

Master Data Sheet
2015 Spring
Site D

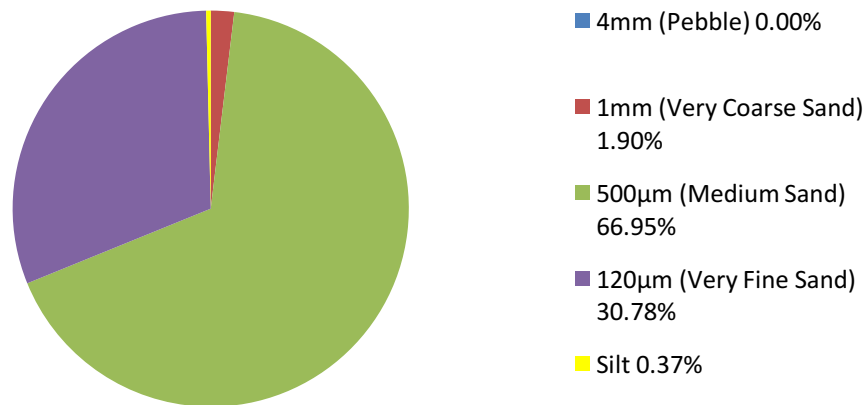
	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 1 (2-3m)	0.0	0.00	17.0	1.90	599.0	66.95	275.4	30.78	3.3	0.369	894.7
Transect 1 (5-6m)	0.5	0.067	58.4	7.84	480.8	64.55	203.3	27.3	1.8	0.242	744.8
Transect 3 (2-3m)	3.4	0.742	89.1	19.433	196.5	42.857	160.5	35.005	9.0	1.963	458.5
Transect 3 (5-6 m)	0	0	19.5	4.45	237.0	54.1	179.4	41.0	2.1	0.479	438.0
Transect 5 (2-3m)	15.0	1.99	137.0	18.177	362.2	48.056	238.5	31.644	1.0	0.133	753.7
Transect 5 (5-6m)	6.9	0.764	171.3	19.0	570.3	63.2	153.7	17.0	0.5	0.055	902.7

Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
1	2-3	Pool	Low	7.0	Trace	Low
1	5-6	Pool	Very Low	6.5	Trace	Low
3	2-3	Pool	Very Low	7.0	Trace	Low
3	5-6	Pool	Very Low	7.0	Trace	Trace
5	2-3	Run	Very Low	7.0	Trace	Low
5	5-6	Run	Medium Low	6.0	Trace	Low

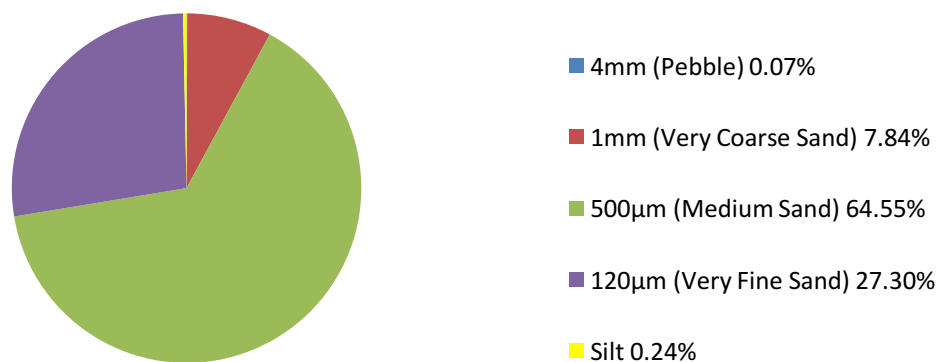
Site D-1 Spring 2015

	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 1 (2-3m)	0	0	17.0	1.9	599.0	66.95	275.4	30.78	3.3	0.369	894.7
Transect 1 (5-6m)	0.5	0.067	58.4	7.84	480.8	64.55	203.3	27.3	1.8	0.242	744.8

Composition of Sediments at Site D, Transect 1, 2-3m (Spring 2015)



Composition of Sediments at Site D, Transect 1, 5-6m (Spring 2015)



Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
1	2-3	Pool	Low	7.0	Trace	Low
1	5-6	Pool	Very Low	7.0	Trace	Low

Sediment Composition:

The lack of pebble sediments near the creek bank is somewhat concerning. However, silt levels are still low, which is a good sign.

Chemical Analysis:

Trace and low levels of nitrogen and phosphorus respectively is a good sign because it indicates it's less likely a cultural eutrophication to occur. It would be more beneficial for life in the creek if more nitrogen was present, because it is essential for plant growth. Lastly, pH 5-6 m from the bank had a pH of 6.5. This is slightly more acidic than is healthy.

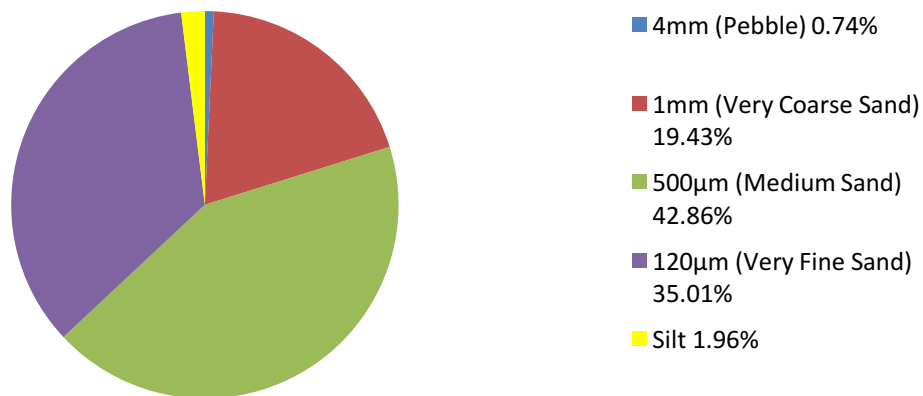
Corbicula:

One corbicula was found 5-6m from the bank in Transect 1. Corbicula is an invasive species.

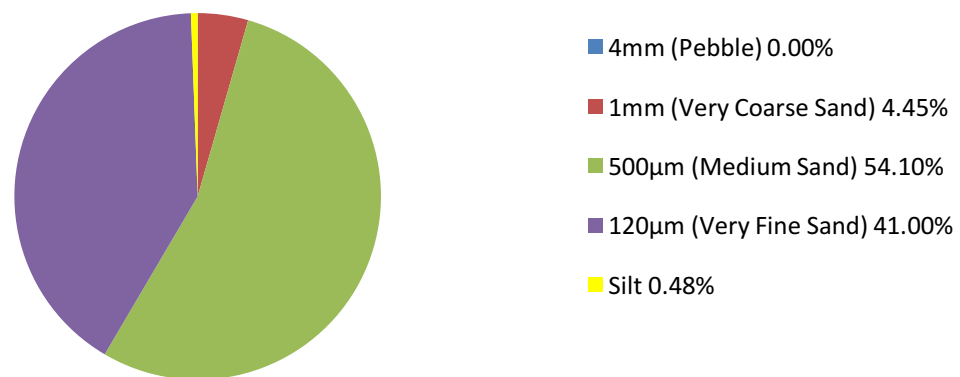
Site D-3 Spring 2015

	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 3 2-3m	3.4	0.742	89.1	19.433	196.5	42.857	160.5	35.005	9.0	1.963	458.5
Transect 3 5-6 m	0	0	19.5	4.45	237.0	54.1	179.4	41.0	2.1	0.479	438.0

Composition of Sediments at Site D, Transect 3, 2-3m (Spring 2015)



Composition of Sediments at Site D, Transect 3, 5-6m (Spring 2015)



Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
3	2-3	Pool	Very Low	7.0	Trace	Low
3	5-6	Pool	Very Low	7.0	Trace	Trace

Sediment Composition:

There is a very low amount of pebbles in the creek which is problematic. Silt levels 2-3 m from the bank were unusually high. The silt interferes with aquatic animals' ability to breathe. These high levels are alarming.

Chemical Analysis:

Trace amounts of nitrogen and very low levels of potassium are good signs because they indicate that the chances of an occurrence of a cultural eutrophication are low. The pH level in the sediment is also at normal levels..

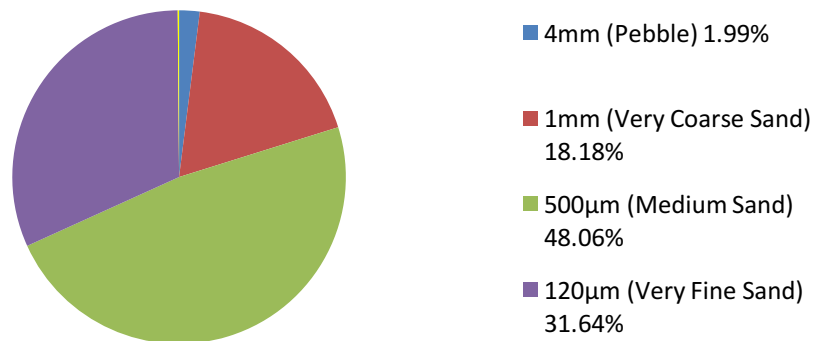
Corbicula:

Two corbicula was found 2-3 m from the bank in Transect 3. Corbicula is an invasive species.

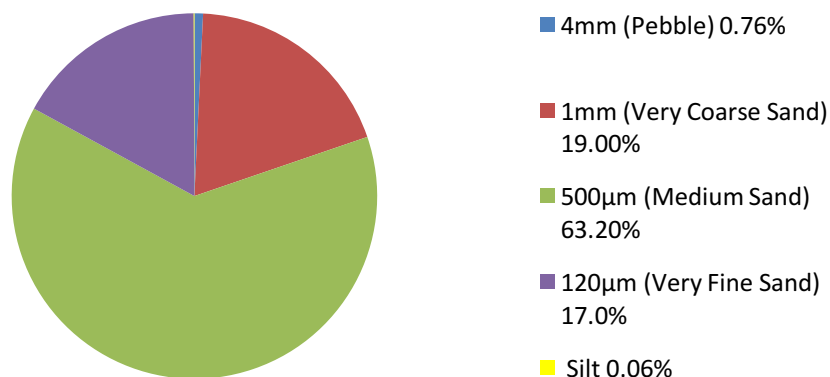
Site D-5 Spring 2015

	4mm		1mm		500 micrometers		120 micrometers		Silt		
Sample #	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Mass (g)	% of total	Total
Transect 5 2-3 m	15.0	1.99	137.0	18.177	362.2	48.056	238.5	31.644	1.0	0.133	753.7
Transect 5 5-6 m	6.9	0.764	171.3	19.0	570.3	63.2	153.7	17.0	0.5	0.055	902.7

Composition of Sediments at Site D, Transect 5, 2-3m (Spring 2015)



Composition of Sediments at Site D, Transect 5, 5-6m (Spring 2015)



Transect	Distance from Bank (m)	Feature	Potassium	pH	Nitrogen	Phosphorus
5	2-3	Run	Very Low	7.0	Trace	Low
5	5-6	Run	Medium Low	6.0	Trace	Low

Sediment Composition:

There is a very low number of pebbles in the creek which is problematic. Organisms can live within the gaps between the pebbles. Silt levels remain low which is good. The sand is largely composed of medium sand and very fine sand.

Chemical Analysis:

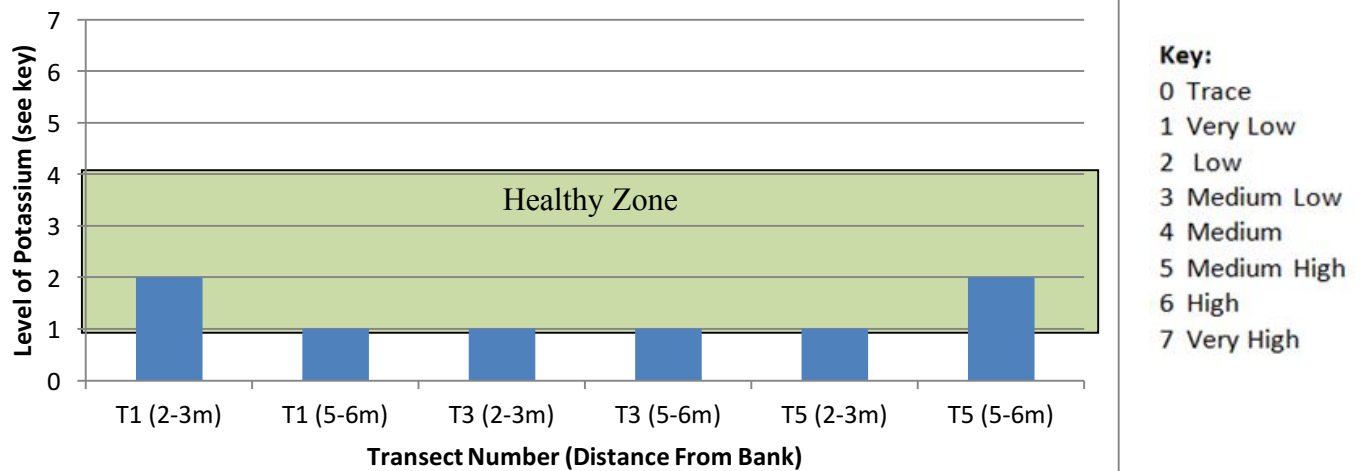
Trace amounts of nitrogen and lower levels of potassium are good signs because they indicate that the chances of an occurrence of a cultural eutrophication are also low. The pH level 5-6 m from the bank is at 6. This is more acidic than is healthy.

Corbicula:

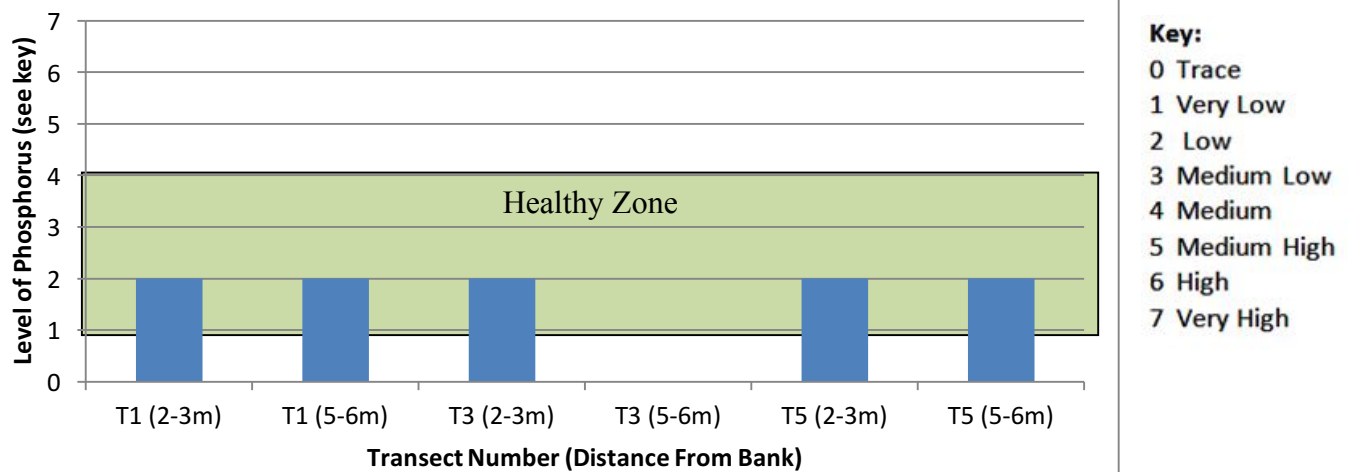
No corbicula shells were found in Transect 3, which indicates a lack of invasive species.

Chemical Testing Graphs

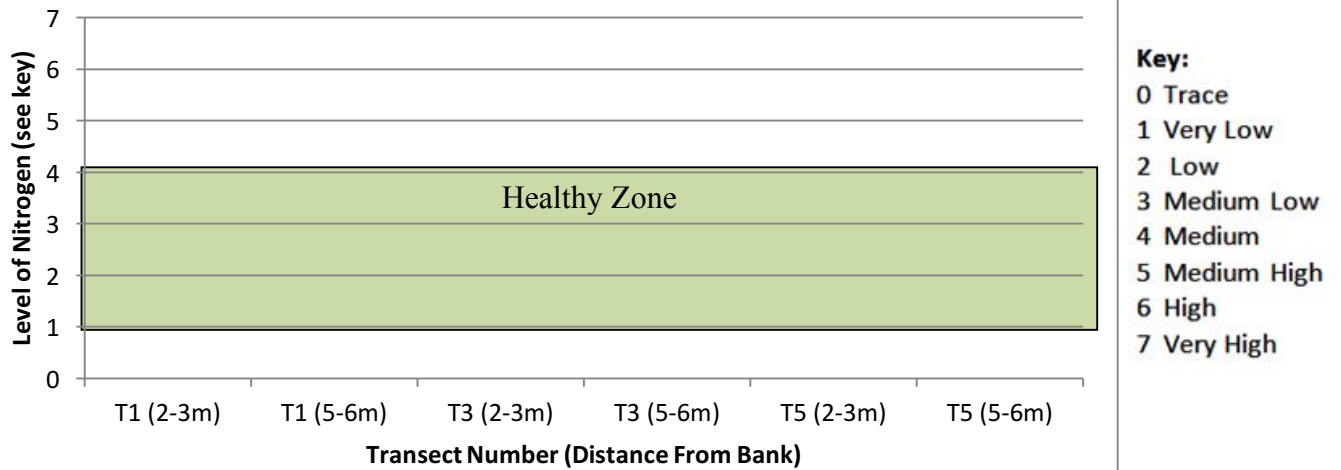
Potassium Testing Results Site D (Spring 2014)



Phosphorus Testing Results Site D (Spring 2015)



Nitrogen Testing Results Site D (Spring 2015)



-All transects showed trace amounts of nitrogen. All below healthy levels of nitrogen.

pH Testing Results Site D (Spring 2015)

