Table 1. TCE Concentrations in Grenada MFG Monitoring Wells Progress Toward Cleanup (Pre-2013)

TCE Trends observed in monitoring wells :			35	SEE locations for most wells on Grenada 2012 Annual Report PDF p.887/1223		
TCE Trends increasing in monitoring wells :			15	Almost 43% of wells have increasing TCE after decades of sampling. Degradation rates are less than the input rates where TCE is increasing. Degradation rate is slower as slope increases.		
Well Name	**TCE Trend**	**TCE @ MCL before 2048**	**TCE Trend Slope**	**Comment 1**	**Comment 2**	**Comment 3**
MW42	Decreasing	Yes?	-0.4340	Erratic Trend. See MW14.	DG from PRB so results dependent on PRB performance. Check results after 2012.	
MW12	Decreasing	Yes	-0.2410		Should be clean by 2015 based on trend to 2012.	Shallow well in MW09/12 pair
MW49	Decreasing	Yes	-0.2188	TCE trend is a bit erratic.	Inside the PRB so results dependent on PRB performance.	Deep well in MW49/50 pair inside PRB.
MW41	Decreasing	Yes?	-0.2001	Erratic Trend. See MW14.	DG from PRB so results dependent on PRB performance. Check results after 2012.	
MW11	Decreasing	Yes	-0.1804		Should be clean by 2015 based on trend to 2012.	
MW03	Decreasing	Yes	-0.1797	TCE cleanup to MCL around 2022		
MW01	Decreasing	Yes	-0.1711	TCE cleanup to MCL around 2036 from 7,700ug/L	This well is between Equalization Lagoon & WWTP, north of ball field. TCE trend deceasing fairly fast.	Apparent Half-Life = 4.2 years
MW25	Decreasing	No	-0.1607	TCE cleanup to MCL around 2063 from 360,000ug/L		Apparent Half-Life = 4.3 years
RT05	Decreasing	Yes	-0.1344	TCE cleanup to MCL around 2047 from 10,000ug/L		Apparent Half-Life = 4.5 years

Well Name	TCE Trend	TCE @ MCL before 2048	TCE Trend Slope	Comment 1	Comment 2	Comment 3
MW46	Decreasing	No	-0.1210	TCE cleanup to MCL around 2070 from 15,000ug/L.	Steady decrease from high concentration. Mean TCE concentration >8,000ug/L	Apparent Half-Life = 5.6 years
MW15	Decreasing	No	-0.1054	TCE cleanup to MCL around 2060 from 5,200ug/L		Apparent Half-Life = 6.2 years
RT02	Decreasing	No	-0.1044	TCE cleanup to MCL around 2083 from 63,000ug/L	Interesting RT02 & RT03 have almost identical degradation rates. Initial concentrations are so high cleanup is far in future despite reasonable degradation rate.	Apparent Half-Life = 6.6 years
RT03	Decreasing	No	-0.1043	TCE cleanup to MCL around 2086 from 130,000ug/L	Interesting RT02 & RT03 have almost identical degradation rates. Initial concentrations are so high cleanup is far in future despite reasonable degradation rate.	Apparent Half-Life = 6.3 years
MW16	Decreasing	No	-0.1026	TCE cleanup to MCL around 2065 from 7,100ug/L		Apparent Half-Life = 7.1 years
MW06	Decreasing	No	-0.0872	TCE cleanup to MCL around 2075 from 9,800ug/L.		Apparent Half-Life = 7.4 years
MW17	Decreasing	No	-0.0851	TCE cleanup to MCL around 2090 from 13,000ug/L		Apparent Half-Life = 8.1 years
MW08	Decreasing	Yes	-0.0798	TCE cleanup to MCL around 2047 from 420ug/L	Slow cleanup from low concentration (420ug/L). Slow rate may be due to downward TCE movement from MW11?	Apparent Half-Life = 8.8 years

Well Name	TCE Trend	TCE @ MCL before 2048	TCE Trend Slope	Comment 1	Comment 2	Comment 3
MW14	Decreasing	No	-0.0273	TCE cleanup to MCLs after 2100. Erratic trend! Very slow degradation rate.	DG from PRB should be clean 10 years after PRB installation but isn't clean. Trend is highly erratic and unlike other wells.	
MW04	Decreasing	No	-0.0055	TCE cleanup to MCLs after 2100. Very long TCE cleanup time far greater than 100 years	Slight decreasing trend more likely evidence of movement than degradation.	
MW05	Decreasing	No	-0.0015	TCE cleanup to MCLs after 2100. Very long TCE cleanup time far greater than 100 years	Slight decreasing trend more likely evidence of movement than degradation.	Deep Well in MW05/10 pair
MW07	Increasing	No	0.0085	Erratic trend from low concentration		
RT04	Increasing	No	0.0089			
MW23	Increasing	No	0.0175			
MW02	Increasing	No	0.0203			
RT01	Increasing	No	0.0278			
MW10	Increasing	No	0.0306			Shallow Well in MW05/10 pair
MW45	Increasing	No	0.0569		Mean TCE concentration >13,000ug/L with little variation since 2003.	
MW20	Increasing	No	0.0999		Eastern Heights subdivison boundary.	
MW52	Increasing	No	0.2208		Up gradient from PRB increasing dramatically since PRT installation	Deep well of MW51/52 pair.
MW54	Increasing	No	0.3357		Up gradient from PRB increasing dramatically since PRT installation	
MW13	Increasing	No	0.3984		North of Outfall Ditch. Increase due to northerly by-pass if PRB?	Only 5 samples
MW48	Increasing	No	0.5317	Shows serious failure of PRB in down gradient well.	DG from PRB so results dependent on PRB performance	Deep well of MW47/48 pair.

Well Name	TCE Trend	TCE @ MCL before 2048	TCE Trend Slope	Comment 1	Comment 2	Comment 3
MW53	Increasing	No	0.5898		Up gradient from PRB increasing dramatically since PRT installation	
MW51	Increasing	No	0.6821		Up gradient from PRB increasing dramatically since PRT installation	Shallow well of MW51/52 pair.
MW50	Increasing	No	0.7058	TCE concentrations increasing inside PRB.	Inside the PRB so results dependent on PRB performance.	Shallow well in MW49/50 pair inside PRB.
MW09	Stable Not Contaminated					Deep Well in MW09/12 pair
MW19				Never Sampled		
MW21				Insufficient Samples	Sampled only twice in 1993 with one MCL exceedance for TCE.	
MW22				Never Sampled		
MW24				Insufficient Samples	Sampled only twice in 1993 with two high MCL exceedances for TCE > 4,400 ug/L at AOC A Fuel Tank Containment Area.	
MW26				Never Sampled		
MW27				Never Sampled		
MW28				Never Sampled		
MW29				Never Sampled		
MW30				Never Sampled		
MW31				Never Sampled		
MW32				Never Sampled		
MW43	Stable Not Contaminated				Inside the PRB so results dependent on PRB performance. Typically this is not contaminated.	
MW44	Stable Not Contaminated				Inside the PRB so results dependent on PRB performance. Typically this is not contaminated.	

Well Name	TCE Trend	TCE @ MCL before 2048	TCE Trend Slope	Comment 1	Comment 2	Comment 3
MW47	Stable Not Contaminated				DG from PRB so results dependent on PRB performance	Shallow well of MW47/48 pair.
MW55				Insufficient Samples		
MW56				Insufficient Samples		
MW57				Insufficient Samples		
MW58				Insufficient Samples		
MW59				Insufficient Samples		
MW60				Insufficient Samples		
MW61				Insufficient Samples		
MW62				Insufficient Samples		
MW63				Insufficient Samples		