ECOTOXICOLOGY **FATHEAD MINNOW SURVIVAL AND GROWTH TEST**

Client Name: Golder Associates Ltd.
Sample ID: Various
Job / Sample #: C039804
Weighing Dates: 2020 Jun 17, 2020 Jun 22
Drying Time (h): >24
Balance ID: bby2-0260
Drying Temp (°C): 60

Boat #	Conc. & Replicate	Initial # Of Fish	Boat Wt. (g)	Boat & Fish Wt. (g)	Wt. of Fish (mg)	Biomass/Replicate[1] (mg)	Mean Biomass/Conc[1] (mg)	SD
333	0-A	10	0.80753	0.81357	6.04	0.604	0.554	0.04
334	B	10	0.79958	0.80483	5.25	0.525		
335	C	10	0.79940	0.80473	5.33	0.533		
336	Site Ctrl-A	10	0.80069	0.80580	5.11	0.511	0.512	0.01
337	B	10	0.80624	0.81130	5.06	0.506		
338	C	10	0.79919	0.80438	5.19	0.519		
339	Soft Water Ctrl-A	10	0.80924	0.81460	5.36	0.536	0.566	0.03
340	B	10	0.80080	0.80640	5.60	0.560		
341	C	10	0.79555	0.80158	6.03	0.603		
342	MEL-02-05 100%-A	10	0.81810	0.82309	4.99	0.499	0.540	0.04
343	B	10	0.81632	0.82198	5.66	0.566		
344	C	10	0.80144	0.80698	5.54	0.554		
345	MEL-03-02 100%-A	10	0.79452	0.79923	4.71	0.471	0.508	0.04
346	B	10	0.79925	0.80436	5.11	0.511		
347	C	10	0.79903	0.80446	5.43	0.543		
348	MEL-04-05 100%-A	10	0.79742	0.80261	5.19	0.519	0.553	0.04
349	B	10	0.78833	0.79427	5.94	0.594		
350	C	10	0.80137	0.80684	5.47	0.547		
351	MEL-05-04 100%-A	10	0.79964	0.80504	5.40	0.540	0.525	0.02
352	B	10	0.80213	0.80720	5.07	0.507		
353	C	10	0.78768	0.79297	5.29	0.529		
354	QA/QC		0.79520	0.79534	0.14			
355	QA/QC		0.79277	0.79295	0.18			
333	0-A	10	0.80757	0.81355	5.98			
Analyst			NS	DML				

[1] Biomass is calculated as the weight of fish per replicate divided by the number of fish initially seeded into that replicate (i.e. **10** fish per replicate).

Average Dry Weight of Control Fish (Average dry weight of control fish must be ≥ 250 µg for test to be valid)

Boat #	Conc. & Replicate	# Surviving Fish	Wt. of Fish (mg)	Mean Wt./ Fish (µg)	Mean Dry Wt. (µg)
333	0-A	10	6.04	604	**554**
334	B	10	5.25	525	
335	C	10	5.33	533	

ECOTOXICOLOGY **FATHEAD MINNOW SURVIVAL AND GROWTH TEST**

Client Name: Golder Associates Ltd.
Sample ID: MEL-13-01 Job / Sample #: C039804 XX3664
Weighing Dates: 2020 June 17, 2020 Jun 20 Drying Time (h): >24
Balance ID: bby-0260 Drying Temp (°C): 60

Boat #	Conc. & Replicate	Initial # Of Fish	Boat Wt. (g)	Boat & Fish Wt. (g)	Wt. of Fish (mg)	Biomass/Replicate[1] (mg)	Mean Biomass/Conc[1] (mg)	SD
275	0-A	10	0.80154	0.80641	4.87	0.487	0.497	0.03
276	B	10	0.80728	0.81255	5.27	0.527		
277	C	10	0.81578	0.82055	4.77	0.477		
278	Site Ctrl-A	10	0.80451	0.81020	5.69	0.569	0.560	0.02
279	B	10	0.79960	0.80499	5.39	0.539		
280	C	10	0.80923	0.81496	5.73	0.573		
281	1.56%-A	10	0.80425	0.80954	5.29	0.529	0.530	0.01
282	B	10	0.80329	0.80853	5.24	0.524		
283	C	10	0.82841	0.83379	5.38	0.538		
284	3.13%-A	10	0.82530	0.82985	4.55	0.455	0.516	0.06
285	B	10	0.80330	0.80911	5.81	0.581		
286	C	10	0.78898	0.79409	5.11	0.511		
287	6.25%-A	10	0.79284	0.79841	5.57	0.557	0.565	0.04
288	B	10	0.78756	0.79285	5.29	0.529		
289	C	10	0.79521	0.80129	6.08	0.608		
290	12.5%-A	10	0.78925	0.79380	4.55	0.455	0.510	0.05
291	B	10	0.79870	0.80428	5.58	0.558		
292	C	10	0.79851	0.80367	5.16	0.516		
293	25%-A	10	0.81684	0.82266	5.82	0.582	0.548	0.07
294	B	10	0.81718	0.82190	4.72	0.472		
295	C	10	0.79996	0.80585	5.89	0.589		
296	50%-A	10	0.81018	0.81504	4.86	0.486	0.526	0.04
297	B	10	0.81173	0.81704	5.31	0.531		
298	C	10	0.78729	0.79289	5.60	0.560		
299	100%-A	10	0.78313	0.78909	5.96	0.596	0.579	0.03
300	B	10	0.78252	0.78851	5.99	0.599		
301	C	10	0.79014	0.79555	5.41	0.541		
302	QA/QC		0.78708	0.78712	0.04			
303	QA/QC		0.80186	0.80178	-0.08			
275	0-A	10	0.80145	0.80645	5.00			
Analyst			NS	DML				

[1] Biomass is calculated as the weight of fish per replicate divided by the number of fish initially seeded into that replicate (i.e. **10** fish per replicate).

Average Dry Weight of Control Fish (Average dry weight of control fish must be ≥ 250 µg for test to be valid)

Boat #	Conc. & Replicate	# Surviving Fish	Wt. of Fish (mg)	Mean Wt./ Fish (µg)	Mean Dry Wt. (µg)
275	0-A	10	4.87	487	**497**
276	B	10	5.27	527	
277	C	10	4.77	477	

ECOTOXICOLOGY **FATHEAD MINNOW SURVIVAL AND GROWTH TEST**

Client Name: Golder Associates Ltd.
Sample ID: MEL-13-07 Job / Sample #: C039804 XX3664
Weighing Dates: 2020 June 17, 2020 Jun 20 Drying Time (h): >24
Balance ID: bby2-0260 Drying Temp (°C): 60

Boat #	Conc. & Replicate	Initial # Of Fish	Boat Wt. (g)	Boat & Fish Wt. (g)	Wt. of Fish (mg)	Biomass/Replicate[1] (mg)	Mean Biomass/Conc[1] (mg)	SD
304	0-A	10	0.80144	0.80714	5.70	0.570	0.573	0.06
305	B	10	0.80493	0.81008	5.15	0.515		
306	C	10	0.80810	0.81443	6.33	0.633		
307	Site Ctrl-A	10	0.79177	0.79739	5.62	0.562	0.506	0.06
308	B	10	0.80906	0.81352	4.46	0.446		
309	C	10	0.81217	0.81727	5.10	0.510		
310	1.56%-A	10	0.81361	0.81948	5.87	0.587	0.517	0.07
311	B	10	0.80485	0.80999	5.14	0.514		
312	C	10	0.79729	0.80178	4.49	0.449		
313	3.13%-A	10	0.80236	0.80742	5.06	0.506	0.558	0.05
314	B	10	0.78473	0.79042	5.69	0.569		
315	C	10	0.82537	0.83136	5.99	0.599		
316	6.25%-A	10	0.81461	0.81904	4.43	0.443	0.546	0.09
317	B	10	0.79856	0.80429	5.73	0.573		
318	C	10	0.79863	0.80484	6.21	0.621		
319	12.5%-A	10	0.80023	0.80636	6.13	0.613	0.604	0.07
320	B	10	0.80637	0.81310	6.73	0.673		
321	C	10	0.79973	0.80500	5.27	0.527		
322	25%-A	10	0.79829	0.80361	5.32	0.532	0.554	0.02
323	B	10	0.78474	0.79050	5.76	0.576		
324	C	10	0.78370	0.78923	5.53	0.553		
325	50%-A	10	0.79626	0.80185	5.59	0.559	0.593	0.03
326	B	10	0.80695	0.81286	5.91	0.591		
327	C	10	0.79326	0.79954	6.28	0.628		
328	100%-A	10	0.80523	0.80956	4.33	0.433	0.493	0.07
329	B	10	0.80372	0.80853	4.81	0.481		
330	C	10	0.80518	0.81083	5.65	0.565		
331	QA/QC		0.79185	0.79201	0.16			
332	QA/QC		0.79620	0.79639	0.19			
304	0-A	10	0.80152	0.80738	5.86			
Analyst			NS	DML				

[1] Biomass is calculated as the weight of fish per replicate divided by the number of fish initially seeded into that replicate (i.e. **10** fish per replicate).

Average Dry Weight of Control Fish (Average dry weight of control fish must be ≥ 250 µg for test to be valid)

Boat #	Conc. & Replicate	# Surviving Fish	Wt. of Fish (mg)	Mean Wt./ Fish (µg)	Mean Dry Wt. (µg)
304	0-A	10	5.70	570	**573**
305	B	10	5.15	515	
306	C	10	6.33	633	