

Table C.1  
Results of Natural Attenuation Study - On-Post Monitoring Wells Laboratory Analysis  
Camp Stanley Storage Activity

Method Analyte	CS-MW16-LGR 09/09/02 N 13par1					CS-D 09/09/02 N 13par2					CS-9 09/10/02 N 13par7					CS-10 09/10/02 N 13par5					
	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	
<i>VFAs 8015M (mg/L)</i>																					
Acetic Acid	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	
Butyric Acid	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	
Formic Acid	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	
Lactic Acid	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	
Propionic Acid	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	
Pyruvic Acid	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	
<i>DH (nM)</i>																					
Dissolved Hydrogen	59			1		1.8			1		1.8			1		2.7			1		
<i>PLFA</i>																					
Anaerobic Metal	0			1		0			1		1.4			1		0			1		
Environmental Stress	0			1		0			1		0.02			1		0			1		
Eukaryotes (% total)	0			1		0			1		9.3			1		0			1		
Genera (Nsats) (% total)	0			1		100			1		27.4			1		100			1		
Gram (monos) (% total)	0			1		0			1		50			1		0			1		
Gram+/Anaerobic Gram- (% total)	0			1		0			1		8.3			1		0			1		
Growth	0			1		0			1		0.34			1		0			1		
Srb/Actinomyc	0			1		0			1		3.6			1		0			1		
Total Biomass (Pmole/mL)	0			1		0.04			1		1			1		0.03			1		
<i>M2720C (ug/L)</i>																					
Methane	<b>0.22</b>	<b>F</b>	<b>0.074</b>		0.5	<b>0.25</b>	<b>F</b>	<b>0.074</b>		0.5	<b>0.23</b>	<b>F</b>	<b>0.074</b>		0.5	<b>0.3</b>	<b>F</b>	<b>0.074</b>		0.5	
Ethane	0	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	
Ethene	0	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5	
<i>SW9056 (mg/L)</i>																					
Chloride	<b>12</b>		<b>0.120</b>		1	<b>11</b>		<b>0.120</b>		1	<b>17</b>		<b>0.120</b>		1	<b>13</b>		<b>0.120</b>		1	
<i>Method SW9060</i>																					
DOC	5.4		0.290		1.	4.7		0.290		1.	3.8		0.290		1.	3.6		0.290		1.	

All samples were analyzed by Severn Trent Laboratories (STL) and Microbial Insights.

Abbreviations/Notes:

FD - Field Duplicate

SQL - Sample Quantitation Limits

N - Environmental Sample

DL - Dilution

RL - Reporting Limit

Data Qualifiers:

F- The analyte was positively identified but the associated numerical value is below the RL.

J - The analyte was positively identified, the quantitation is an estimation.

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M- Matrix Effect Present

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 Camp Stanley Storage Activity

Method Analyte	CS-11 09/10/02 N 13par8					CS-1 09/10/02 N 13par9					CS-MW1-LGR 09/10/02 N 13par3					CS-MW2-LGR 09/10/02 N 13par10				
	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL
<i>VFAs 8015M (mg/L)</i>																				
Acetic Acid	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1
Butyric Acid	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1
Formic Acid	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1
Lactic Acid	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1
Propionic Acid	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1
Pyruvic Acid	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4
<i>DH (nM)</i>																				
Dissolved Hydrogen	1.4			1		2.1			1		1.3			1		1.9			1	
<i>PLFA</i>																				
Anaerobic Metal	1.8			1		0			1		0			1		1.7			1	
Environmental Stress	0.1			1		0.34			1		0.02			1		0.09			1	
Eukaryotes (% total)	6.6			1		4.1			1		1.6			1		2.			1	
Genera (Nsats) (% total)	25.2			1		36.1			1		22.4			1		19.4			1	
Gram (monos) (% total)	45.3			1		56.7			1		66.6			1		68.6			1	
Gram+/Anaerobic Gram- (% total)	11.8			1		3.1			1		1.3			1		5.8			1	
Growth	0.54			1		0			1		0.28			1		0.1			1	
Srb/Actinomyc	9.4			1		0			1		8			1		2.7			1	
Total Biomass (Pmole/mL)	3			1		1			1		2			1		2			1	
<i>M2720C (ug/L)</i>																				
Methane	<b>6.3</b>		<b>0.074</b>		0.5	<b>1</b>		<b>0.074</b>		0.5	<b>0.23</b>	<b>F</b>	<b>0.074</b>		0.5	<b>9.2</b>		<b>0.074</b>		0.5
Ethane	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5
Ethene	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5
<i>SW9056 (mg/L)</i>																				
Chloride	<b>17</b>		<b>0.120</b>		1	<b>12</b>		<b>0.120</b>		1	<b>9</b>		<b>0.120</b>		1	<b>9.7</b>		<b>0.120</b>		1
<i>Method SW9060</i>																				
DOC	3.9		0.290		1.	1.5		0.290		1.	2.1		0.290		1.	2.5		0.290		1.

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Method Analyte	CS-2 09/10/02 N 13par4					CS-MW8-LGR 09/10/02 N 13par6					CS-MW5-LGR 09/11/02 N 13par11					CS-MW4-LGR 09/11/02 N 13par12				
	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL
<i>VFAs 8015M (mg/L)</i>																				
Acetic Acid	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1
Butyric Acid	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1
Formic Acid	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1
Lactic Acid	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1
Propionic Acid	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1
Pyruvic Acid	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4
<i>DH (nM)</i>																				
Dissolved Hydrogen	1.7			1		2.4			1		0.14			1		2			1	
<i>PLFA</i>																				
Anaerobic Metal	0			1		0			1		0			1		0			1	
Environmental Stress	0			1		0			1		0			1		0.05			1	
Eukaryotes (% total)	3.7			1		4.6			1		0			1		2			1	
Genera (Nsats) (% total)	37.2			1		40.9			1		100			1		29.5			1	
Gram (monos) (% total)	54.7			1		48.6			1		0			1		62.7			1	
Gram+/Anaerobic Gram- (% total)	0			1		0			1		0			1		5.8			1	
Growth	0			1		0			1		0			1		0.16			1	
Srb/Actinomyc	4.4			1		5.9			1		0			1		0			1	
Total Biomass (Pmole/mL)	1			1		0.2			1		0.03			1		1.			1	
<i>M2720C (ug/L)</i>																				
Methane	<b>0.32</b>	<b>F</b>	<b>0.074</b>		0.5	<b>0.28</b>	<b>F</b>	<b>0.074</b>		0.5										
Ethane	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5
Ethene	0.	U	0.083		0.5	0.25	F	0.083		0.5	0.	U	0.083		0.5	0.36	F	0.083		0.5
<i>SW9056 (mg/L)</i>																				
Chloride	26		0.120		1	11		0.120		1										
<i>Method SW9060</i>																				
DOC	3.		0.290		1.	1.5		0.290		1.	1.6		0.290		1.	4.5		0.290		1.

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Method Analyte	CS-MW3-LGR 09/11/02 N 13par13					CS-G 09/11/02 N 13par14					CS-MW9-LGR 09/11/02 N 13par15					CS-MW6-LGR 09/11/02 N 13par16				
	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL
<i>VFAs 8015M (mg/L)</i>																				
Acetic Acid	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1
Butyric Acid	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1
Formic Acid	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1
Lactic Acid	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1
Propionic Acid	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1
Pyruvic Acid	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4
<i>DH (nM)</i>																				
Dissolved Hydrogen	2.3			1		4.1			1		2.7			1		2.4			1	
<i>PLFA</i>																				
Anaerobic Metal	0			1		0			1		0			1		0			1	
Environmental Stress	0.01			1		0.04			1		0			1		0			1	
Eukaryotes (% total)	2.9			1		1.9			1		6.2			1		6.5			1	
Genera (Nsats) (% total)	31.9			1		14.9			1		40.6			1		17.9			1	
Gram (monos) (% total)	54			1		81.7			1		50.5			1		68.2			1	
Gram+/Anaerobic Gram- (% total)	4			1		1.6			1		2.8			1		6.2			1	
Growth	0			1		0			1		0.44			1		0			1	
Srb/Actinomyc	7.2			1		0			1		0			1		1.3			1	
Total Biomass (Pmole/mL)	0.4			1		2			1		0.2			1		0.2			1	
<i>M2720C (ug/L)</i>																				
Methane						<b>0.21</b>	<b>F</b>	<b>0.074</b>		0.5						<b>2.1</b>		<b>0.074</b>		0.5
Ethane	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5
Ethene	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5
<i>SW9056 (mg/L)</i>																				
Chloride						<b>13</b>		<b>0.120</b>		1						<b>12</b>		<b>0.120</b>		1
<i>Method SW9060</i>																				
DOC	2.1		0.290		1.	2.1		0.290		1.	3.7		0.290		1.	5.		0.290		1.

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Method Analyte	CS-MW19-LGR 09/12/02 N 13par19					CS-MW18-LGR 09/12/02 N 13par18					CS-MW17-LGR 09/12/02 N 13par17					CS-MW7-LGR 09/13/02 N 13par20					CS-MW10-LGR 09/13/02 N 13par21				
	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL	Result	Flag	SQL	DL	RL
<i>VFAs 8015M (mg/L)</i>																									
Acetic Acid	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1	1	U	0.080	1	1
Butyric Acid	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1	1	U	0.404	1	1
Formic Acid	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1	1	U	0.050	1	1
Lactic Acid	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1	1	U	0.060	1	1
Propionic Acid	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1	1	U	0.100	1	1
Pyruvic Acid	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4	4	U	0.250	1	4
<i>DH (nM)</i>																									
Dissolved Hydrogen	0.8			1		2			1		1.4			1		3			1		2.5			1	
<i>PLFA</i>																									
Anaerobic Metal	0			1		0			1		0			1		0			1		0			1	
Environmental Stress	0			1		0			1		0.02			1		0			1		0			1	
Eukaryotes (% total)	1.7			1		0			1		4			1		0			1		0			1	
Genera (Nsats) (% total)	24.3			1		44.2			1		27.8			1		55.1			1		45.4			1	
Gram (monos) (% total)	67.9			1		55.8			1		68.2			1		40.2			1		54.7			1	
Gram+/Anaerobic Gram- (% total)	6.1			1		0			1		0			1		2.3			1		0			1	
Growth	0			1		0			1		0			1		0			1		1.03			1	
Srb/Actinomyc	0			1		0			1		0			1		2.3			1		0			1	
Total Biomass (Pmole/mL)	1			1		0.1			1		1			1		0.3			1		0.1			1	
<i>M2720C (ug/L)</i>																									
Methane	<b>0.34</b>	<b>F</b>	<b>0.074</b>		0.5	<b>0.34</b>	<b>F</b>	<b>0.074</b>		0.5	<b>0.32</b>	<b>F</b>	<b>0.074</b>		0.5						<b>0.26</b>	<b>F</b>	<b>0.074</b>		0.5
Ethane	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5	0.	U	0.089		0.5
Ethene	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5	0.	U	0.083		0.5
<i>SW9056 (mg/L)</i>																									
Chloride	<b>14</b>		<b>0.120</b>		1	<b>11</b>		<b>0.120</b>		1	<b>15</b>		<b>0.120</b>		1						<b>9.2</b>		<b>0.120</b>		1
<i>Method SW9060</i>																									
DOC	6.2	M	0.290		1.	5.9		0.290		1.	6.2		0.290		1.	5.5		0.290		1.	6.2		0.290		1.

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