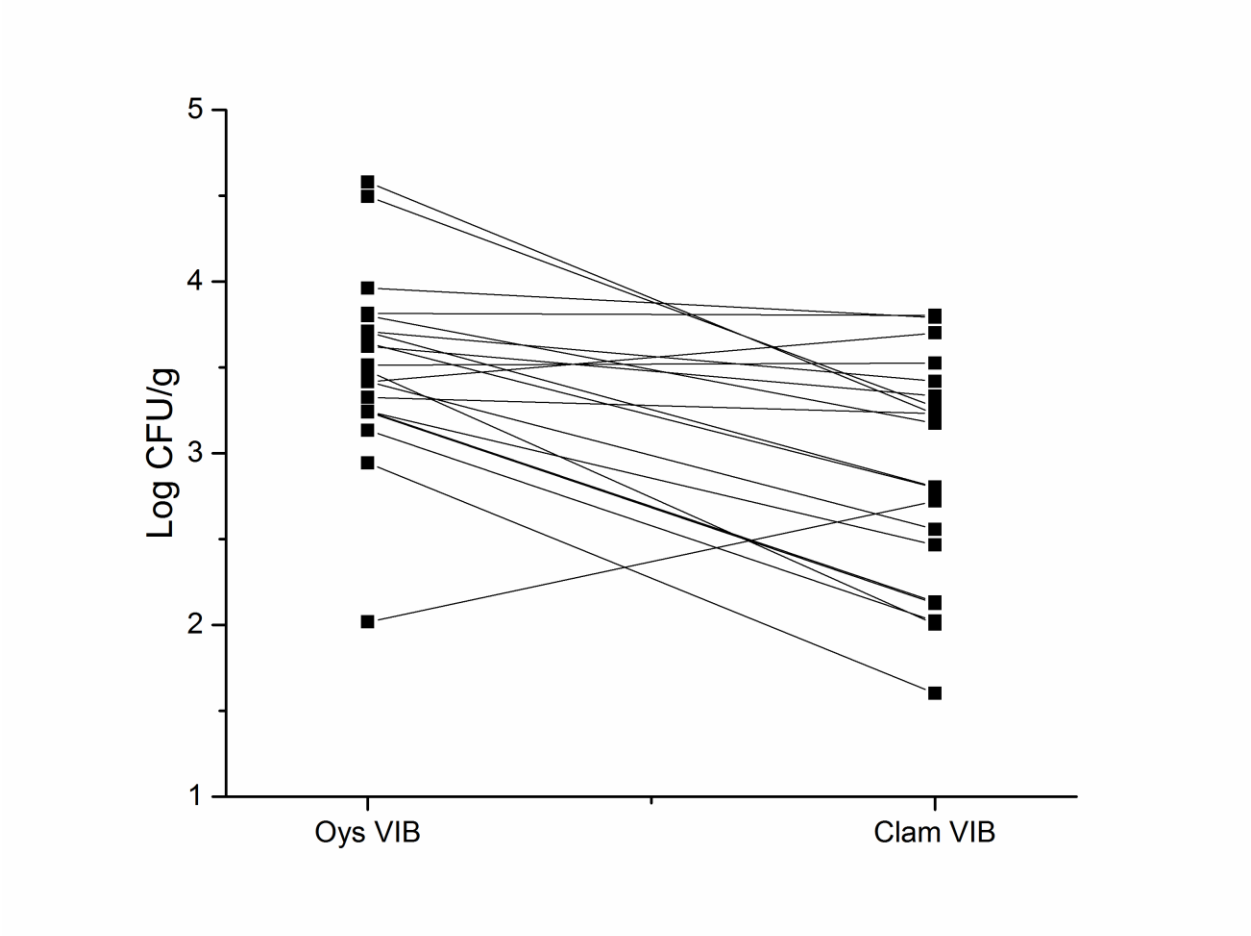

Figure S1: Paired concentrations of total *Vibrio* spp. in oysters and clams from samples harvested simultaneously at the same site.

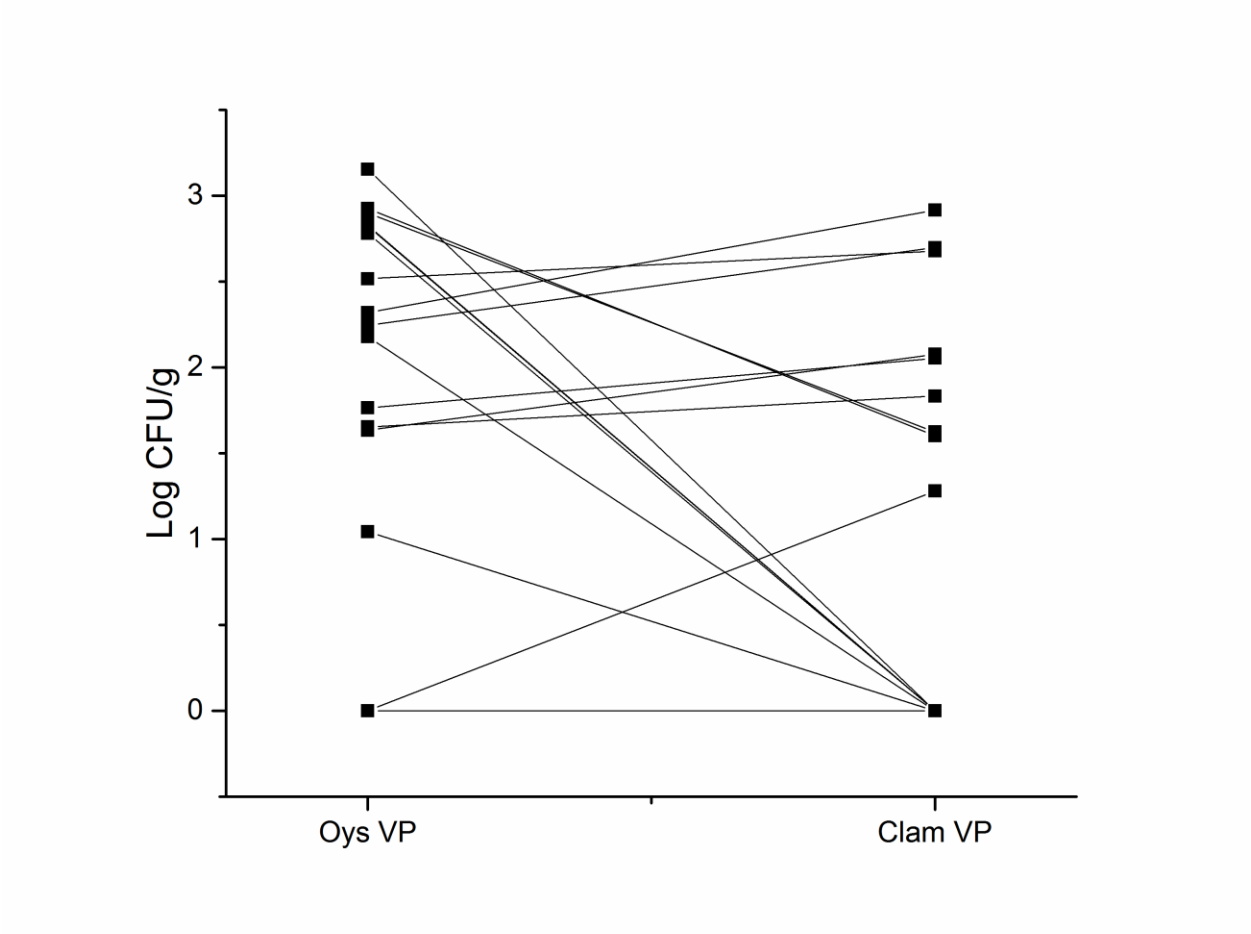

Figure S2: Paired concentrations of *V. parahaemolyticus* in oysters and clams from samples harvested simultaneously at the same site.

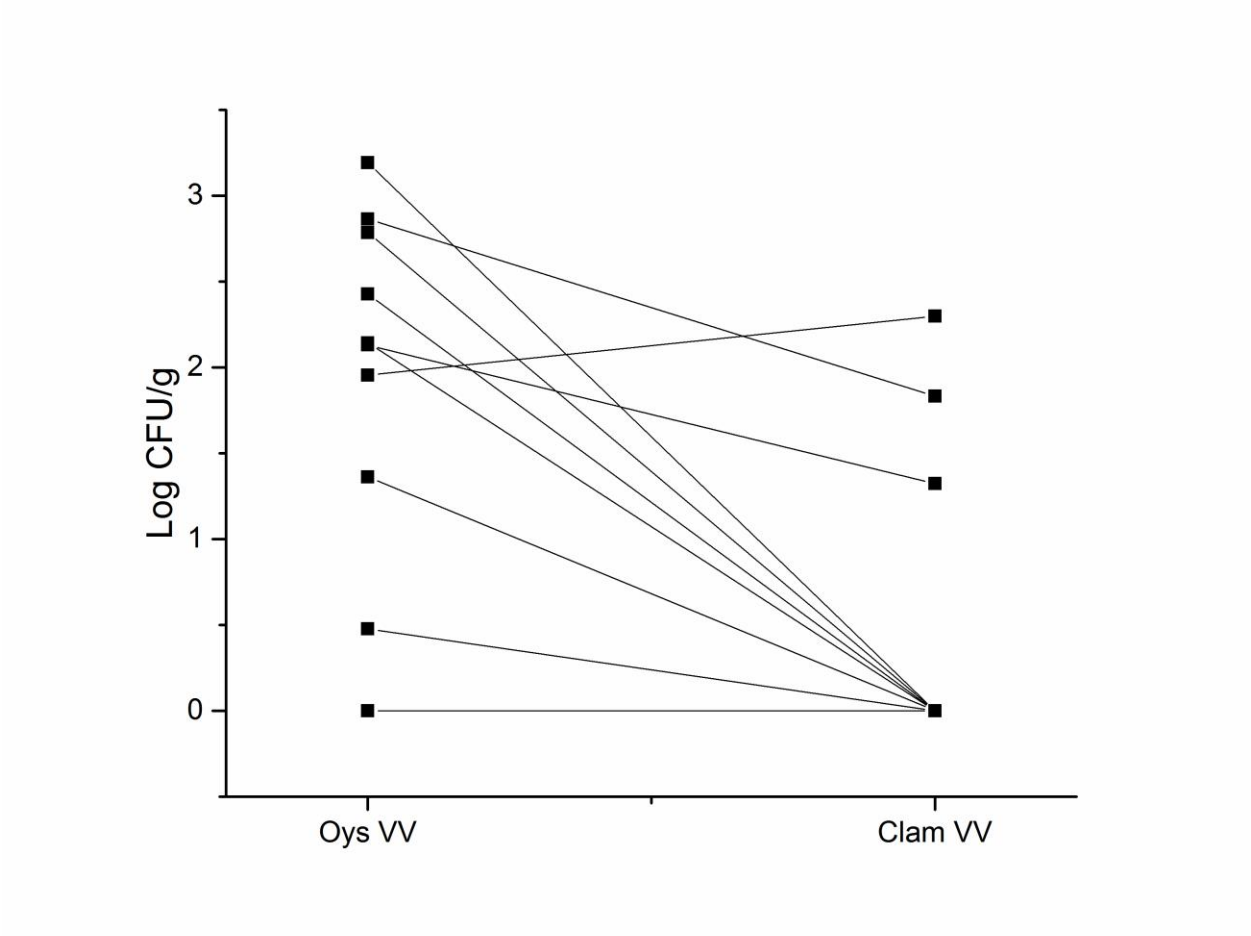

Figure S3: Paired concentrations of *V. vulnificus* in oysters and clams from samples harvested simultaneously at the same site.

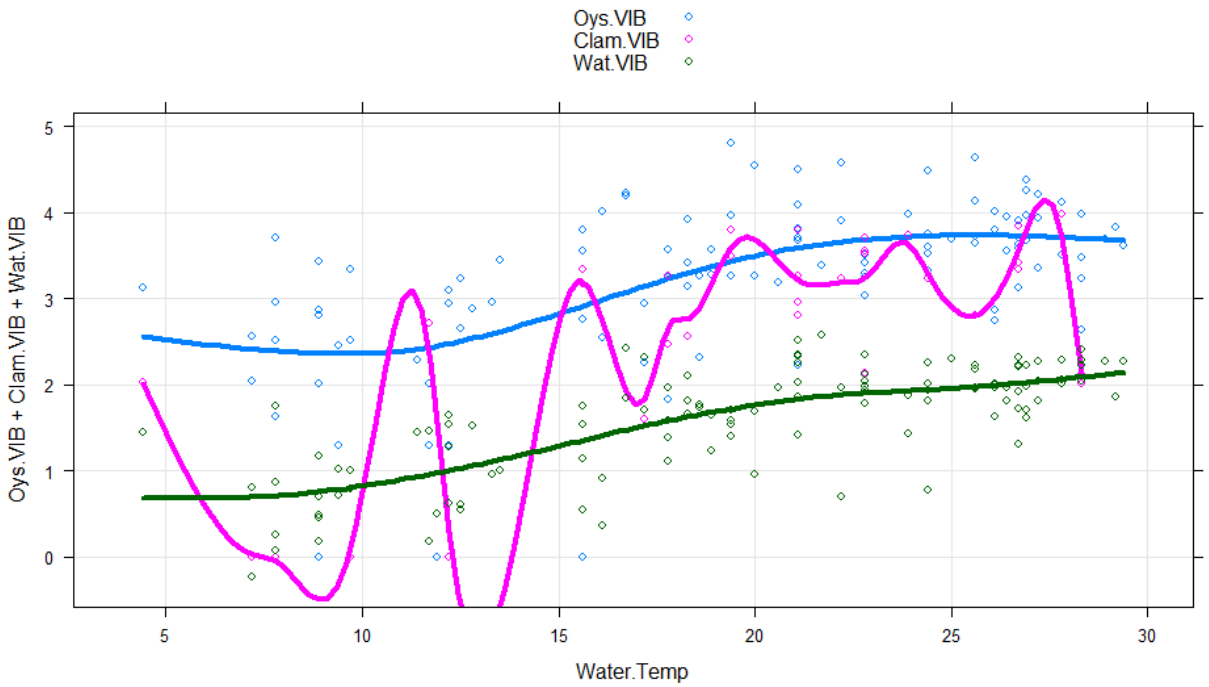

Figure S4: Log total *Vibrio* in oysters (blue), clams (magenta), and water (green) compared to water temperature in Celcius at time of sample collection. Data is displayed in CFU/g for shellfish samples and CFU/ml for water. Circles are individual data while lines are smoothed averages

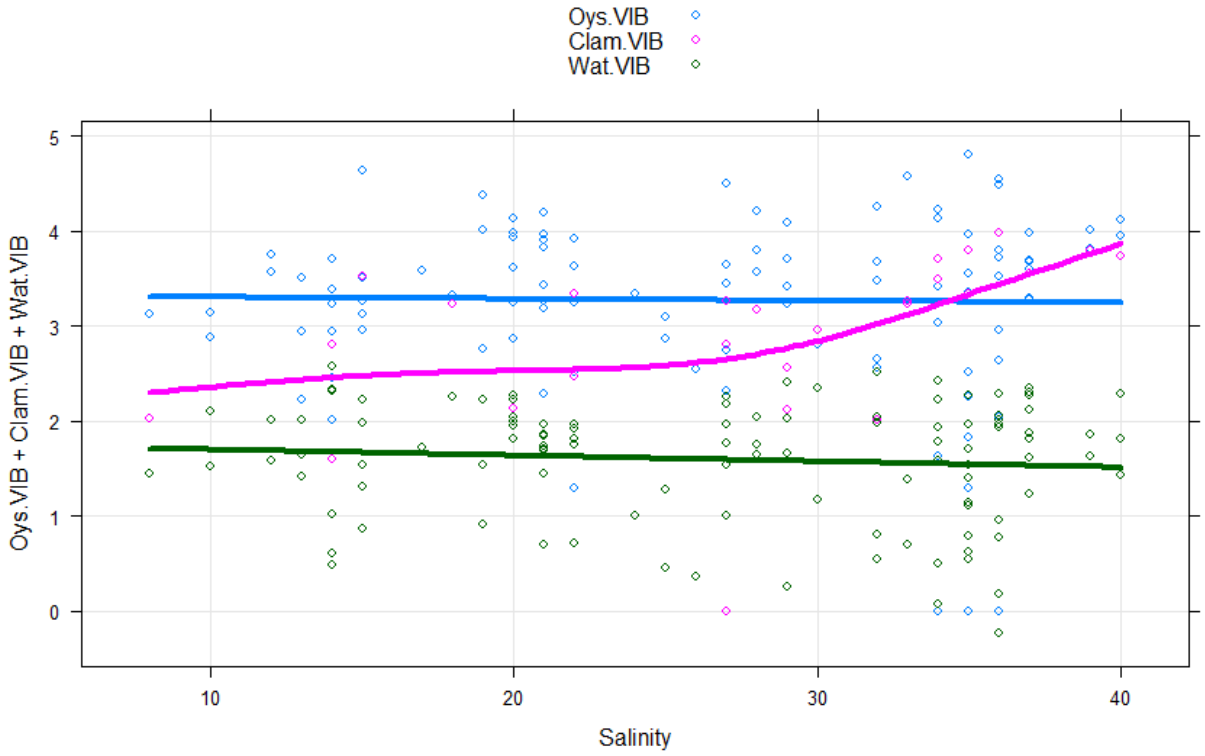

Figure S5: Log total *Vibrio* in oysters (blue), clams (magenta), and water (green) compared to salinity at time of sample collection. Data is displayed in CFU/g for shellfish samples and CFU/ml for water. Circles are individual data while lines are smoothed averages. Salinity is in parts per thousand.

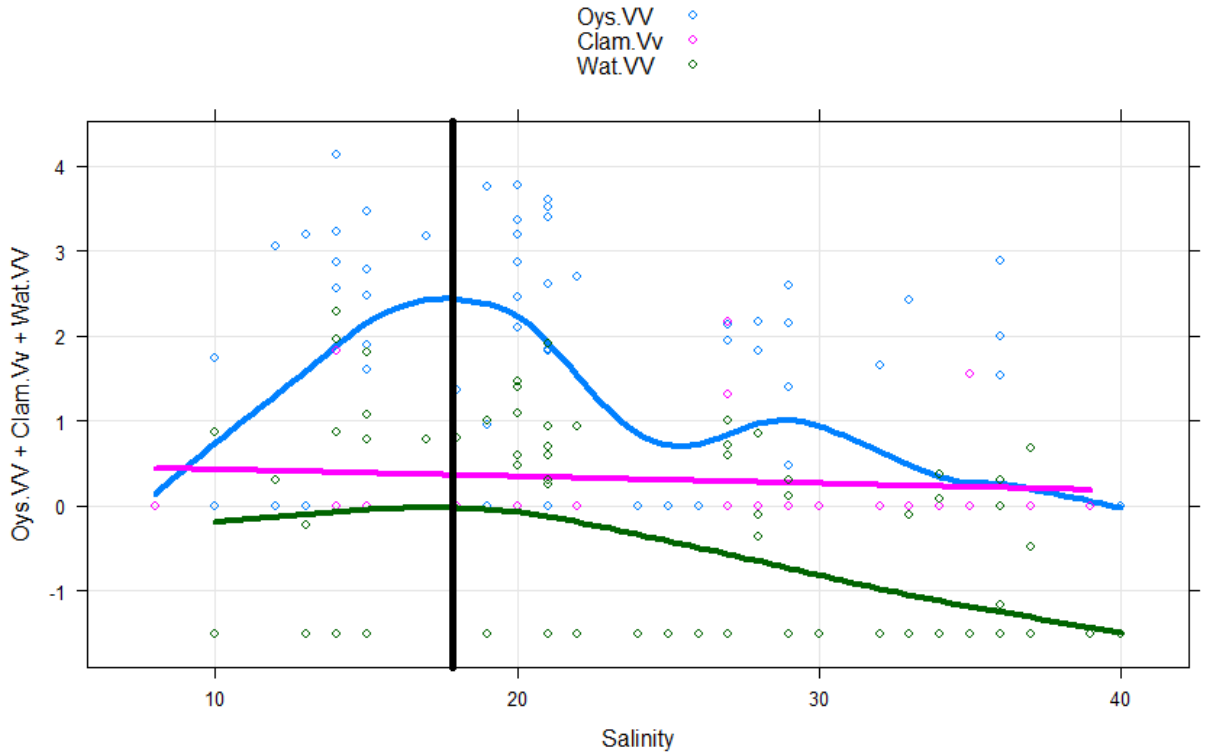

Figure S6: Log *V. vulnificus* in oysters (blue), clams (magenta), and water (green) compared to salinity at time of sample collection. Data is displayed in CFU/g for shellfish samples and CFU/ml for water. Circles are individual data while lines are smoothed averages. Salinity is in parts per thousand. Vertical black line indicates 17 ppt salinity.

Date	Site	Weather Station
2/4/2013	HPC	KNCATLAN1
2/4/2013	HC	KMRH
2/14/2013	TB	KNBT
2/19/2013	HPC	KNCATLAN1
2/27/2013	TB	KNBT
2/28/2013	NR	KNCOTWAY2
3/4/2013	HPC	KNCATLAN1
3/4/2013	HC	KMRH
3/11/2013	SR	KNBT
3/11/2013	NR	KNCOTWAY2
3/19/2013	HPC	KNCATLAN1
3/19/2013	HC	KMRH
3/26/2013	SR	KNBT
3/26/2013	NR	KMRH
4/3/2013	HPC	KNCATLAN1
4/3/2013	HC	KMRH
4/9/2013	SR	KNBT
4/9/2013	NR	KNCOTWAY2
4/17/2013	HPC	KNCATLAN1
4/17/2013	HC	KMRH
4/30/2013	HPC	KNCATLAN1
4/30/2013	HC	KMRH
5/7/2013	SR	KNBT
5/7/2013	NR	KNCOTWAY2
5/22/2013	SR	KNBT
5/22/2013	NR	KNCOTWAY2
5/28/2013	HPC	KNCATLAN1
5/28/2013	HC	KMRH
6/5/2013	NR	KNCOTWAY2
6/12/2013	HPC	KNCATLAN1
6/12/2013	HC	KMRH
6/19/2013	NR	KNCOTWAY2
6/19/2013	SR	KNBT
6/25/2013	HPC	KNCATLAN1
6/25/2013	HC	KMRH
7/3/2013	NR	KNCOTWAY2
7/3/2013	SR	KNBT
7/29/2013	SR	KNBT
8/7/2013	HPC	KNCATLAN1
8/7/2013	HC	KMRH
8/14/2013	SR	KNBT
8/14/2013	NR	KMRH & KNCOTWAY2
9/4/2013	HPC	KNCATLAN1
9/4/2013	HC	KMRH
9/25/2013	SR	KNBT
9/25/2013	NR	KNCOTWAY2
10/2/2013	HPC	KNCATLAN1
10/2/2013	HC	KMRH
10/23/2013	SR	KNBT
10/23/2013	NR	KNCOTWAY2
11/7/2013	SR	KNBT
11/7/2013	NR	KNCOTWAY2
11/20/2013	HC	KMRH
11/20/2013	HPC	KNCATLAN5
12/18/2013	SR	KNBT
12/18/2013	NR	KMRH
1/15/2014	NR	KNCOTWAY2
1/15/2014	SR	KNBT
1/21/2014	HPC	KNCATLAN1
2/21/2014	HPC	KNCATLAN1
2/21/2014	HC	KMRH
2/27/2014	SR	KNBT
2/27/2014	NR	KNCOTWAY2
3/12/2014	HPC	KNCMOREH10
3/12/2014	HC	KMRH
3/20/2014	SR	KNBT
4/25/2014	HPC	KMRH
4/25/2014	HC	KMRH
5/1/2014	SR	KNBT
5/8/2014	HPC	KNCATLAN1
5/8/2014	HC	KMRH
5/23/2014	SR	KNBT
5/30/2014	HC	KMRH
5/30/2014	HPC	KNCATLAN1
6/4/2014	HPC	KNCATLAN1
6/11/2014	HPC	KNCATLAN1
6/13/2014	SR	KNBT
6/20/2014	HPC	KNCATLAN1
6/20/2014	HC	KMRH
6/27/2014	HPC	KNCATLAN1
7/18/2014	HPC	KNCATLAN1
7/18/2014	HC	KMRH

Date	Site	Weather Station
8/12/2014	CC	KNCMOREH6
8/12/2014	HPC	KNCATLAN1
8/15/2014	SR	KNBT
8/29/2014	HC	KMRH
9/26/2014	HPC	KNCATLAN1
10/16/2014	HC	KMRH
10/16/2014	HPC	KNCATLAN1
10/28/2014	SR	KNBT
11/6/2014	HC	KMRH
11/6/2014	HPC	KNCATLAN1
11/10/2014	HPC	KNCATLAN1
2/28/2015	HC	KMRH
3/13/2015	SR	KNCORIEN5
3/27/2015	HPC	KMRH
3/27/2015	HC	KMRH
4/10/2015	SR	KNKT
4/17/2015	HC	KMRH
4/30/2015	SR	KNBT
5/12/2015	HC	KMRH
6/5/2015	SR	KNBT
6/10/2015	HC	KMRH
6/26/2015	SR	KNBT
7/7/2015	HC	KMRH
7/24/2015	HC	KMRH
7/30/2015	SR	KNBT
8/12/2015	SR	KNBT
9/11/2015	SR	KNBT
9/22/2015	HC	KMRH
10/16/2015	HC	KMRH
9/25/2013	NR	KNCATLAN1
10/2/2013	HPC	KNCATLAN1
10/2/2013	HC	KMRH
10/23/2013	NR	KNCOTWAY2
3/12/2014	HC	KMRH
3/20/2014	JNR	KNJM
4/25/2014	JNR	KNJM
4/25/2014	HC	KMRH
5/8/2014	BS	KNJM
5/8/2014	HC	KMRH
5/30/2014	HC	KMRH
5/30/2014	JNR	KNCNEWPO15
6/4/2014	JNR	KNCNEWPO15
6/20/2014	HC	KMRH
6/20/2014	BS	KNJM
6/27/2014	JNR	KNCNEWPO15
7/18/2014	HC	KMRH
7/18/2014	JNR	KNCNEWPO15
8/29/2014	HC	KMRH
10/16/2014	HC	KMRH
10/16/2014	JNR	KNCNEWPO15
11/6/2014	JNR	KNCNEWPO15
11/6/2014	HC	KMRH
11/10/2014	JNR	KNCNEWPO15
2/28/2015	HC	KMRH
3/27/2015	HC	KMRH
3/27/2015	BS	KNJM
4/17/2015	BS	KNJM
4/17/2015	HC	KMRH
5/12/2015	HC	KMRH
6/10/2015	HC	KMRH
7/17/2015	BS	KNJM
7/24/2015	HC	KMRH
9/22/2015	HC	KMRH
10/16/2015	HC	KMRH

Table S1: Weather stations used for meteorological data for each site and sampling date. HPC = Hoop Pole Creek, HC = Harlowe Creek, TB = Turnagain Bay, SR = South River, CC = Calico Creek, NR = North River, JNR = Jumping Run Creek, SC = Spooners Creek, BS = Bogue Sound

Spearman Correlations

		Salinity	Water Temp	Time Collected	Oys VIB	Wat VIB	3 precip	3 wind	3 gust	Clam VIB	Tss	DO	pH	Water Depth	Cool 30	Hot30	Wind Spd	Gust
"Salinity"	Spearman Corr.	1	0.16377	-0.01897	0.14583	-0.01527	-0.02264	-0.1882*	-0.2457*	0.64082*	0.13695	-0.06293	0.29816*	-0.44675*	0.15518	-0.15269	-0.11839	0.06478
"Salinity"	p-value	--	0.07513	0.83916	0.13581	0.86911	0.80613	0.0404	0.00732	1.02878E-4	0.38117	0.70739	0.02068	3.14169E-7	0.09336	0.0988	0.1978	0.48209
"Water Temp"	Spearman Corr.	0.16377	1	-0.00904	0.58004	0.71113	0.17564	-0.07203	-0.17236	0.34407	0.36519	-0.08622	0.12323	-0.0248	0.93928	-0.93779	-0.23684	-0.17537
"Water Temp"	p-value	0.07513	--	0.92164	3.85143E-11	0	0.05199	0.43046	0.0587	0.04631	0.01258	0.58719	0.33198	0.78451	0	0	0.00809	0.0514
"Time Collected"	Spearman Corr.	-0.01897	-0.00904	1	0.10837	0.01766	0.19465	-0.15784	-0.02432	0.25	-0.0318	0.33764	0.04034	-0.01921	0.05386	-0.02401	0.08103	0.14123
"Time Collected"	p-value	0.83916	0.92164	--	0.26426	0.84693	0.0324	0.08512	0.79294	0.15388	0.83381	0.02681	0.75163	0.83361	0.55908	0.79461	0.37492	0.12073
"Oys VIB"	Spearman Corr.	0.14583	0.58004	0.10837	1	0.49511	0.32223	-0.17263	-0.19255	0.65564	0.46422	0.08054	0.09295	0.06424	0.67729	-0.653	-0.12735	-0.10991
"Oys VIB"	p-value	0.13581	3.85143E-11	0.26426	--	3.82917E-8	6.33025E-4	0.07401	0.04692	0.0017	0.0038	0.64556	0.51219	0.50496	8.88178E-16	1.88738E-14	0.1849	0.25301
"Wat VIB"	Spearman Corr.	-0.01527	0.71113	0.01766	0.49511	1	0.2223	0.03965	-0.14212	0.00795	0.51223	-0.22405	-0.06832	-0.14644	0.70636	-0.73315	-0.22987	-0.20546
"Wat VIB"	p-value	0.86911	0	0.84693	3.82917E-8	--	0.01347	0.6646	0.11994	0.96442	2.73623E-4	0.14864	0.59168	0.10461	0	0	0.01022	0.02206
"3 precip"	Spearman Corr.	-0.02264	0.17564	0.19465	0.32223	0.2223	1	-0.07428	0.16054	-0.07192	0.15825	0.04689	-0.05804	-0.02463	0.24643	-0.23113	-0.09905	0.01312
"3 precip"	p-value	0.80613	0.05199	0.0324	6.33025E-4	0.01347	--	0.41423	0.07731	0.68608	0.29353	0.76808	0.64873	0.78597	0.00621	0.01042	0.27373	0.88502
"3 wind"	Spearman Corr.	-0.1882	-0.07203	-0.15784	-0.17263	0.03965	-0.07428	1	0.64177	-0.2158	0.08974	-0.14407	-0.10203	-0.09685	-0.10919	0.05341	0.26169	0.14429
"3 wind"	p-value	0.0404	0.43046	0.08512	0.07401	0.6646	0.41423	--	2.22045E-15	0.22028	0.55313	0.36882	0.42239	0.28655	0.23317	0.5607	0.00346	0.11133
"3 gust"	Spearman Corr.	-0.2457	-0.17236	-0.02432	-0.19255	-0.14212	0.16054	0.64177	1	-0.34538	-0.01881	0.01442	-0.28509	0.07989	-0.17879	0.16053	0.1915	0.1427
"3 gust"	p-value	0.00732	0.0587	0.79294	0.04692	0.11994	0.07731	2.22045E-15	--	0.05285	0.90238	0.92962	0.02471	0.38172	0.05072	0.07986	0.0346	0.11689
"Clam VIB"	Spearman Corr.	0.64082	0.34407	0.25	0.65564	0.00795	-0.07192	-0.2158	-0.34538	1	0.21587	0.33235	0.3206	0.10624	0.44424	-0.41334	-0.09299	0.04766
"Clam VIB"	p-value	1.02878E-4	0.04631	0.15388	0.0017	0.96442	0.68608	0.22028	0.05285	--	0.36067	0.2085	0.09625	0.54985	0.0096	0.01681	0.60094	0.78896
"Tss"	Spearman Corr.	0.13695	0.36519	-0.0318	0.46422	0.51223	0.15825	0.08974	-0.01881	0.21587	1	0.02541	-0.17878	-0.41924	0.49313	-0.42136	-0.23774	-0.19123
"Tss"	p-value	0.38117	0.01258	0.83381	0.0038	2.73623E-4	0.29353	0.55313	0.90238	0.36067	--	0.89206	0.23999	0.00335	5.78024E-4	0.00394	0.10758	0.19786
"DO"	Spearman Corr.	-0.06293	-0.08622	0.33764	0.08054	-0.22405	0.04689	-0.14407	0.01442	0.33235	0.02541	1	-0.02407	-0.07584	-0.02218	0.12233	0.33598	0.38619
"DO"	p-value	0.70739	0.58719	0.02681	0.64556	0.14864	0.76808	0.36882	0.92962	0.2085	0.89206	--	0.88279	0.62882	0.88773	0.43454	0.02761	0.01053
"pH"	Spearman Corr.	0.29816	0.12323	0.04034	0.09295	-0.06832	-0.05804	-0.10203	-0.28509	0.3206	-0.17878	-0.02407	1	0.03482	0.04038	-0.04804	-0.09866	-0.0148
"pH"	p-value	0.02068	0.33198	0.75163	0.51219	0.59168	0.64873	0.42239	0.02471	0.09625	0.23999	0.88279	--	0.78305	0.75335	0.70851	0.43427	0.90684
"Water Depth"	Spearman Corr.	-0.44675	-0.0248	-0.01921	0.06424	-0.14644	-0.02463	-0.09685	0.07989	0.10624	-0.41924	-0.07584	0.03482	1	0.03137	-0.00551	-0.00132	-0.10754
"Water Depth"	p-value	3.14169E-7	0.78451	0.83361	0.50496	0.10461	0.78597	0.28655	0.38172	0.54985	0.00335	0.62882	0.78305	--	0.7305	0.95174	0.98836	0.23259
"Cool 30"	Spearman Corr.	0.15518	0.93928	0.05386	0.67729	0.70636	0.24643	-0.10919	-0.17879	0.44424	0.49313	-0.02218	0.04038	0.03137	1	-0.97411	-0.24877	-0.18993
"Cool 30"	p-value	0.09336	0	0.55908	8.88178E-16	0	0.00621	0.23317	0.05072	0.0096	5.78024E-4	0.88773	0.75335	0.7305	--	0	0.00553	0.03537

Table S2: Spearman's rank correlation matrix for total *Vibrio* spp. with significance and correlation coefficients.

		Salinity	Water Temp	Time Collected	Oys VV	Wat VV	3 precip	3 wind	3 gust	Clam Vv	Tss	DO	pH	Water Depth	Cool 30	Hot30	Wind Spd	Gust
"Salinity"	Spearman Corr.	1	0.16377	-0.01897	-0.44789	-0.38578	-0.02264	-0.1882	-0.2457	-0.21099	0.13695	-0.06293	0.29816	-0.44675	0.15518	-0.15269	-0.11839	0.06478
	p-value	--	0.07513	0.83916	2.97468E-6	3.15243E-5	0.80613	0.0404	0.00732	0.27191	0.38117	0.70739	0.02068	3.14169E-7	0.09336	0.0988	0.1978	0.48209
"Water Temp"	Spearman Corr.	0.16377	1	-0.00904	0.42928	0.48428	0.17564	-0.07203	-0.17236	0.05446	0.36519	-0.08622	0.12323	-0.0248	0.93928	-0.93779	-0.23684	-0.17537
	p-value	0.07513	--	0.92164	6.04907E-6	5.48804E-8	0.05199	0.43046	0.0587	0.76719	0.01258	0.58719	0.33198	0.78451	0	0	0.00809	0.0514
"Time Collected"	Spearman Corr.	-0.01897	-0.00904	1	0.00593	0.12693	0.19465	-0.15784	-0.02432	0.12677	-0.0318	0.33764	0.04034	-0.01921	0.05386	-0.02401	0.08103	0.14123
	p-value	0.83916	0.92164	--	0.95332	0.18637	0.0324	0.08512	0.79294	0.48932	0.83381	0.02681	0.75163	0.83361	0.55908	0.79461	0.37492	0.12073
"Oys VV"	Spearman Corr.	-0.44789	0.42928	0.00593	1	0.77604	0.18187	0.01679	-0.05629	0.36171	0.29888	0.11208	-0.16686	0.29946	0.45351	-0.45758	-0.06057	-0.190
	p-value	2.97468E-6	6.04907E-6	0.95332	--	0	0.06732	0.86763	0.57606	0.15369	0.09111	0.55543	0.26771	0.00212	1.91013E-6	1.50292E-6	0.54335	0.0544
"Wat VV"	Spearman Corr.	-0.38578	0.48428	0.12693	0.77604	1	0.19567	0.01736	-0.09735	0.39163	0.4894	0.03028	-0.12701	0.13001	0.53163	-0.51184	-0.14031	-0.17876
	p-value	3.15243E-5	5.48804E-8	0.18637	0	--	0.03868	0.85648	0.31164	0.03234	0.00116	0.85878	0.35093	0.16993	1.92852E-9	9.386E-9	0.13828	0.05814
"3 precip"	Spearman Corr.	-0.02264	0.17564	0.19465	0.18187	0.19567	1	-0.07428	0.16054	0.06179	0.15825	0.04689	-0.05804	-0.02463	0.24643	-0.23113	-0.09905	0.01312
	p-value	0.80613	0.05199	0.0324	0.06732	0.03868	--	0.41423	0.07731	0.73691	0.29353	0.76808	0.64873	0.78597	0.00621	0.01042	0.27373	0.88502
"3 wind"	Spearman Corr.	-0.1882	-0.07203	-0.15784	0.01679	0.01736	-0.07428	1	0.64177	-0.05119	0.08974	-0.14407	-0.10203	-0.09685	-0.10919	0.05341	0.26169	0.14429
	p-value	0.0404	0.43046	0.08512	0.86763	0.85648	0.41423	--	2.22045E-15	0.78082	0.55313	0.36882	0.42239	0.28655	0.23317	0.5607	0.00346	0.11133
"3 gust"	Spearman Corr.	-0.2457	-0.17236	-0.02432	-0.05629	-0.09735	0.16054	0.64177	1	-0.09881	-0.01881	0.01442	-0.28509	0.07989	-0.17879	0.16053	0.1915	0.1427
	p-value	0.00732	0.0587	0.79294	0.57606	0.31164	0.07731	2.22045E-15	--	0.60342	0.90238	0.92962	0.02471	0.38172	0.05072	0.07986	0.0346	0.11685
"Clam Vv"	Spearman Corr.	-0.21099	0.05446	0.12677	0.36171	0.39163	0.06179	-0.05119	-0.09881	1	0.4247	0.50848	-0.33258	-0.0236	0.16501	-0.16378	0.01067	0.04802
	p-value	0.27191	0.76719	0.48932	0.15369	0.03234	0.73691	0.78082	0.60342	--	0.06991	0.06336	0.0969	0.89798	0.37504	0.37864	0.95377	0.79409
"Tss"	Spearman Corr.	0.13695	0.36519	-0.0318	0.29888	0.4894	0.15825	0.08974	-0.01881	0.4247	1	0.02541	-0.17878	-0.41924	0.49313	-0.42136	-0.23774	-0.19123
	p-value	0.38117	0.01258	0.83381	0.09111	0.00116	0.29353	0.55313	0.90238	0.06991	--	0.89206	0.23999	0.00335	5.78024E-4	0.00394	0.10758	0.19780
"DO"	Spearman Corr.	-0.06293	-0.08622	0.33764	0.11208	0.03028	0.04689	-0.14407	0.01442	0.50848	0.02541	1	-0.02407	-0.07584	-0.02218	0.12233	0.33598	0.38619
	p-value	0.70739	0.58719	0.02681	0.55543	0.85878	0.76808	0.36882	0.92962	0.06336	0.89206	--	0.88279	0.62882	0.88773	0.43454	0.02761	0.01053
"pH"	Spearman Corr.	0.29816	0.12323	0.04034	-0.16686	-0.12701	-0.05804	-0.10203	-0.28509	-0.33258	-0.17878	-0.02407	1	0.03482	0.04038	-0.04804	-0.09866	-0.0148
	p-value	0.02068	0.33198	0.75163	0.26771	0.35093	0.64873	0.42239	0.02471	0.0969	0.23999	0.88279	--	0.78305	0.75335	0.70851	0.43427	0.90684
"Water Depth"	Spearman Corr.	-0.44675	-0.0248	-0.01921	0.29946	0.13001	-0.02463	-0.09685	0.07989	-0.0236	-0.41924	-0.07584	0.03482	1	0.03137	-0.00551	-0.00132	-0.10754
	p-value	3.14169E-7	0.78451	0.83361	0.00212	0.16993	0.78597	0.28655	0.38172	0.89798	0.00335	0.62882	0.78305	--	0.7305	0.95174	0.98836	0.23259
"Cool 30"	Spearman Corr.	0.15518	0.93928	0.05386	0.45351	0.53163	0.24643	-0.10919	-0.17879	0.16501	0.49313	-0.02218	0.04038	0.03137	1	-0.97411	-0.24877	-0.18993
	p-value	0.09336	0	0.55908	1.91013E-6	1.92852E-9	0.00621	0.23317	0.05072	0.37504	5.78024E-4	0.88773	0.75335	0.7305	--	0	0.00553	0.03537
"Hot30"	Spearman Corr.	-0.15269	-0.93779	-0.02401	-0.45758	-0.51184	-0.23113	0.05341	0.16053	-0.16378	-0.42136	0.12233	-0.04804	-0.00551	-0.97411	1	0.24369	0.17977
	p-value	0.0988	0	0.79461	1.50292E-6	9.386E-9	0.01042	0.5607	0.07986	0.37864	0.00394	0.43454	0.70851	0.95174	0	--	0.0066	0.04663
"Wind Spd"	Spearman Corr.	-0.11839	-0.23684	0.08103	-0.06057	-0.14031	-0.09905	0.26169	0.1915	0.01067	-0.23774	0.33598	-0.09866	-0.00132	-0.24877	0.24369	1	0.90992
	p-value	0.1978	0.00809	0.37492	0.54335	0.13828	0.27373	0.00346	0.0346	0.95377	0.10758	0.02761	0.43427	0.98836	0.00553	0.0066	--	0
"Gust"	Spearman Corr.	0.06478	-0.17537	0.14123	-0.1901	-0.17878	0.01312	0.14429	0.1427	0.04802	-0.19123	0.38619	-0.0148	-0.10754	-0.18993	0.17977	0.90992	1
	p-value	0.48209	0.0514	0.12073	0.05444	0.05814	0.88502	0.11133	0.11689	0.79409	0.19786	0.01053	0.90684	0.23259	0.03537	0.04663	0	--

2-tailed test of significance is used

Table S3: Spearman's rank correlation matrix for total *V. vulnificus* with significance and correlation coefficients.

		Salinity	Water Temp	Time Collected	Oys VP	Wat VP	3 precip	3 wind	3 gust	Clam VP	Tss	DO	pH	Water Depth	Wind Spd	Gust	Cool 30	Hot30
"Salinity"	Spearman Corr.	1	0.16377	-0.01897	0.1606	2.98567E-4	-0.02264	-0.1882	-0.2457	0.24886	0.13695	-0.06293	0.29816	-0.44675	-0.11839	0.06478	0.15518	-0.15269
	p-value	--	0.07513	0.83916	0.10686	0.99753	0.80613	0.0404	0.00732	0.17701	0.38117	0.70739	0.02068	3.14169E-7	0.1978	0.48209	0.09336	0.0988
"Water Temp"	Spearman Corr.	0.16377	1	-0.00904	0.58775	0.69426	0.17564	-0.07203	-0.17236	0.36375	0.36519	-0.08622	0.12323	-0.0248	-0.23684	-0.17537	0.93928	-0.93779
	p-value	0.07513	--	0.92164	4.35216E-11	0	0.05199	0.43046	0.0587	0.03445	0.01258	0.58719	0.33198	0.78451	0.00809	0.0514	0	0
"Time Collected"	Spearman Corr.	-0.01897	-0.00904	1	0.01696	0.07185	0.19465	-0.15784	-0.02432	0.33494	-0.0318	0.33764	0.04034	-0.01921	0.08103	0.14123	0.05386	-0.02401
	p-value	0.83916	0.92164	--	0.86431	0.45155	0.0324	0.08512	0.79294	0.05283	0.83381	0.02681	0.75163	0.83361	0.37492	0.12073	0.55908	0.79461
"Oys VP"	Spearman Corr.	0.1606	0.58775	0.01696	1	0.64366	0.27671	-0.04148	-0.08603	0.15694	0.3951	-0.09768	-0.05375	-0.13242	-0.11252	-0.05801	0.61142	-0.61403
	p-value	0.10686	4.35216E-11	0.86431	--	6.68576E-13	0.00427	0.67586	0.38755	0.52111	0.02074	0.59483	0.7167	0.17602	0.25079	0.55476	5.42633E-12	4.16356E-12
"Wat VP"	Spearman Corr.	2.98567E-4	0.69426	0.07185	0.64366	1	0.20132	-0.07295	-0.17575	0.42549	0.43383	0.03358	-0.17951	-0.16109	-0.1627	-0.11078	0.67349	-0.68867
	p-value	0.99753	0	0.45155	6.68576E-13	--	0.03172	0.44256	0.0638	0.01519	0.00326	0.83702	0.16994	0.08546	0.08233	0.23856	2.22045E-16	0
"3 precip"	Spearman Corr.	-0.02264	0.17564	0.19465	0.27671	0.20132	1	-0.07428	0.16054	-0.15382	0.15825	0.04689	-0.05804	-0.02463	-0.09905	0.01312	0.24643	-0.23113
	p-value	0.80613	0.05199	0.0324	0.00427	0.03172	--	0.41423	0.07731	0.38508	0.29353	0.76808	0.64873	0.78597	0.27373	0.88502	0.00621	0.01042
"3 wind"	Spearman Corr.	-0.1882	-0.07203	-0.15784	-0.04148	-0.07295	-0.07428	1	0.64177	-0.18487	0.08974	-0.14407	-0.10203	-0.09685	0.26169	0.14429	-0.10919	0.05341
	p-value	0.0404	0.43046	0.08512	0.67586	0.44256	0.41423	--	2.22045E-15	0.29523	0.55313	0.36882	0.42239	0.28655	0.00346	0.11133	0.23317	0.5607
"3 gust"	Spearman Corr.	-0.2457	-0.17236	-0.02432	-0.08603	-0.17575	0.16054	0.64177	1	-0.17948	-0.01881	0.01442	-0.28509	0.07989	0.1915	0.1427	-0.17879	0.16053
	p-value	0.00732	0.0587	0.79294	0.38755	0.0638	0.07731	2.22045E-15	--	0.32565	0.90238	0.92962	0.02471	0.38172	0.0346	0.11689	0.05072	0.07986
"Clam VP"	Spearman Corr.	0.24886	0.36375	0.33494	0.15694	0.42549	-0.15382	-0.18487	-0.17948	1	0.1275	0.28258	0.2276	-0.13626	0.26953	0.3273	0.35083	-0.37658
	p-value	0.17701	0.03445	0.05283	0.52111	0.01519	0.38508	0.29523	0.32565	--	0.59219	0.28894	0.2441	0.44224	0.12319	0.05882	0.04531	0.03077
"Tss"	Spearman Corr.	0.13695	0.36519	-0.0318	0.3951	0.43383	0.15825	0.08974	-0.01881	0.1275	1	0.02541	-0.17878	-0.41924	-0.23774	-0.19123	0.49313	-0.42136
	p-value	0.38117	0.01258	0.83381	0.02074	0.00326	0.29353	0.55313	0.90238	0.59219	--	0.89206	0.23999	0.00335	0.10758	0.19786	5.78024E-4	0.00394
"DO"	Spearman Corr.	-0.06293	-0.08622	0.33764	-0.09768	0.03358	0.04689	-0.14407	0.01442	0.28258	0.02541	1	-0.02407	-0.07584	0.33598	0.38619	-0.02218	0.12233
	p-value	0.70739	0.58719	0.02681	0.59483	0.83702	0.76808	0.36882	0.92962	0.28894	0.89206	--	0.88279	0.62882	0.02761	0.01053	0.88773	0.43454
"pH"	Spearman Corr.	0.29816	0.12323	0.04034	-0.05375	-0.17951	-0.05804	-0.10203	-0.28509	0.2276	-0.17878	-0.02407	1	0.03482	-0.09866	-0.0148	0.04038	-0.04804
	p-value	0.02068	0.33198	0.75163	0.7167	0.16994	0.64873	0.42239	0.02471	0.2441	0.23999	0.88279	--	0.78305	0.43427	0.90684	0.75335	0.70851
"Water Depth"	Spearman Corr.	-0.44675	-0.0248	-0.01921	-0.13242	-0.16109	-0.02463	-0.09685	0.07989	-0.13626	-0.41924	-0.07584	0.03482	1	-0.00132	-0.10754	0.03137	-0.00551
	p-value	3.14169E-7	0.78451	0.83361	0.17602	0.08546	0.78597	0.28655	0.38172	0.44224	0.00335	0.62882	0.78305	--	0.98836	0.23259	0.7305	0.95174
"Wind Spd"	Spearman Corr.	-0.11839	-0.23684	0.08103	-0.11252	-0.1627	-0.09905	0.26169	0.1915	0.26953	-0.23774	0.33598	-0.09866	-0.00132	1	0.90992	-0.24877	0.24369
	p-value	0.1978	0.00809	0.37492	0.25079	0.08233	0.27373	0.00346	0.0346	0.12319	0.10758	0.02761	0.43427	0.98836	--	0	0.00553	0.0066
"Gust"	Spearman Corr.	0.06478	-0.17537	0.14123	-0.05801	-0.11078	0.01312	0.14429	0.1427	0.3273	-0.19123	0.38619	-0.0148	-0.10754	0.90992	1	-0.18993	0.17977
	p-value	0.48209	0.0514	0.12073	0.55476	0.23856	0.88502	0.11133	0.11689	0.05882	0.19786	0.01053	0.90684	0.23259	0	--	0.03537	0.04663
"Cool 30"	Spearman Corr.	0.15518	0.93928	0.05386	0.61142	0.67349	0.24643	-0.10919	-0.17879	0.35083	0.49313	-0.02218	0.04038	0.03137	-0.24877	-0.18993	1	-0.97411
	p-value	0.09336	0	0.55908	5.42633E-12	2.22045E-16	0.00621	0.23317	0.05072	0.04531	5.78024E-4	0.88773	0.75335	0.7305	0.00553	0.03537	--	0
"Hot30"	Spearman Corr.	-0.15269	-0.93779	-0.02401	-0.61403	-0.68867	-0.23113	0.05341	0.16053	-0.37658	-0.42136	0.12233	-0.04804	-0.00551	0.24369	0.17977	-0.97411	1
	p-value	0.0988	0	0.79461	4.16356E-12	0	0.01042	0.5607	0.07986	0.03077	0.00394	0.43454	0.70851	0.95174	0.0066	0.04663	0	--

2-tailed test of significance is used

Table S4: Spearman's rank correlation matrix for total *V. parahaemolyticus* with significance and correlation coefficients.