	4	2934	6846	2934	3912	6846
<b>Cryptophyta</b>									
Cryptomonas	3	3	3	0	2934	2934	2934	0	2934
<b>Pyrrhophyta</b>									
Undetermined Dinoflagellate	4	4	4	0	3912	3912	3912	0	3912

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV009

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV009

WYDEQ #: TCE-21-200-3PVD

Waterbody and Location: Frye Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 7/19/2021

Analysis Date: 2/3/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>TOTAL:</b>	111	118	113	5	108,558	115,404	110,514	4,890	115,404

Oocystis sp (14um) abundant Concentrated 100ml to 1.2mL = 0.0120DCF 100 FOV (max effort) 20X scan: Copepod 1

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV010

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV010

WYDEQ #: MJW-21-201-1PVD

Waterbody and Location: Brooks Lake - NW Quad

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 7/20/2021

Analysis Date: 2/3/2022

Dilution/Concentration factor: 0.011

Concentration: 1.1:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	3	3	3	0	2689	2689	2689	0	2689
Stephanodiscus	119	119	118	1	106683	106683	105786	896	106682
<b>Chlorophyta</b>									
Oocystis	6	152	152	0	5379	136267	136267	0	136267
Planktosphaeria	4	4	4	0	3586	3586	3586	0	3586
Sphaerocystis	11	96	96	0	9861	86064	86064	0	86064
Staurostrum	1	1	1	0	896	896	896	0	896
<b>Cryptophyta</b>									
Cryptomonas	4	4	4	0	3586	3586	3586	0	3586
<b>Cyanophyta</b>									
Aphanizomenon	37	557	557	0	33170	499348	499348	0	499348
Aphanocapsa	10	1050	1050	0	8965	941320	941320	0	941320
Dolichospermum	46	2760	2760	0	41239	2474328	2474328	0	2474328

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV010

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV010

WYDEQ #: MJW-21-201-1PVD

Waterbody and Location: Brooks Lake - NW Quad

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 7/20/2021

Analysis Date: 2/3/2022

Dilution/Concentration factor: 0.011

Concentration: 1.1:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>TOTAL:</b>	241	4,746	4,745	1	216,054	4,254,767	4,253,870	896	4,254,766

Concentrated 100ml to 1.1mL = 0.0110DCF 100 FOV (max effort) 20X scan: no new taxa

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV011

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV011

WYDEQ #: MJW-21-201-2PVD

Waterbody and Location: Brooks Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 7/20/2021

Analysis Date: 2/3/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	33	33	33	0	32274	32274	32274	0	32274
Stephanodiscus	106	106	102	4	103667	103667	99756	3912	103668
Tabellaria	1	1	0	1	978	978	0	978	978
<b>Chlorophyta</b>									
Oocystis	6	36	36	0	5868	35208	35208	0	35208
Planktosphaeria	1	1	1	0	978	978	978	0	978
Sphaerocystis	8	68	68	0	7824	66504	66504	0	66504
<b>Cladocera</b>									
Daphnia	1	1	1	0	978	978	978	0	978
<b>Cryptophyta</b>									
Cryptomonas	2	2	2	0	1956	1956	1956	0	1956
<b>Cyanophyta</b>									
Aphanizomenon	24	639	639	0	23472	624939	624939	0	624939
Aphanocapsa	5	650	650	0	4890	635697	635697	0	635697

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV011

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV011 WYDEQ #: MJW-21-201-2PVD  
Waterbody and Location: Brooks Lake - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 7/20/2021 Analysis Date: 2/3/2022  
Dilution/Concentration factor: 0.012 Concentration: 1.2:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Dolichospermum	28	983	983	0	27384	961369	961369	0	961369
<b>TOTAL:</b>	215	2,520	2,515	5	210,269	2,464,548	2,459,659	4,890	2,464,549

Concentrated 100ml to 1.2mL = 0.0120DCF 100 FOV (max effort) 20X scan: Staurastrum 1NU,1cell,1live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV012

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV012 WYDEQ #: MJW-21-201-3PVD  
Waterbody and Location: Brooks Lake - Outlet Quad  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 7/20/2021 Analysis Date: 2/4/2022  
Dilution/Concentration factor: 0.01 Concentration: 1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	40	40	40	0	32600	32600	32600	0	32600
Sellaphora	1	1	0	1	815	815	0	815	815
Stephanodiscus	136	136	128	8	110839	110839	104319	6520	110839
<b>Chlorophyta</b>									
Dictyosphaerium	1	64	64	0	815	52160	52160	0	52160
Oocystis	1	8	8	0	815	6520	6520	0	6520
Sphaerocystis	8	126	126	0	6520	102689	102689	0	102689
<b>Cryptophyta</b>									
Cryptomonas	3	3	3	0	2445	2445	2445	0	2445
<b>Cyanophyta</b>									
Aphanizomenon	15	422	422	0	12225	343928	343928	0	343928
Aphanocapsa	15	3000	3000	0	12225	2444988	2444988	0	2444988
Dolichospermum	22	1467	1467	0	17930	1195599	1195599	0	1195599



Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV012

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV012 WYDEQ #: MJW-21-201-3PVD  
Waterbody and Location: Brooks Lake - Outlet Quad  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 7/20/2021 Analysis Date: 2/4/2022  
Dilution/Concentration factor: 0.01 Concentration: 1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
TOTAL:	242	5,267	5,258	9	197,229	4,292,583	4,285,248	7,335	4,292,583

Concentrated 100ml to 1mL = 0.0100DCF 100 FOV (max effort) 20X scan: Staurastrum 1NU,1cell,1live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV013

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV013

WYDEQ #: TCE-21-236-1PVD

Waterbody and Location: Brooks Lake - NW Quad

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 8/24/2021

Analysis Date: 2/4/2022

Dilution/Concentration factor: 0.05

Concentration: 5:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	1	1	1	0	5292	5292	5292	0	5292
Stephanodiscus	11	11	11	0	58214	58214	58214	0	58214
<b>Chlorophyta</b>									
Dictyosphaerium	1	6	6	0	5292	31753	31753	0	31753
Oocystis	2	8	8	0	10584	42337	42337	0	42337
Staurostrum	4	4	4	0	21169	21169	21169	0	21169
<b>Cryptophyta</b>									
Cryptomonas	5	5	5	0	26461	26461	26461	0	26461
<b>Cyanophyta</b>									
Aphanizomenon	225	6623	6623	0	1190741	35050117	35050117	0	35050117
Dolichospermum	55	2167	2167	0	291070	11468157	11468157	0	11468157
<b>TOTAL:</b>	304	8,825	8,825	0	1,608,823	46,703,500	46,703,500	0	46,703,500

Concentrated 100ml to 5mL = 0.0500DCF 77 FOV 20X scan: no new taxa

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV014

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV014

WYDEQ #: TCE-21-236-2PVD

Waterbody and Location: Brooks Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 8/24/2021

Analysis Date: 2/4/2022

Dilution/Concentration factor: 0.05

Concentration: 5:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	1	1	1	0	5821	5821	5821	0	5821
Stephanodiscus	11	11	11	0	64035	64035	64035	0	64035
<b>Chlorophyta</b>									
Staurostrum	1	1	1	0	5821	5821	5821	0	5821
<b>Cryptophyta</b>									
Cryptomonas	5	5	5	0	29107	29107	29107	0	29107
<b>Cyanophyta</b>									
Aphanizomenon	215	6652	6652	0	1251601	38723949	38723949	0	38723949
Aphanocapsa	4	375	375	0	23286	2183025	2183025	0	2183025
Dolichospermum	68	721	721	0	395855	4197229	4197229	0	4197229
<b>TOTAL:</b>	305	7,766	7,766	0	1,775,526	45,208,987	45,208,987	0	45,208,987

Concentrated 100ml to 5mL = 0.0500DCF 70 FOV 20X scan: Fragilaria 15NU,15cell,15live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV015

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV015 WYDEQ #: TCE-21-236-3PVD  
Waterbody and Location: Brooks Lake - Deepest DUP  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 8/24/2021 Analysis Date: 2/4/2022  
Dilution/Concentration factor: 0.05 Concentration: 5:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Stephanodiscus	13	13	13	0	61599	61599	61599	0	61599
<b>Cryptophyta</b>									
Cryptomonas	9	9	9	0	42645	42645	42645	0	42645
<b>Cyanophyta</b>									
Aphanizomenon	227	5902	5902	0	1075605	27965732	27965732	0	27965732
Aphanocapsa	2	125	125	0	9477	592294	592294	0	592294
Dolichospermum	55	2536	2536	0	260609	12016452	12016452	0	12016452
<b>Rotifera</b>									
Keratella	1	1	1	0	4738	4738	4738	0	4738
<b>TOTAL:</b>	307	8,586	8,586	0	1,454,673	40,683,460	40,683,460	0	40,683,460

Concentrated 100ml to 5mL = 0.0500DCF 86 FOV 20X scan: Staurastrum 1NU,1cell,1live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV016

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV016 WYDEQ #: TCE-21-236-4PVD  
Waterbody and Location: Brooks Lake - Outlet Quad  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 8/24/2021 Analysis Date: 2/4/2022  
Dilution/Concentration factor: 0.05 Concentration: 5:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	12	12	12	0	48900	48900	48900	0	48900
Stephanodiscus	11	11	10	1	44825	44825	40750	4075	44825
<b>Chlorophyta</b>									
Oocystis	1	4	4	0	4075	16300	16300	0	16300
Staurostrum	1	1	1	0	4075	4075	4075	0	4075
<b>Cryptophyta</b>									
Cryptomonas	5	5	5	0	20375	20375	20375	0	20375
<b>Cyanophyta</b>									
Aphanizomenon	173	5363	5363	0	704971	21854116	21854116	0	21854116
Aphanocapsa	4	900	900	0	16300	3667482	3667482	0	3667482
Dolichospermum	62	2554	2554	0	252649	10407498	10407498	0	10407498
<b>TOTAL:</b>	269	8,850	8,849	1	1,096,170	36,063,571	36,059,496	4,075	36,063,571

Concentrated 100ml to 5mL = 0.0500DCF 100 FOV (max effort) 20X scan: no new taxa

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV017

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV017

WYDEQ #: TCE-21-251-1PVD

Waterbody and Location: Worthen Reservoir - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 9/8/2021

Analysis Date: 2/4/2022

Dilution/Concentration factor: 0.01

Concentration: 1:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Asterionella	4	4	4	0	3260	3260	3260	0	3260
Fragilaria	2	2	2	0	1630	1630	1630	0	1630
<b>Chlorophyta</b>									
Cosmarium	2	2	2	0	1630	1630	1630	0	1630
Dictyosphaerium	1	12	12	0	815	9780	9780	0	9780
Monoraphidium	11	11	11	0	8965	8965	8965	0	8965
Oocystis	6	16	16	0	4890	13040	13040	0	13040
Scenedesmus	1	4	4	0	815	3260	3260	0	3260
Sphaerocystis	3	15	15	0	2445	12225	12225	0	12225
Staurastrum	2	2	2	0	1630	1630	1630	0	1630
Teilingia	2	8	8	0	1630	6520	6520	0	6520
<b>Cryptophyta</b>									
Cryptomonas	2	2	2	0	1630	1630	1630	0	1630
<b>Cyanophyta</b>									

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV017

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV017 WYDEQ #: TCE-21-251-1PVD  
Waterbody and Location: Worthen Reservoir - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 9/8/2021 Analysis Date: 2/4/2022  
Dilution/Concentration factor: 0.01 Concentration: 1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Aphanizomenon	4	165	165	0	3260	134474	134474	0	134474
Aphanocapsa	1	300	300	0	815	244499	244499	0	244499
Aphanothece	12	1400	1400	0	9780	1140994	1140994	0	1140994
Chroococcus	2	12	12	0	1630	9780	9780	0	9780
Dolichospermum	2	16	16	0	1630	13040	13040	0	13040
<b>Pyrrhophyta</b>									
Undetermined Dinoflagellate	1	1	1	0	815	815	815	0	815
<b>TOTAL:</b>	58	1,972	1,972	0	47,270	1,607,172	1,607,172	0	1,607,172

Oocystis sp (14um) abundant Concentrated 100ml to 1mL = 0.0100DCF 100 FOV (max effort) 20X scan: Lagerheimia 1NU,1cell,1live Gomphonema 1NU,1cell,1live Nauplia 1 Polyarthra 1

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV018

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV018

WYDEQ #: TCE-21-251-2PVD

Waterbody and Location: Frye Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 9/8/2021

Analysis Date: 2/6/2022

Dilution/Concentration factor: 0.01

Concentration: 1:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	6	6	5	1	4890	4890	4075	815	4890
Navicula	1	1	0	1	815	815	0	815	815
Nitzschia	2	2	0	2	1630	1630	0	1630	1630
<b>Chlorophyta</b>									
Cosmarium	1	1	1	0	815	815	815	0	815
Elakatothrix	1	2	2	0	815	1630	1630	0	1630
Monoraphidium	3	3	3	0	2445	2445	2445	0	2445
Oocystis	2	6	6	0	1630	4890	4890	0	4890
Scenedesmus	1	4	4	0	815	3260	3260	0	3260
Schroederia	3	3	3	0	2445	2445	2445	0	2445
Sphaerocystis	3	20	20	0	2445	16300	16300	0	16300
Teilingia	5	20	20	0	4075	16300	16300	0	16300
<b>Cryptophyta</b>									
Cryptomonas	8	8	8	0	6520	6520	6520	0	6520



Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV018

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV018 WYDEQ #: TCE-21-251-2PVD  
Waterbody and Location: Frye Lake - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 9/8/2021 Analysis Date: 2/6/2022  
Dilution/Concentration factor: 0.01 Concentration: 1:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Cyanophyta</b>									
Aphanizomenon	2	28	28	0	1630	22820	22820	0	22820
Aphanocapsa	2	200	200	0	1630	162999	162999	0	162999
Dolichospermum	5	133	133	0	4075	108394	108394	0	108394
<b>Euglenophyta</b>									
Euglena	1	1	1	0	815	815	815	0	815
<b>Pyrrophyta</b>									
Undetermined Dinoflagellate	2	2	2	0	1630	1630	1630	0	1630
<b>Rotifera</b>									
Polyarthra	1	1	1	0	815	815	815	0	815
<b>TOTAL:</b>	49	441	437	4	39,935	359,413	356,153	3,260	359,413

Oocystis sp (14um) abundant Concentrated 100ml to 1mL = 0.0100DCF 100 FOV (max effort) 20X scan: Keratella 1

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV019

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV019

WYDEQ #: TCE-21-264-1PVD

Waterbody and Location: Brooks Lake - Outlet Quad

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 9/21/2021

Analysis Date: 2/7/2022

Dilution/Concentration factor: 0.05

Concentration: 5:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Stephanodiscus	1	1	0	1	6468	6468	0	6468	6468
<b>Chlorophyta</b>									
Cosmarium	1	1	1	0	6468	6468	6468	0	6468
Sphaerocystis	1	8	8	0	6468	51746	51746	0	51746
Staurostrum	13	13	13	0	84087	84087	84087	0	84087
<b>Cladocera</b>									
Daphnia	1	1	1	0	6468	6468	6468	0	6468
<b>Cryptophyta</b>									
Cryptomonas	2	2	2	0	12936	12936	12936	0	12936
<b>Cyanophyta</b>									
Aphanizomenon	285	10688	10000	688	1843443	69132353	64682216	4450136	69132352
Dolichospermum	1	200	200	0	6468	1293644	1293644	0	1293644
<b>TOTAL:</b>	305	10,914	10,225	689	1,972,806	70,594,170	66,137,565	4,456,604	70,594,169

Concentrated 100ml to 5mL = 0.0500DCF 63 FOV 20X scan: no new taxa

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV020

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV020 WYDEQ #: TCE-21-264-2PVD  
Waterbody and Location: Brooks Lake - Deepest  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 9/21/2021 Analysis Date: 2/7/2022  
Dilution/Concentration factor: 0.05 Concentration: 5:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Epithemia	1	1	0	1	5739	5739	0	5739	5739
Stephanodiscus	2	2	2	0	11479	11479	11479	0	11479
<b>Chlorophyta</b>									
Planktosphaeria	1	1	1	0	5739	5739	5739	0	5739
Staurostrum	27	27	27	0	154964	154964	154964	0	154964
<b>Cryptophyta</b>									
Cryptomonas	2	2	2	0	11479	11479	11479	0	11479
<b>Cyanophyta</b>									
Aphanizomenon	270	22191	10000	12191	1549640	127363201	57394079	69969122	127363201
Dolichospermum	1	15	15	0	5739	86091	86091	0	86091
<b>TOTAL:</b>	304	22,239	10,047	12,192	1,744,779	127,638,692	57,663,831	69,974,861	127,638,692

Concentrated 100ml to 5mL = 0.0500DCF 71 FOV 20X scan: Fragilaria 15NU,15cell,15live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV021

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample:	WYDEQ21LV021	WYDEQ #:	TCE-21-264-3PVD
Waterbody and Location:	Brooks Lake - NW Quad		
Collector/Agency:	Eric Hargett/WYDEQ	Analyst/Laboratory:	cd/Rhithron
Date Collected:	9/21/2021	Analysis Date:	2/7/2022
Dilution/Concentration factor:	0.1	Concentration:	10:100
Subsample Volume (L):	0.1	Original Volume (L):	0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Stephanodiscus	1	1	1	0	9261	9261	9261	0	9261
<b>Chlorophyta</b>									
Cosmarium	2	2	2	0	18523	18523	18523	0	18523
Sphaerocystis	1	8	8	0	9261	74091	74091	0	74091
Staurostrum	13	13	13	0	120397	120397	120397	0	120397
<b>Cryptophyta</b>									
Cryptomonas	1	1	1	0	9261	9261	9261	0	9261
<b>Cyanophyta</b>									
Aphanizomenon	283	13177	10000	3177	2620953	122036378	92613173	29423205	122036378
Dolichospermum	2	200	200	0	18523	1852263	1852263	0	1852263
<b>TOTAL:</b>	303	13,402	10,225	3,177	2,806,179	124,120,174	94,696,969	29,423,205	124,120,174

Concentrated 100ml to 10mL = 0.100DCF 88 FOV 20X scan: Planktosphaeria 1NU,1cell,1live

Project\_ID: WYDEQ21LV  
Sample\_ID: WYDEQ21LV022

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV022 WYDEQ #: TCE-21-293-1PVD  
Waterbody and Location: Brooks Lake - Outlet Quad  
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron  
Date Collected: 10/20/2021 Analysis Date: 2/7/2022  
Dilution/Concentration factor: 0.05 Concentration: 5:100  
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Stephanodiscus	24	24	23	1	97800	97800	93725	4075	97800
<b>Chlorophyta</b>									
Ankyra	5	5	5	0	20375	20375	20375	0	20375
Cosmarium	1	1	1	0	4075	4075	4075	0	4075
Sphaerocystis	1	6	6	0	4075	24450	24450	0	24450
Staurostrum	23	23	23	0	93725	93725	93725	0	93725
<b>Cryptophyta</b>									
Cryptomonas	6	6	6	0	24450	24450	24450	0	24450
<b>Cyanophyta</b>									
Aphanizomenon	19	297	297	0	77425	1210269	1210269	0	1210269
<b>TOTAL:</b>	79	362	361	1	321,925	1,475,144	1,471,069	4,075	1,475,144

Concentrated 100ml to 5mL = 0.0500DCF 100 FOV (max effort) 20X scan: no new taxa

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV023

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV023

WYDEQ #: TCE-21-293-2PVD

Waterbody and Location: Brooks Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 10/20/2021

Analysis Date: 2/7/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	18	18	11	7	21210	21210	12961	8248	21209
Hannaea	1	1	0	1	1178	1178	0	1178	1178
Stephanodiscus	60	60	57	3	70698	70698	67164	3535	70699
<b>Chlorophyta</b>									
Ankyra	29	29	29	0	34171	34171	34171	0	34171
Cosmarium	8	8	8	0	9426	9426	9426	0	9426
Dictyosphaerium	2	128	128	0	2357	150823	150823	0	150823
Eudorina	1	88	88	0	1178	103691	103691	0	103691
Oocystis	1	6	6	0	1178	7070	7070	0	7070
Staurastrum	64	64	64	0	75412	75412	75412	0	75412
<b>Cryptophyta</b>									
Cryptomonas	15	15	15	0	17675	17675	17675	0	17675
<b>Cyanophyta</b>									
Aphanizomenon	103	1835	1835	0	121366	2162194	2162194	0	2162194

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV023

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV023

WYDEQ #: TCE-21-293-2PVD

Waterbody and Location: Brooks Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 10/20/2021

Analysis Date: 2/7/2022

Dilution/Concentration factor: 0.012

Concentration: 1.2:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Dolichospermum	1	30	30	0	1178	35349	35349	0	35349
<b>TOTAL:</b>	303	2,282	2,271	11	357,027	2,688,897	2,675,936	12,961	2,688,897

Plagioselmis (10-15um) abundant Concentrated 100ml to 1.2mL = 0.0120DCF 83 FOV 20X scan: Planktosphaeria 1NU,1cell,1live

Project\_ID: WYDEQ21LV

Sample\_ID: WYDEQ21LV024

# WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ21LV024

WYDEQ #: TCE-21-293-3PVD

Waterbody and Location: Brooks Lake - NW Quad

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 10/20/2021

Analysis Date: 2/7/2022

Dilution/Concentration factor: 0.011

Concentration: 1.1:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
<b>Bacillariophyta</b>									
Fragilaria	14	14	14	0	12551	12551	12551	0	12551
Stephanodiscus	55	55	51	4	49307	49307	45721	3586	49307
<b>Chlorophyta</b>									
Ankyra	16	16	16	0	14344	14344	14344	0	14344
Cosmarium	15	15	15	0	13447	13447	13447	0	13447
Dictyosphaerium	1	16	16	0	896	14344	14344	0	14344
Staurostrum	65	65	65	0	58272	58272	58272	0	58272
<b>Cryptophyta</b>									
Cryptomonas	17	17	17	0	15240	15240	15240	0	15240
<b>Cyanophyta</b>									
Aphanizomenon	1	16	16	0	896	14344	14344	0	14344
<b>TOTAL:</b>	184	214	210	4	164,953	191,849	188,263	3,586	191,849

Plagioselmis (10-15um) abundant Concentrated 100ml to 1.1mL = 0.0110DCF 100 FOV (max effort) 20X scan: no new taxa