Table S1. Primers used in qPCR

Primer name	Sequence (5′→3′)	Target gene	Amplicon size [bp]	Annealing temperature [°C]	Reference
U16SRT-F	ACTCCTACGGGAGGCAGCA(	bacterial 16S rRNA	180	60	[1]
U16SRT-R	TATTACCGCGGCTGCTGGC				
RTC_F (etnC)	ACCCTGGTCGGTGTKSTYTC	alkene monooxygenase (*etnC*)	106	60	[2]
RTC_R (etnC)	TCATGTAMGAGCCGACGAA(				
RTE_F (etnE)	CAGAAYGGCTGYGACATYAT	epoxyalkane: coenzyme M transferase (*etnE*)	151	60	[2]
RTE_R (etnE)	CSGGYGTRCCCGAGTAGTTW				
mmoX536F	CGCTGTGGAAGGGCATGAA(	soluble methane monooxygenase (*mmoX*)	362	60	[3]
mmoX898R	GCTCGACCTTGAACTTGGAG				
pmoA472-A189F	GGNGACTGGGACTTCTGG	particulate methane monooxygenase (*pmoA*)	472	60	[4]
pmoA472-mb661F	CCGGMGCAACGTCYTTACC				
vcrA880F	CCCTCCAGATGCTCCCTTTA	vinyl chloride reductase (*vcrA*)	139	60	[5]
vcrA1018R	ATCCCCTCTCCCGTGTAACC				
bvcA277F	TGGGGACCTGTACCTGAAAA	vinyl chloride reductase (*bvcA*)	247	60	[5]
bvcA523R	CAAGACGCATTGTGGACATC				
DHC793f	GGGAGTATCGACCCTCTCTG	*Dehalococcoides* spp. 16S rRNA	191	60	[6]
DHC946r	CGTTYCCCTTTCRGTTCACT				
mod-BL-DC-1243f	GGYACAATGGGTTGCCACCC	*Dehalogenimonas* spp. 16S rRNA	127	68	[7]
BL-DC-1351r	AACGCGCTATGCTGACACGC				
Dsb406F	GTACGACGAAGGCCTTCGGC	*Desulfitobacterium* spp. 16S rRNA	213	60	[8]
Dsb619R	CCCAGGGTTGAGCCCTAGGT				
Dre441F	GTTAGGGAAGAACGGCATC	*Dehalobacter* spp. 16S rRNA	205	55	[8]
Dre645R	CCTCTCCTGTCCTCAAGCCAT				

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Table S2. Hydrochemical data and assessment of predominant redox processes

Sample Identification						pH	Eh	NO_3^-	Mn	Fe	Methane	TOC	SO_4^{2-}	H_2S	PCE	TCE	*cis*-DCE	VC	Ethene	Ethane	Cl no.	Predominant Redox Process**					
Sample ID	Site ID	Plume ID	Sampling date DD.MM.YY	Affected by whey application Y/N	Time elapsed after the last whey application (months)		mV	mg/l	mg/l	mg/l	µg/l	mg/l	mg/l	mg/l	mM	mM	mM	mM	mM	mM		NO_3^- reduc	Mn(IV) reduction	Fe(III) reduction	mix Fe(III)/SO_4^{2-} reduction	SO_4^{2-} reduction	methanogenesis
AT-15	1	1_1	24.01.19	Y	1	5.51	128	0.3	6.8	268.3	2614.0	396.3	6.5	2.43	3.0E-06	3.8E-06	4.0E-01	1.2E-01	2.6E-02	8.1E-04	1.7						
AT-19	1	1_1	01.05.19	N	NA	6.73	218.9	8.4	6.5	3.8	410.0	2.4	31.9	0.0025	2.0E-03	7.7E-02	4.5E-02	4.2E-03	3.2E-03	1.5E-04	2.5						
AT-20	1	1_1	01.05.19	N	NA	6.64	436	0.9	0.5	0.9	29.7	2.3	23.4	0.0025	8.9E-03	2.9E-01	3.4E-01	1.4E-03	8.9E-04	8.3E-05	2.5						
AT-21	1	1_1	01.05.19	N	NA	7.12	148	0.3	5.2	11.4	5.7	1.6	21.9	0.03	5.8E-05	2.8E-04	1.5E-03	5.1E-05	3.6E-05	3.3E-05	2.1						
SV10	2	2_1	24.01.19	Y*	8	6.01	155	0.3	NA	0.6	8.7	39.8	24.3	1.44	3.0E-05	1.3E-01	6.7E-02	1.6E-04	1.2E-03	3.8E-04	2.6						
VS-5	2	2_1	24.01.19	Y*	8	7.1	212	0.2	NA	0.1	17.9	6.3	20.4	0.0025	1.7E-02	3.7E-02	8.8E-02	1.1E-03	5.5E-03	1.0E-03	2.4						
A L	3	3_1	04.02.19	N	NA	7.24	-19	0.3	0.6	2.0	3076.0	6.6	107	0.0025	9.0E-05	3.8E-06	5.2E-06	7.4E-04	1.4E-03	1.2E-03	0.3						
B IV.	3	3_1	04.02.19	N*	NA	7	163	0.3	0.3	8.4	425.0	12.9	9.1	0.0025	1.4E-02	2.3E+00	6.9E-01	4.9E-03	4.4E-02	1.0E-02	2.7						
SM-7D	3	3_2	04.02.19	Y	16	6.8	90	0.3	4.3	37.9	5873.0	550	1.1	0.0025	1.0E-04	9.5E-03	7.6E-01	1.9E-01	5.5E-01	6.7E-04	1.1						
VS-7S_1	3	3_3	18.07.17	N*	NA	7.8	324	0.3	0.33	0.07	40.7	4.6	68.2	0.62	4.6E-04	8.7E-02	1.0E-02	8.0E-06	3.6E-05	3.3E-05	2.9						
VS-7S_2	3	3_3	13.10.17	Y	1	6.64	132	0.3	1.16	0.23	220.5	14.45	5.0	0.55	3.0E-06	2.2E-03	3.6E-02	2.2E-02	1.2E-02	1.0E-03	1.4						
VS-7S_3	3	3_3	12.02.18	Y	4	7	151	0.3	1.72	0.80	889.3	3.1	0.5	1.11	4.6E-04	5.2E-03	7.0E-02	6.9E-02	2.6E-02	2.5E-03	1.3						
VS-7S_4	3	3_3	26.03.18	Y	5	7.21	134	0.3	1.68	2.08	476.9	3.47	0.5	0.86	2.7E-03	2.1E-03	3.6E-02	2.9E-02	1.4E-02	1.3E-03	1.4						
VS-7S_5	3	3_3	04.02.19	Y	16	6.54	186	0.3	7.4	24.5	3740.0	10.7	531	0.0025	3.7E-03	3.0E-01	1.4E+00	2.2E-02	3.0E-02	3.2E-03	2.1						
Std_1	3	3_3	18.07.17	N	NA	8.06	-31	0.3	0.76	0.01	64.9	2	39.1	0.31	3.0E-06	5.5E-03	1.4E-01	4.0E-03	5.8E-03	7.2E-03	1.8						
Std_2	3	3_3	13.10.17	Y	1	6.51	41	0.3	1.61	10.57	2771.9	35.76	5.0	2.41	3.0E-06	2.9E-04	7.5E-02	2.9E-02	1.3E-01	5.6E-03	0.7						
Std_3	3	3_3	12.02.18	Y	4	7.16	18	0.3	1.90	13.50	2131.4	59.5	0.5	0.17	3.0E-06	3.8E-06	8.4E-04	8.0E-06	1.8E-02	1.5E-02	0.1						
Std_4	3	3_3	26.03.18	Y	5	7.17	-3	0.3	1.70	2.40	4321.9	43.7	0.5	0.28	1.1E-03	7.2E-04	1.2E-03	8.0E-06	4.8E-03	2.5E-02	0.3						
SM-8_1	3	3_3	18.07.17	N	NA	6.77	48	0.3	1.36	14.45	2193.6	3.3	17.0	0.85	7.0E-03	1.8E-01	3.2E-01	9.7E-02	4.3E-02	3.0E-02	1.9						
SM-8_2	3	3_3	13.10.17	Y	1	6.3	21	0.3	2.01	16.47	6030.1	36.76	144.0	1	3.0E-06	5.4E-04	4.7E-03	7.7E-03	1.7E-01	3.0E-02	0.1						
SM-8_3	3	3_3	12.02.18	Y	4	6.5	107	0.3	5.49	46.18	12441.6	7.4	17.5	1.92	1.4E-04	2.6E-04	1.2E-03	8.0E-06	1.2E-03	3.8E-02	0.1						
SM-8_4	3	3_3	26.03.18	Y	5	6.45	100	0.3	1.91	8.31	9092.1	4.93	38.1	0.02	7.9E-04	5.2E-04	7.9E-04	8.0E-06	7.2E-04	2.6E-02	0.2						
AP 2	4	4_1	05.02.19	Y	28	6.71	144	0.3	8.6	31.5	2564.0	6.1	58.3	0.025	1.5E-05	8.0E-05	2.0E-02	1.8E-02	7.0E-03	9.3E-04	1.3						
HV-16	4	4_1	09.04.19	N	NA	5.65	300	6.2	1.1	1.7	12.8	3.8	102	0.05	2.4E-04	3.7E-03	1.7E-03	1.2E-04	3.6E-05	7.0E-05	2.7						
HV-25	4	4_1	09.04.19	Y	50	6.14	267	1.2	6.3	21.5	2300.0	9.7	62.2	0.04	2.0E-04	2.2E-03	6.1E-03	1.6E-03	8.9E-04	1.5E-03	1.7						
HV-8_1	4	4_1	03.08.16	Y	50	6.46	78	0.3	2.33	8.09	6007.5	11.6	36.5	0.2	1.0E-04	5.0E-04	1.1E-03	9.0E-04	1.6E-03	1.0E-03	1.2						
HV-8_2	4	4_1	10.10.16	Y	1	6.49	83	0.3	5.81	28.53	8956.0	22.5	0.5	0.56	3.0E-06	3.8E-06	5.2E-06	8.0E-06	3.2E-03	3.9E-03	0.0						
HV-8_3	4	4_1	16.01.17	Y	3	6.45	121	0.3	4.58	22.36	6842.3	11.7	11.5	0.22	3.0E-06	3.8E-06	8.8E-05	2.6E-04	5.8E-04	2.6E-03	0.5						
HML-4S_1	4	4_1	03.08.16	Y	50	6.53	103	0.3	7.60	22.94	748.6	4.8	60.4	0.13	1.9E-05	1.1E-04	6.8E-03	8.4E-03	4.3E-03	4.2E-04	1.1						
HML-4S_2	4	4_1	10.10.16	Y	1	6.45	68	0.3	16.32	57.58	2001.2	37.3	0.5	0.33	3.0E-06	4.5E-05	5.2E-06	8.0E-06	8.6E-03	6.3E-03	0.0						
HML-4S_3	4	4_1	16.01.17	Y	3	6.47	70	0.3	17.02	53.99	9405.5	9.1	0.5	0.14	3.0E-06	3.8E-06	5.2E-06	8.0E-06	2.8E-04	9.8E-03	0.0						
HV-53D	4	4_2	09.04.19	Y	30	6.54	195	0.3	13.9	10.7	2150.0	10.8	34.8	0.19	7.3E-05	3.4E-04	2.9E-03	9.7E-04	3.6E-03	9.3E-04	0.9						
V-5	5	5_1	22.01.19	Y	3	6.04	120	NA	NA	NA	2030.0	172	NA	3.9	7.1E-02	3.9E-02	1.1E-01	6.4E-03	5.0E-03	7.8E-04	2.7						
V-11	5	5_1	22.01.19	Y	3	6.754	98	0.3	0.5	0.2	479.0	30.5	43.2	0.419	2.1E-02	1.3E-02	3.0E-02	4.0E-04	1.8E-05	4.8E-04	2.8						
V-13	5	5_2	22.01.19	Y*	3	6.366	129.4	0.13	0.2	25.0	428.0	92.3	114	0.301	2.7E-03	1.5E-01	5.3E-02	8.0E-04	5.6E-03	4.0E-03	2.6						
SV-1	5	5_2	22.01.19	N	NA	6.44	262.2	0.17	0.3	1.1	1440.0	42	34.7	0.005	2.7E-01	7.7E-02	2.4E-02	4.1E-03	1.7E-03	2.0E-03	3.6						
HJ-4	6	6_1	29.01.19	N	NA	6.52	387	49.5	0.2	0.1	0.5	7.1	79.5	0.005	3.0E-05	9.1E-05	5.2E-05	8.0E-05	1.8E-05	1.7E-05	2.0						
V-32	6	6_1	29.01.19	N	NA	6.53	251	0.3	11.6	0.0	0.5	14.4	109	0.005	1.1E-04	4.2E-04	2.5E-04	8.0E-05	1.8E-05	1.7E-05	2.6						
MV-6A	7	7_1	20.02.19	Y	34	7.17	272	0.3	3.1	0.1	320.0	5.12	142.8	0.025	3.0E-06	3.8E-06	5.3E-02	1.4E-02	7.5E-04	1.3E-03	1.7						
B-Z-4	7	7_1	20.02.19	Y	34	6.86	239	0.3	3.3	0.5	468.0	6.41	56.7	0.025	3.8E-04	2.4E-03	9.6E-02	1.7E-02	8.5E-04	7.2E-04	1.9						
Zd-2	8	8_1	20.02.19	Y	26	6.71	166	0.3	0.6	21.4	14453.0	35.57	7.8	0.025	3.0E-06	3.8E-06	2.3E-01	2.6E-01	3.0E-01	3.0E-02	0.9						
Zd-4	8	8_1	20.02.19	Y	26	7	129	0.3	3.9	78.7	8889.0	1.29	2.7	0.247	3.0E-06	3.8E-06	3.0E-01	2.4E-01	1.8E-01	2.1E-03	1.2						
ZMS-4	9	9_1	21.02.19	Y	50	6.91	2	0.3	1.7	3.1	13819.0	6.33	5.7	0.025	2.1E-05	3.8E-06	5.6E-04	3.6E-03	4.4E-02	3.4E-02	0.1						
MR-4	9	9_1	21.02.19	Y	9	7.05	54	0.3	3.0	0.0	10445.0	6.4	25.5	0.025	3.4E-04	2.4E-05	1.1E-03	9.3E-04	1.3E-03	2.2E-03	0.8						
HLV-5	10	10_1	04.03.19	N	NA	6.35	334	61.4	15.7	68.8	8985.0	138.3	17.4	0.025	1.6E-03	6.9E-03	1.0E-03	7.0E-04	1.3E-03	3.8E-04	2.5						
HV-26	10	10_1	04.03.19	N	NA	6	414	317	1.8	0.0	3.3	5.01	71.6	0.025	1.1E-04	2.4E-03	5.2E-06	8.0E-06	3.6E-05	3.3E-05	3.0						
ID-2	11	11_1	05.03.19	N	NA	7.16	68	0.3	2.1	21.4	257.9	5.3	54.8	0.226	3.0E-06	3.8E-06	7.0E-05	1.0E-04	9.2E-05	8.5E-05	0.7						
HV-112	12	12_1	09.05.19	Y	2	6.04	28.7	0.3	1.7	44.2	5531.0	303	3.4	2.03	3.0E-06	7.8E-05	8.9E-04	2.9E-04	1.4E-04	3.3E-05	1.6						
HV-223	12	12_1	09.05.19	Y	2	5.6	29.8	0.3	9.6	86.6	4575.0	626	20.5	1.85	1.6E-04	3.8E-03	8.9E-03	1.8E-03	2.2E-02	2.6E-04	0.9						

Legend: * - affected by application of ZVI

****- determined based on criteria given in Table 1 of the article**

Table S3. Concentrations of volatile organic compounds and acetylene in groundwater

Sample Identification						Acetylene	Acetylene/Ethene ratio	trans-DCE	1,1-DCE	trans/ds DCE ratio	trichloromethane	1,2-dichloroethane	benzene	ethylbenzene	o+p+m xylene	toluene	chlorobenzene	dichloromethane	Σtetrachloroethane	1,1,2-Trichloroethane	Σ Co-contaminants	Σ Co-contaminants/ Σchloroethenes ratio
Sample ID	Site ID	Plume ID	Sampling Date DD.MM.YY	Affected by whey application Y/N	Time elapsed after the last whey application (months)	mM		mM	mM		mM	mM	mM	mM	mM	mM	mM	mM	mM	mM	mM	
AT-15	1	1_1	24.01.19	Y	1	ND	NA	4.7E-04	1.4E-03	0.12%	ND	ND	ND	2.0E-02	7.8E-02	2.6E-03	ND	ND	ND	ND	1.0E-01	**19%**
AT-19	1	1_1	01.05.19	N	NA	ND	NA	3.1E-04	2.3E-04	0.70%	ND	9.5E-05	4.0E-05	ND	ND	2.2E-05	ND	ND	ND	ND	1.6E-04	0.12%
AT-20	1	1_1	01.05.19	N	NA	ND	NA	2.7E-03	1.0E-03	0.81%	3.6E-04	4.5E-04	ND	3.4E-05	2.7E-04	5.5E-05	ND	1.7E-04	ND	ND	1.3E-03	0.21%
AT-21	1	1_1	01.05.19	N	NA	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV10	2	2_1	24.01.19	Y*	8	2.8E-04	**23%**	5.2E-05	6.1E-04	0.08%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VS-5	2	2_1	24.01.19	Y*	8	3.4E-03	**61%**	5.2E-05	1.3E-04	0.06%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A I.	3	3_1	04.02.19	N	NA	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	3.4E-04	ND	ND	ND	3.4E-04	**40%**
B IV.	3	3_1	04.02.19	N*	NA	1.0E-03	2.3%	ND	ND	NA	ND	ND	3.3E-02	ND	ND	1.5E-02		ND	ND	ND	4.8E-02	1.6%
SM-7D	3	3_2	04.02.19	Y	16	5.4E-04	0.10%	1.2E-03	1.4E-03	0.16%	ND	6.0E-05	1.5E-04	ND	3.4E-05		1.2E-05	ND	ND	ND	2.6E-04	0.03%
VS-7S_1	3	3_3	18.07.17	Y	16	1.3E-04	**33%**	ND	1.2E-04	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
VS-7S_2	3	3_3	13.10.17	N*	NA	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
VS-7S_3	3	3_3	12.02.18	Y	1	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
VS-7S_4	3	3_3	26.03.18	Y	4	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
VS-7S	3	3_3	04.02.19	Y	5	3.8E-04	1.3%	5.2E-04	2.0E-03	0.04%	1.6E-04	1.1E-04	5.2E-04	ND	1.5E-05	1.3E-03	9.2E-04	ND	ND	ND	3.1E-03	0.18%
Std_1	3	3_3	18.07.17	N	NA	ND	NA	2.2E-04	3.8E-04	0.17%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Std_2	3	3_3	13.10.17	Y	1	ND	NA	ND	1.8E-04	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Std_3	3	3_3	12.02.18	Y	4	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Std_4	3	3_3	26.03.18	Y	5	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
SM-8_1	3	3_3	18.07.17	N	NA	ND	NA	3.0E-04	1.7E-03	0.10%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
SM-8_2	3	3_3	13.10.17	Y	1	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
SM-8_3	3	3_3	12.02.18	Y	4	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
SM-8_4	3	3_3	26.03.18	Y	5	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
AP 2	4	4_1	05.02.19	Y	28	ND	NA	5.2E-06	1.5E-04	0.03%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HV-16	4	4_1	09.04.19	N	NA	ND	NA	ND	2.2E-05	NA	1.1E-05	2.4E-05	ND	ND	ND	ND	ND	ND	ND	ND	3.4E-05	0.61%
HV-25	4	4_1	09.04.19	Y	50	ND	NA	2.3E-05	5.1E-05	0.37%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HV-8_1	4	4_1	03.08.16	Y	50	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HV-8_2	4	4_1	10.10.16	Y	1	ND	NA	1.6E-05	ND	0.00%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HV-8_3	4	4_1	16.01.17	Y	3	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HML-4S_1	4	4_1	03.08.16	Y	50	ND	NA	1.5E-05	7.6E-05	0.22%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HML-4S_2	4	4_1	10.10.16	Y	1	ND	NA	2.5E-05	ND	0.00%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HML-4S_3	4	4_1	16.01.17	Y	3	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HV-53D	4	4_2	09.04.19	Y	30	ND	NA	2.8E-05	1.7E-05	0.96%	ND	1.3E-05	ND	ND	ND	ND	ND	ND	ND	ND	1.3E-05	0.30%
V-5	5	5_1	22.01.19	Y	3	ND	NA	1.6E-03	6.0E-04	1.39%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
V-11	5	5_1	22.01.19	Y	3	ND	NA	1.7E-04	1.5E-04	0.58%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
V-13	5	5_2	22.01.19	Y*	3	1.4E-03	**26%**	1.2E-03	1.2E-03	2.19%	ND	ND	ND	ND	ND	ND	ND	ND	1.7E-03	3.3E-03	5.0E-03	2.5%
SV-1	5	5_2	22.01.19	N	NA	ND	NA	1.7E-04	ND	0.71%	ND	ND	ND	ND	ND	ND	ND	ND	3.3E-03	5.5E-04	3.8E-03	1.0%
HJ-4	6	6_1	29.01.19	N	NA	ND	NA	ND	ND	NA	9.2E-04	2.0E-04	ND	ND	ND	ND	ND	ND	ND	ND	1.1E-03	**443%**
V-32	6	6_1	29.01.19	N	NA	ND	NA	ND	ND	NA	3.6E-02	4.4E-02	ND	ND	ND	ND	ND	1.8E-02	ND	ND	9.8E-02	**11335%**
MV-6A	7	7_1	20.02.19	Y	34	ND	NA	2.1E-04	9.8E-05	0.40%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
B-Z-4	7	7_1	20.02.19	Y	34	ND	NA	5.4E-04	2.2E-04	0.56%	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Zd-2	8	8_1	20.02.19	Y	26	ND	NA	7.7E-04	9.7E-05	0.34%	ND	ND	ND	ND	1.1E-05	7.4E-05	ND	ND	ND	ND	8.5E-05	0.02%
Zd-4	8	8_1	20.02.19	Y	26	ND	NA	3.4E-03	7.2E-05	1.10%	ND	ND	ND	ND	ND	3.3E-05	ND	ND	ND	ND	3.3E-05	0.01%
ZMS-4	9	9_1	21.02.19	Y	50	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	1.3E-05	ND	ND	ND	ND	1.3E-05	0.31%
MR-4	9	9_1	21.02.19	Y	9	ND	NA	2.0E-05	ND	1.84%	ND	ND	ND	ND	ND	3.4E-05	ND	ND	ND	ND	3.4E-05	1.4%
HLV-5	10	10_1	04.03.19	N	NA	ND	NA	ND	1.0E-05	0.00%	ND	ND	1.5E-05	ND	1.0E-05	ND	1.6E-05	ND	ND	ND	4.2E-05	0.41%
HV-26	10	10_1	04.03.19	N	NA	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
ID-2	11	11_1	05.03.19	N	NA	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
HV-112	12	12_1	09.05.19	Y	2	ND	NA	ND	ND	NA	ND	ND	ND	ND	ND	1.2E-01	ND	ND	ND	ND	1.2E-01	**9336%**
HV-223	12	12_1	09.05.19	Y	2	ND	NA	ND	ND	NA	ND	1.4E-05	ND	ND	ND	1.5E-02	ND	ND	ND	ND	1.5E-02	**103%**

Legend: *- affected by application of ZVI

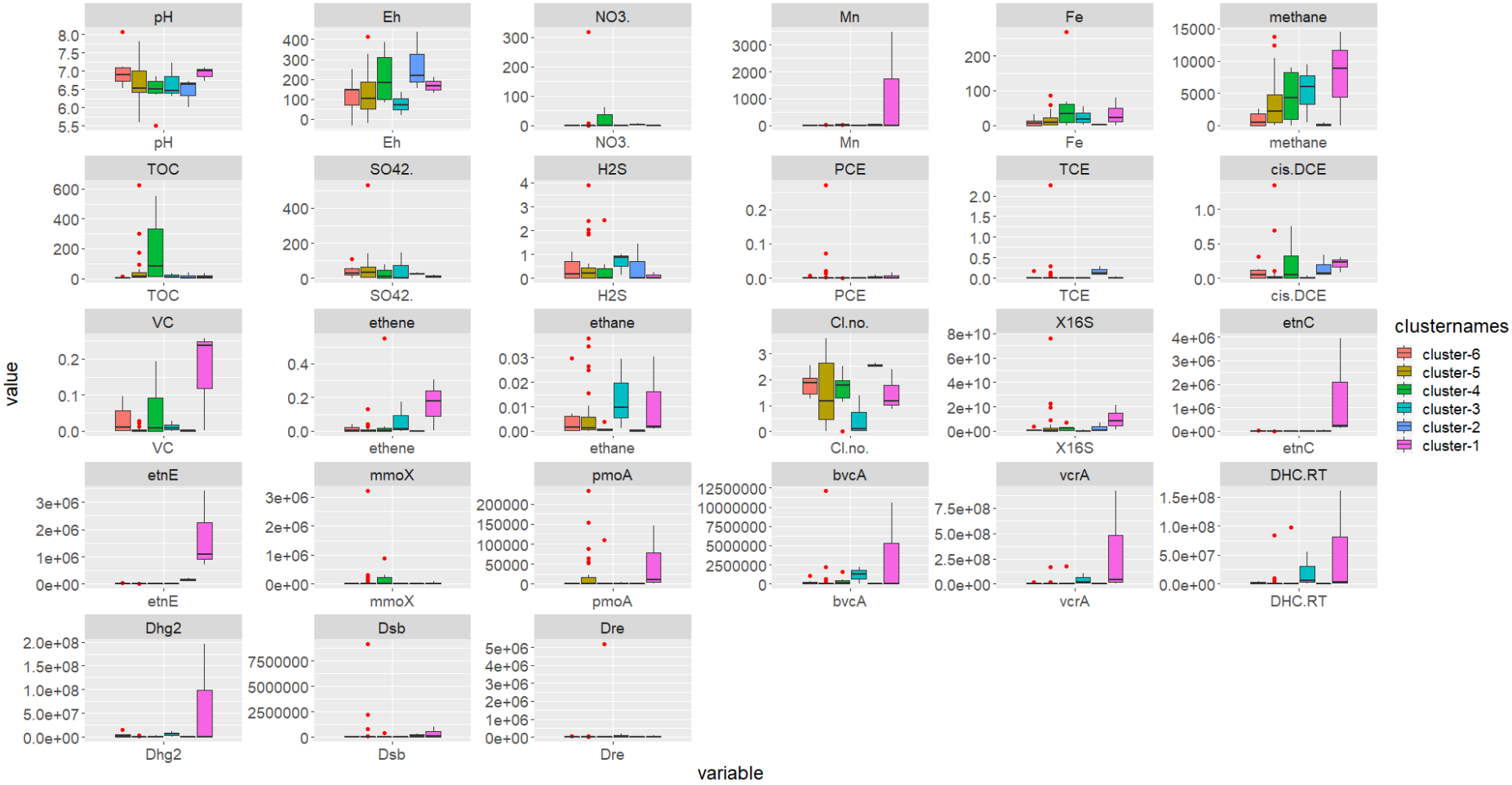

Figure S1. Graphs of hydrochemical and molecular biological data for each cluster of groundwater samples (cluster #1 represents samples with the highest abundance of *etnC* and *etnE* functional genes; cluster #6 represent samples with the lowest abundance of genes *etnC* and *etnE*)