

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS001

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS001 WYDEQ #: MJW-23-171-1PLVD
Waterbody and Location: Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 6/20/2023 Analysis Date: 2/14/2024
Dilution/Concentration factor: 0.025 Concentration: 2.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Fragilaria	8	11	8	3	16300	22412	16300	6112	22412
Sellaphora	4	4	4	0	8150	8150	8150	0	8150
Stephanodiscus	14	14	14	0	28525	28525	28525	0	28525
Tabellaria	25	25	25	0	50937	50937	50937	0	50937
Undetermined Pennate	19	19	19	0	38712	38712	38712	0	38712
Cryptophyta									
Cryptomonas	154	154	154	0	313773	313773	313773	0	313773
Cyanophyta									
Aphanizomenon	4	150	150	0	8150	305623	305623	0	305623
Aphanocapsa	2	450	450	0	4075	916870	916870	0	916870
Protozoa									
Ciliatea	1	1	1	0	2037	2037	2037	0	2037
TOTAL:	231	828	825	3	470,659	1,687,039	1,680,927	6,112	1,687,039

100mL concentrated 2.5mL=0.025DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Cymbella 1,1,1 Staurastrum 1,0,1 Copepoda: nauplius 1,1,1

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS002

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS002 WYDEQ #: MJW-23-199-1PLVD
Waterbody and Location: Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/18/2023 Analysis Date: 2/14/2024
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
Bacillariophyta									
Asterionella	109	109	106	3	222086	222086	215974	6112	222086
Aulacoseira	2	2	0	2	4075	4075	0	4075	4075
Cymbella	1	1	1	0	2037	2037	2037	0	2037
Encyonema	1	1	1	0	2037	2037	2037	0	2037
Fragilaria	45	45	43	2	91687	91687	87612	4075	91687
Sellaphora	1	1	0	1	2037	2037	0	2037	2037
Stephanodiscus	23	23	21	2	46862	46862	42787	4075	46862
Tabellaria	28	28	27	1	57050	57050	55012	2037	57049
Undetermined Pennate	30	30	27	3	61125	61125	55012	6112	61124
Chlorophyta									
Dictyosphaerium	5	44	44	0	10187	89650	89650	0	89650
Cryptophyta									
Cryptomonas	66	66	66	0	134474	134474	134474	0	134474
Cyanophyta									

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS002

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS002 WYDEQ #: MJW-23-199-1PLVD
Waterbody and Location: Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/18/2023 Analysis Date: 2/14/2024
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	1	15	15	0	2037	30562	30562	0	30562
Aphanocapsa	10	750	750	0	20375	1528117	1528117	0	1528117
Protozoa									
Ciliata	2	2	2	0	4075	4075	4075	0	4075
TOTAL:	324	1,117	1,103	14	660,144	2,275,874	2,247,349	28,523	2,275,872

100mL concentrated 1mL=0.01DCF 40 FOV 20X 20FOV scan taxa: Dolichospermum 4,2600,2600 Staurastrum 2,2,2

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS003

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS003 WYDEQ #: MJW-23-200-1PLVD
Waterbody and Location: Upper Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/15/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Asterionella	5	5	5	0	8150	8150	8150	0	8150
Fragilaria	11	11	11	0	17930	17930	17930	0	17930
Undetermined Pennate	11	11	8	3	17930	17930	13040	4890	17930
Chlorophyta									
Oocystis	1	4	4	0	1630	6520	6520	0	6520
Schroederia	1	1	1	0	1630	1630	1630	0	1630
Cryptophyta									
Cryptomonas	19	19	19	0	30970	30970	30970	0	30970
Cyanophyta									
Aphanocapsa	22	1650	1650	0	35860	2689487	2689487	0	2689487
Dolichospermum	58	11310	10000	1310	94540	18435208	16299919	2135289	18435208
Protozoa									
Ciliata	9	9	9	0	14670	14670	14670	0	14670
Rotifera									

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS003

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS003 WYDEQ #: MJW-23-200-1PLVD
Waterbody and Location: Upper Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/15/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Polyarthra	2	2	2	0	3260	3260	3260	0	3260
TOTAL:	139	13,022	11,709	1,313	226,570	21,225,755	19,085,576	2,140,179	21,225,755

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS004

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS004 WYDEQ #: MJW-23-200-2PLVD
Waterbody and Location: Upper Jade Lake - Deepest DUP
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/15/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	11	11	11	0	13447	13447	13447	0	13447
Fragilaria	18	18	18	0	22005	22005	22005	0	22005
Undetermined Pennate	24	24	21	3	29340	29340	25672	3667	29339
Chlorophyta									
Schroederia	4	4	4	0	4890	4890	4890	0	4890
Cryptophyta									
Cryptomonas	31	31	31	0	37897	37897	37897	0	37897
Cyanophyta									
Aphanocapsa	75	7125	7125	0	91687	8710269	8710269	0	8710269
Dolichospermum	86	12900	10000	2900	105134	15770171	12224939	3545232	15770171
Protozoa									
Ciliata	10	10	10	0	12225	12225	12225	0	12225
Rotifera									
Polyarthra	1	1	1	0	1222	1222	1222	0	1222

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS004

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS004 WYDEQ #: MJW-23-200-2PLVD
Waterbody and Location: Upper Jade Lake - Deepest DUP
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/15/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
TOTAL:	260	20,124	17,221	2,903	317,847	24,601,466	21,052,566	3,548,899	24,601,465

100mL concentrated 1.5mL=0.015DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS

Sample_ID: WYDEQ23BLS005

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS005

WYDEQ #: MJW-23-200-3PLVD

Waterbody and Location: Lower Jade Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 7/19/2023

Analysis Date: 2/16/2024

Dilution/Concentration factor: 0.02

Concentration: 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
Bacillariophyta									
Asterionella	16	16	11	5	26080	26080	17930	8150	26080
Encyonema	2	2	1	1	3260	3260	1630	1630	3260
Fragilaria	31	31	25	6	50530	50530	40750	9780	50530
Navicula	1	1	0	1	1630	1630	0	1630	1630
Undetermined Pennate	5	5	2	3	8150	8150	3260	4890	8150
Chlorophyta									
Elakatothrix	1	8	8	0	1630	13040	13040	0	13040
Oocystis	6	18	18	0	9780	29340	29340	0	29340
Schroederia	1	1	1	0	1630	1630	1630	0	1630
Sphaerocystis	6	232	232	0	9780	378158	378158	0	378158
Cryptophyta									
Cryptomonas	34	34	34	0	55420	55420	55420	0	55420
Cyanophyta									
Dolichospermum	1	75	75	0	1630	122249	122249	0	122249

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS005

RAI Sample:	WYDEQ23BLS005	WYDEQ #:	MJW-23-200-3PLVD
Waterbody and Location:	Lower Jade Lake - Deepest		
Collector/Agency:	Eric Hargett/WYDEQ	Analyst/Laboratory:	cd/Rhithron
Date Collected:	7/19/2023	Analysis Date:	2/16/2024
Dilution/Concentration factor:	0.02	Concentration:	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
TOTAL:	104	423	407	16	169,520	689,487	663,407	26,080	689,487

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Ciliata 2,2,2

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS006

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS006 WYDEQ #: TCE-23-200-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/16/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	2	2	2	0	2445	2445	2445	0	2445
Cymbella	1	1	0	1	1222	1222	0	1222	1222
Fragilaria	2	2	1	1	2445	2445	1222	1222	2444
Navicula	1	1	1	0	1222	1222	1222	0	1222
Undetermined Pennate	5	5	3	2	6112	6112	3667	2445	6112
Chlorophyta									
Planktosphaeria	3	3	3	0	3667	3667	3667	0	3667
Schroederia	4	4	4	0	4890	4890	4890	0	4890
Staurostrum	1	1	1	0	1222	1222	1222	0	1222
Cryptophyta									
Cryptomonas	61	61	61	0	74572	74572	74572	0	74572
Protozoa									
Ciliatea	1	1	1	0	1222	1222	1222	0	1222

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS006

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS006 WYDEQ #: TCE-23-200-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/16/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
TOTAL:	81	81	77	4	99,019	99,019	94,129	4,889	99,018

100mL concentrated 1.5mL=0.015DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS007

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS007 WYDEQ #: TCE-23-200-2PLVD
Waterbody and Location: Rainbow Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 7/19/2023 Analysis Date: 2/16/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Fragilaria	1	1	1	0	1630	1630	1630	0	1630
Sellaphora	1	1	0	1	1630	1630	0	1630	1630
Chlorophyta									
Characium	10	10	10	0	16300	16300	16300	0	16300
Oocystis	1	8	8	0	1630	13040	13040	0	13040
Pediastrum	1	12	0	12	1630	19560	0	19560	19560
Sphaerocystis	3	136	136	0	4890	221679	221679	0	221679
Staurastrum	18	18	15	3	29340	29340	24450	4890	29340
Cryptophyta									
Cryptomonas	8	8	8	0	13040	13040	13040	0	13040
Cyanophyta									
Dolichospermum	6	2550	2550	0	9780	4156479	4156479	0	4156479
Microcystis	7	23625	0	23625	11410	38508557	0	38508557	38508557
Pseudanabaena	14	98	98	0	22820	159739	159739	0	159739

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS007

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample:	WYDEQ23BLS007	WYDEQ #:	TCE-23-200-2PLVD
Waterbody and Location:	Rainbow Lake - Deepest		
Collector/Agency:	Eric Hargett/WYDEQ	Analyst/Laboratory:	cd/Rhithron
Date Collected:	7/19/2023	Analysis Date:	2/16/2024
Dilution/Concentration factor:	0.02	Concentration:	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
TOTAL:	70	26,467	2,826	23,641	114,100	43,140,994	4,606,357	38,534,637	43,140,994

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS008

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS008 WYDEQ #: MJW-23-234-1PLVD
Waterbody and Location: Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/22/2023 Analysis Date: 2/16/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Fragilaria	169	177	169	8	1475725	1545582	1475725	69857	1545582
Stephanodiscus	2	2	2	0	17464	17464	17464	0	17464
Chlorophyta									
Sphaerocystis	1	8	8	0	8732	69857	69857	0	69857
Cyanophyta									
Aphanizomenon	160	4329	4329	0	1397136	37801257	37801257	0	37801257
Aphanothece	5	5500	5500	0	43660	48026546	48026546	0	48026546
TOTAL:	337	10,016	10,008	8	2,942,717	87,460,706	87,390,849	69,857	87,460,706

100mL concentrated 1.5mL=0.015DCF 14 FOV 20X 20FOV scan taxa: Oocystis 1,8,8 Staurastrum 2,2,2 Cryptomonas 9,9,9 Dolichospermum 1,12,12
Elakothrix 1,4,4

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS009

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS009 WYDEQ #: MJW-23-234-2PLVD
Waterbody and Location: Brooks Lake - Deepest DUP
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/22/2023 Analysis Date: 2/17/2024
Dilution/Concentration factor: 0.025 Concentration: 2.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	5	5	4	1	48512	48512	38809	9702	48511
Fragilaria	176	176	170	6	1707611	1707611	1649397	58214	1707611
Stephanodiscus	5	5	5	0	48512	48512	48512	0	48512
Ulnaria	1	1	1	0	9702	9702	9702	0	9702
Cryptophyta									
Cryptomonas	3	3	3	0	29107	29107	29107	0	29107
Cyanophyta									
Aphanizomenon	169	4966	4966	0	1639694	48181783	48181783	0	48181783
Aphanothece	2	800	800	0	19405	7761866	7761866	0	7761866
TOTAL:	361	5,956	5,949	7	3,502,543	57,787,093	57,719,176	67,916	57,787,092

100mL concentrated 2.5mL=0.025DCF 21 FOV 20X 20FOV scan taxa: Staurastrum 1,1,1 Dolichospermum 1,75,75

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS010

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS010 WYDEQ #: VES-23-235-1PLVD
Waterbody and Location: Upper Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/23/2023 Analysis Date: 2/17/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	49	49	47	2	59902	59902	57457	2445	59902
Fragilaria	84	84	84	0	102689	102689	102689	0	102689
Gomphonema	3	3	3	0	3667	3667	3667	0	3667
Chlorophyta									
Oocystis	9	49	49	0	11002	59902	59902	0	59902
Sphaerocystis	6	166	166	0	7335	202934	202934	0	202934
Cryptophyta									
Cryptomonas	8	8	8	0	9780	9780	9780	0	9780
Cyanophyta									
Aphanizomenon	52	1320	1320	0	63570	1613692	1613692	0	1613692
Dolichospermum	1	20	20	0	1222	24450	24450	0	24450
Rotifera									
Keratella	1	1	1	0	1222	1222	1222	0	1222

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS010

RAI Sample:	WYDEQ23BLS010	WYDEQ #:	VES-23-235-1PLVD
Waterbody and Location:	Upper Jade Lake - Deepest		
Collector/Agency:	Eric Hargett/WYDEQ	Analyst/Laboratory:	cd/Rhithron
Date Collected:	8/23/2023	Analysis Date:	2/17/2024
Dilution/Concentration factor:	0.015	Concentration:	1.5:100
Subsample Volume (L):	0.1	Original Volume (L):	0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
TOTAL:	213	1,700	1,698	2	260,389	2,078,238	2,075,793	2,445	2,078,238

100mL concentrated 1.5mL=0.015DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS011

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS011 WYDEQ #: VES-23-235-2PLVD
Waterbody and Location: Lower Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/23/2023 Analysis Date: 2/18/2024
Dilution/Concentration factor: 0.0225 Concentration: 2.25:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	7	7	7	0	12836	12836	12836	0	12836
Aulacoseira	68	68	64	4	124694	124694	117359	7335	124694
Epithemia	1	1	0	1	1834	1834	0	1834	1834
Fragilaria	23	23	17	6	42176	42176	31174	11002	42176
Nitzschia	1	1	1	0	1834	1834	1834	0	1834
Cyanophyta									
Aphanizomenon	4	75	75	0	7335	137531	137531	0	137531
Pseudanabaena	1	25	25	0	1834	45844	45844	0	45844
TOTAL:	105	200	189	11	192,543	366,749	346,578	20,171	366,749

100mL concentrated 2.25mL=0.0225DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Staurastrum 2,2,2

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS012

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS012 WYDEQ #: TCE-23-235-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/23/2023 Analysis Date: 2/19/2024
Dilution/Concentration factor: 0.0175 Concentration: 1.75:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Cocconeis	1	1	1	0	1426	1426	1426	0	1426
Fragilaria	4	4	4	0	5705	5705	5705	0	5705
Hannaea	1	1	1	0	1426	1426	1426	0	1426
Undetermined Pennate	1	1	1	0	1426	1426	1426	0	1426
Chlorophyta									
Characium	2	2	2	0	2852	2852	2852	0	2852
Schroederia	1	1	1	0	1426	1426	1426	0	1426
Staurostrum	19	19	16	3	27099	27099	22820	4279	27099
Cryptophyta									
Cryptomonas	6	6	6	0	8557	8557	8557	0	8557
Cyanophyta									
Aphanizomenon	27	675	675	0	38509	962714	962714	0	962714
Dolichospermum	15	325	325	0	21394	463529	463529	0	463529
Gloeotrichia	3	100	100	0	4279	142624	142624	0	142624

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS012

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS012 WYDEQ #: TCE-23-235-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/23/2023 Analysis Date: 2/19/2024
Dilution/Concentration factor: 0.0175 Concentration: 1.75:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Pseudanabaena	5	105	105	0	7131	149756	149756	0	149756
TOTAL:	85	1,240	1,237	3	121,230	1,768,540	1,764,261	4,279	1,768,540

100mL concentrated 1.75mL=0.0175DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Aulacoseira 2,2,1

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS013

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS013 WYDEQ #: TCE-23-235-2PLVD
Waterbody and Location: Rainbow Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/23/2023 Analysis Date: 2/19/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Nitzschia	2	2	2	0	5821	5821	5821	0	5821
Chlorophyta									
Pediastrum	6	6	0	6	17464	17464	0	17464	17464
Staurostrum	119	119	114	5	346373	346373	331820	14553	346373
Cyanophyta									
Dolichospermum	105	3314	3314	0	305623	9646059	9646059	0	9646059
Pseudanabaena	86	1118	1118	0	250320	3254162	3254162	0	3254162
TOTAL:	318	4,559	4,548	11	925,601	13,269,879	13,237,862	32,017	13,269,879

100mL concentrated 1.5mL=0.015DCF 42 FOV 20X 20FOV scan taxa: Gomphoneis 0,1,1 Aphanizomenon 2,80,80, 2 heterocysts Sphaerocystis 1,7,7

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS014

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS014 WYDEQ #: TCE-23-235-3PLVD
Waterbody and Location: Rainbow Lake - Deepest DUP
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 8/23/2023 Analysis Date: 2/19/2024
Dilution/Concentration factor: 0.025 Concentration: 2.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Undetermined Pennate	1	1	1	0	3705	3705	3705	0	3705
Chlorophyta									
Staurostrum	118	118	112	6	437134	437134	414907	22227	437134
Cyanophyta									
Dolichospermum	90	2728	2728	0	333407	10105949	10105949	0	10105949
Pseudanabaena	97	970	970	0	359339	3593391	3593391	0	3593391
TOTAL:	306	3,817	3,811	6	1,133,585	14,140,179	14,117,952	22,227	14,140,179

100mL concentrated 2.5mL=0.025DCF 55 FOV 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS

Sample_ID: WYDEQ23BLS015

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS015

WYDEQ #: VES-23-262-1PLVD

Waterbody and Location: Brooks Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 9/19/2023

Analysis Date: 2/20/2024

Dilution/Concentration factor: 0.0175

Concentration: 1.75:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Encyonema	1	1	0	1	3241	3241	0	3241	3241
Fragilaria	30	30	30	0	97244	97244	97244	0	97244
Gyrosigma	1	1	0	1	3241	3241	0	3241	3241
Stephanodiscus	2	2	2	0	6483	6483	6483	0	6483
Chlorophyta									
Characium	2	2	2	0	6483	6483	6483	0	6483
Staurostrum	1	1	1	0	3241	3241	3241	0	3241
Cryptophyta									
Cryptomonas	13	13	13	0	42139	42139	42139	0	42139
Cyanophyta									
Aphanizomenon	256	9768	9768	0	829814	31662592	31662592	0	31662592
Pseudanabaena	1	15	15	0	3241	48622	48622	0	48622
Rotifera									
Keratella	1	1	1	0	3241	3241	3241	0	3241

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS015

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample:	WYDEQ23BLS015	WYDEQ #:	VES-23-262-1PLVD
Waterbody and Location:	Brooks Lake - Deepest		
Collector/Agency:	Eric Hargett/WYDEQ	Analyst/Laboratory:	cd/Rhithron
Date Collected:	9/19/2023	Analysis Date:	2/20/2024
Dilution/Concentration factor:	0.0175	Concentration:	1.75:100
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:	308	9,834	9,832	2	998,368	31,876,527	31,870,045	6,482	31,876,527

100mL concentrated 1.75mL=0.0175DCF 44 FOV 20X 20FOV scan taxa: Oocystis 1,4,4 Amphora 1,1,1

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS016

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS016 WYDEQ #: TCE-23-263-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 9/20/2023 Analysis Date: 2/21/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Fragilaria	41	41	16	25	66830	66830	26080	40750	66830
Nitzschia	12	12	11	1	19560	19560	17930	1630	19560
Chlorophyta									
Oocystis	1	8	8	0	1630	13040	13040	0	13040
Staurastrum	4	4	3	1	6520	6520	4890	1630	6520
Cryptophyta									
Cryptomonas	8	8	8	0	13040	13040	13040	0	13040
Cyanophyta									
Aphanizomenon	74	2146	2146	0	120619	3497963	3497963	0	3497963
Dolichospermum	69	2271	2271	0	112469	3701711	3701711	0	3701711
Pseudanabaena	2	35	35	0	3260	57050	57050	0	57050
TOTAL:	211	4,525	4,498	27	343,928	7,375,714	7,331,704	44,010	7,375,714

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Planktosphaeria 2,2,2

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS017

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS017 WYDEQ #: TCE-23-263-2PLVD
Waterbody and Location: Rainbow Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 9/20/2023 Analysis Date: 2/21/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Chlorophyta									
Sphaerocystis	4	168	168	0	11051	464133	464133	0	464133
Staurastrum	261	261	250	11	721064	721064	690675	30390	721065
Cryptophyta									
Cryptomonas	1	1	1	0	2763	2763	2763	0	2763
Cyanophyta									
Aphanizomenon	2	45	45	0	5525	124321	124321	0	124321
Dolichospermum	43	502	502	0	118796	1386874	1386874	0	1386874
Pseudanabaena	5	60	60	0	13813	165762	165762	0	165762
TOTAL:	316	1,037	1,026	11	873,012	2,864,917	2,834,528	30,390	2,864,918

100mL concentrated 2mL=0.02DCF 59 FOV 20X 20FOV scan taxa: none

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS018

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS018 WYDEQ #: MJW-23-263-1PLVD
Waterbody and Location: Upper Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 9/20/2023 Analysis Date: 2/21/2024
Dilution/Concentration factor: 0.0175 Concentration: 1.75:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	288	288	287	1	1785904	1785904	1779703	6201	1785904
Aulacoseira	4	4	3	1	24804	24804	18603	6201	24804
Stephanodiscus	1	1	1	0	6201	6201	6201	0	6201
Undetermined Pennate	5	5	5	0	31005	31005	31005	0	31005
Chlorophyta									
Pediastrum	1	12	12	0	6201	74413	74413	0	74413
Cryptophyta									
Cryptomonas	7	7	7	0	43407	43407	43407	0	43407
Cyanophyta									
Dolichospermum	1	15	15	0	6201	93016	93016	0	93016
TOTAL:	307	332	330	2	1,903,723	2,058,750	2,046,348	12,402	2,058,750

100mL concentrated 1.75mL=0.0175DCF 23 FOV 20X 20FOV scan taxa: Aphanizomenon 3,125,125 Sphaerocystis 2,16,16

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS019

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS019 WYDEQ #: MJW-23-263-2PLVD
Waterbody and Location: Lower Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 9/20/2023 Analysis Date: 2/22/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Asterionella	3	3	3	0	4890	4890	4890	0	4890
Aulacoseira	66	66	65	1	107579	107579	105949	1630	107579
Fragilaria	2	2	2	0	3260	3260	3260	0	3260
Undetermined Pennate	2	2	0	2	3260	3260	0	3260	3260
Chlorophyta									
Sphaerocystis	2	11	11	0	3260	17930	17930	0	17930
Cyanophyta									
Aphanizomenon	3	47	47	0	4890	76610	76610	0	76610
Pyrrhophyta									
Ceratium	1	1	1	0	1630	1630	1630	0	1630
TOTAL:	79	132	129	3	128,769	215,159	210,269	4,890	215,159

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Cryptomonas 1,1,1 Dolichospermum 1,11,11

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS020

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS020 WYDEQ #: MJW-23-290-1PLVD
Waterbody and Location: Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/17/2023 Analysis Date: 2/23/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Aulacoseira	4	4	4	0	9879	9879	9879	0	9879
Fragilaria	51	51	45	6	125954	125954	111136	14818	125954
Navicula	1	1	0	1	2470	2470	0	2470	2470
Cryptophyta									
Cryptomonas	246	246	246	0	607542	607542	607542	0	607542
Cyanophyta									
Aphanizomenon	7	215	215	0	17288	530982	530982	0	530982
TOTAL:	309	517	510	7	763,133	1,276,827	1,259,539	17,288	1,276,827

100mL concentrated 2mL=0.02DCF 66 FOV 20X 20FOV scan taxa: Stephanodiscus 2,2,2 Staurostrum 1,1,1

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS021

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS021 WYDEQ #: TCE-23-291-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/18/2023 Analysis Date: 2/26/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Amphora	1	1	1	0	1630	1630	1630	0	1630
Encyonema	1	1	1	0	1630	1630	1630	0	1630
Epithemia	1	1	0	1	1630	1630	0	1630	1630
Fragilaria	48	48	42	6	78240	78240	68460	9780	78240
Hannaea	1	1	1	0	1630	1630	1630	0	1630
Navicula	10	10	7	3	16300	16300	11410	4890	16300
Nitzschia	3	3	1	2	4890	4890	1630	3260	4890
Undetermined Pennate	6	6	1	5	9780	9780	1630	8150	9780
Chlorophyta									
Staurostrum	3	3	3	0	4890	4890	4890	0	4890
Cryptophyta									
Cryptomonas	11	11	11	0	17930	17930	17930	0	17930
Cyanophyta									
Cylindrospermum	3	85	85	0	4890	138549	138549	0	138549

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS021

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS021 WYDEQ #: TCE-23-291-1PLVD
Waterbody and Location: Upper Brooks Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/18/2023 Analysis Date: 2/26/2024
Dilution/Concentration factor: 0.02 Concentration: 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	14	224	224	0	22820	365118	365118	0	365118
TOTAL:	102	394	377	17	166,260	642,217	614,507	27,710	642,217

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Copepoda 1,1,1 Epithemia 1,0,1

Project_ID: WYDEQ23BLS

Sample_ID: WYDEQ23BLS022

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS022

WYDEQ #: TCE-23-291-2PLVD

Waterbody and Location: Rainbow Lake - Deepest

Collector/Agency: Eric Hargett/WYDEQ

Analyst/Laboratory: cd/Rhithron

Date Collected: 10/18/2023

Analysis Date: 2/27/2024

Dilution/Concentration factor: 0.015

Concentration: 1.5:100

Subsample Volume (L): 0.1

Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Amphora	2	2	0	2	3135	3135	0	3135	3135
Encyonema	2	2	1	1	3135	3135	1567	1567	3134
Epithemia	1	1	0	1	1567	1567	0	1567	1567
Fragilaria	1	1	0	1	1567	1567	0	1567	1567
Gomphonema	1	1	0	1	1567	1567	0	1567	1567
Navicula	3	3	1	2	4702	4702	1567	3135	4702
Sellaphora	4	4	1	3	6269	6269	1567	4702	6269
Undetermined Pennate	4	4	2	2	6269	6269	3135	3135	6270
Chlorophyta									
Elakatothrix	1	2	2	0	1567	3135	3135	0	3135
Oocystis	4	15	15	0	6269	23509	23509	0	23509
Pediastrum	2	12	0	12	3135	18808	0	18808	18808
Scenedesmus	1	4	4	0	1567	6269	6269	0	6269
Sphaerocystis	7	56	56	0	10971	87769	87769	0	87769

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS022

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS022 WYDEQ #: TCE-23-291-2PLVD
Waterbody and Location: Rainbow Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/18/2023 Analysis Date: 2/27/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Staurastrum	207	207	202	5	324431	324431	316595	7836	324431
Cryptophyta									
Cryptomonas	20	20	20	0	31346	31346	31346	0	31346
Cyanophyta									
Dolichospermum	34	918	918	0	53288	1438781	1438781	0	1438781
Pseudanabaena	26	390	390	0	40750	611247	611247	0	611247
Pyrrophyta									
Undetermined Dinoflagellate	1	1	1	0	1567	1567	1567	0	1567
TOTAL:	321	1,643	1,613	30	503,102	2,575,073	2,528,054	47,019	2,575,073

100mL concentrated 1.5mL=0.015DCF 78 FOV 20X 20FOV scan taxa: Cymbella 1,1,0 Rotifera 1,1,1

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS023

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS023 WYDEQ #: MJW-23-291-1PLVD
Waterbody and Location: Upper Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/18/2023 Analysis Date: 2/27/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Bacillariophyta									
Asterionella	8	8	2	6	23286	23286	5821	17464	23285
Aulacoseira	3	3	3	0	8732	8732	8732	0	8732
Cymbella	1	1	0	1	2911	2911	0	2911	2911
Fragilaria	214	214	214	0	622890	622890	622890	0	622890
Gyrosigma	1	1	0	1	2911	2911	0	2911	2911
Stephanodiscus	1	1	1	0	2911	2911	2911	0	2911
Chlorophyta									
Monoraphidium	1	1	1	0	2911	2911	2911	0	2911
Oocystis	2	8	8	0	5821	23286	23286	0	23286
Staurostrum	4	4	4	0	11643	11643	11643	0	11643
Chrysophyta									
Synura	52	52	52	0	151356	151356	151356	0	151356
Cryptophyta									
Cryptomonas	20	20	20	0	58214	58214	58214	0	58214

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS023

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS023 WYDEQ #: MJW-23-291-1PLVD
Waterbody and Location: Upper Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/18/2023 Analysis Date: 2/27/2024
Dilution/Concentration factor: 0.015 Concentration: 1.5:100
Subsample Volume (L): 0.1 Original Volume (L): 0.2525

	NCUCounted	CellsCounted	LiveCells	DeadCells	NCUCounted_L	CellsCounted_L	LiveCells_L	DeadCells_L	TotalCells_L
Cyanophyta									
Cylindrospermum	1	15	15	0	2911	43660	43660	0	43660
TOTAL:	308	328	320	8	896,497	954,711	931,424	23,286	954,710

100mL concentrated 1.5mL=0.015DCF 42 FOV 20X 20FOV scan taxa: Undetermined Pennate 2,2,1 Encyonema 1,1,0 Keratella 1,1,1

Project_ID: WYDEQ23BLS
Sample_ID: WYDEQ23BLS024

WYOMING DEQ PHYTOPLANKTON BENCHSHEET

RAI Sample: WYDEQ23BLS024 WYDEQ #: MJW-23-291-2PLVD
Waterbody and Location: Lower Jade Lake - Deepest
Collector/Agency: Eric Hargett/WYDEQ Analyst/Laboratory: cd/Rhithron
Date Collected: 10/18/2023 Analysis Date: 2/27/2024
Dilution/Concentration factor: 0.02 Concentration: 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
Bacillariophyta									
Asterionella	5	5	5	0	8150	8150	8150	0	8150
Aulacoseira	32	32	28	4	52160	52160	45640	6520	52160
Fragilaria	33	33	12	21	53790	53790	19560	34230	53790
Navicula	1	1	1	0	1630	1630	1630	0	1630
Chlorophyta									
Schroederia	1	1	1	0	1630	1630	1630	0	1630
Sphaerocystis	1	8	8	0	1630	13040	13040	0	13040
Cryptophyta									
Cryptomonas	8	8	8	0	13040	13040	13040	0	13040
Cyanophyta									
Dolichospermum	1	8	8	0	1630	13040	13040	0	13040
TOTAL:	82	96	71	25	133,660	156,480	115,730	40,750	156,480

100mL concentrated 2mL=0.02DCF 100 FOV (2 PM preps, maximum effort) 20X 20FOV scan taxa: Gomphoneis 1,1,1