

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	Depth to Bottom (feet btoc)	Depth to Water (feet btoc)	Depth to Product (feet btoc)	Product Thickness (feet)	8015C		8260B			
						TPH-g (µg/l)	TPH-d (µg/l)	1,1,1-Trichloroethane (µg/l)	1,1,2-Trichloroethane (µg/l)	1,1-Dichloroethane (µg/l)	1,1-Dichloroethylene (µg/l)
DOH EAL Drinking Water Toxicity	-	-	-	-	-	100	100	200	5	2.4	7
DOH EAL Gross Contamination	-	-	-	-	-	190	100	970	50,000	50,000	1,500
OWDFMW01	8/4/2009	142.8	120	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	142.8	120	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	142.8	120	-	-	N.D.	1,490	N.D.	N.D.	N.D.	N.D.
	4/26/2010	142.8	120	-	-	N.D.	288	N.D.	N.D.	N.D.	N.D.
	10/21/2010	142.8	121.69	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010*	142.8	121.69	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	142.8	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	142.8	-	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	142.8	120	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011*	142.8	120	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	142.8	120	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011*	142.8	120	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	142.8	120.12	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011*	142.8	120.12	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	142.8	120.02	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012*	142.8	120.02	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	142.8	120.29	-	-	N.D.	220	N.D.	N.D.	N.D.	N.D.
7/19/2012	142.8	120.15	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	-	-	-	-	17	2,500	N.D.	N.D.	N.D.	N.D.	
11/7/2012*	-	-	-	-	N.D.	2,500	N.D.	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	1,575	210	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	1,575	210	-	-	N.D.	322	N.D.	N.D.	N.D.	N.D.
	4/26/2010	1,575	210	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	1,575	210	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	1,575	209.39	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	1,575	207.67	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	1,575	207.67	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	1,575	207.67	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	1,575	207.73	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	1,575	207.6	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	1,575	207.76	-	-	N.D.	160	N.D.	N.D.	N.D.	N.D.
7/19/2012	1,575	207.87	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	1,575	208.20	-	-	15	25	N.D.	N.D.	N.D.	N.D.	

* duplicate samples

Well Name	Date Sampled	Depth to Bottom (feet btoc)	Depth to Water (feet btoc)	Depth to Product (feet btoc)	Product Thickness (feet)	8015C		8260B			
						TPH-g (µg/l)	TPH-d (µg/l)	1,1,1-Trichloroethane (µg/l)	1,1,2-Trichloroethane (µg/l)	1,1-Dichloroethane (µg/l)	1,1-Dichloroethylene (µg/l)
DOH EAL Drinking Water Toxicity	-	-	-	-	-	100	100	200	5	2.4	7
DOH EAL Gross Contamination	-	-	-	-	-	190	100	970	50,000	50,000	1,500
RHMW04	8/4/2009	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	320	293	-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	8260B				8260B					
		1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropene (total of cis/trans)	1,4-Dichlorobenzene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	0.6	70	0.04	0.04	600	0.15	5	180	0.43	75
DOH EAL Gross Contamination	-	50,000	3,000	10	50,000	10	7,000	10	5	50,000	5
OWDFMW01	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

* duplicate samples

Well Name	Date Sampled	8260B				8260B					
		1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,3-Dichloropropene (total of cis/trans)	1,4-Dichlorobenzene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	0.6	70	0.04	0.04	600	0.15	5	180	0.43	75
DOH EAL Gross Contamination	-	50,000	3,000	10	50,000	10	7,000	10	5	50,000	5
RHMW04	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	8260B									
		Acetone (µg/l)	Benzene (µg/l)	Bromodichloromethane (µg/l)	Bromoform (µg/l)	Bromomethane (µg/l)	Carbon Tetrachloride (µg/l)	Chlorobenzene (µg/l)	Chloroethane (µg/l)	Chloroform (µg/l)	Chloromethane (µg/l)
DOH EAL Drinking Water Toxicity	-	22,000	5	0.12	80	8.7	5	100	21,000	70	1.8
DOH EAL Gross Contamination	-	20,000	170	50,000	510	50,000	520	50	16	2,400	50,000
OWDFMW01	8/4/2009	N.D.	0.47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	1.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	1.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	0.54	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	N.D.	0.69	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011*	N.D.	0.29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	0.7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012*	N.D.	0.58	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4/26/2012	2.8	0.71	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
7/19/2012	2.3	1.3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	0.38	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012*	N.D.	0.49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	1.4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	0.42	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	0.92	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4/26/2012	N.D.	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

* duplicate samples

Well Name	Date Sampled	8260B									
		Acetone (µg/l)	Benzene (µg/l)	Bromodichloromethane (µg/l)	Bromoform (µg/l)	Bromomethane (µg/l)	Carbon Tetrachloride (µg/l)	Chlorobenzene (µg/l)	Chloroethane (µg/l)	Chloroform (µg/l)	Chloromethane (µg/l)
DOH EAL Drinking Water Toxicity	-	22,000	5	0.12	80	8.7	5	100	21,000	70	1.8
DOH EAL Gross Contamination	-	20,000	170	50,000	510	50,000	520	50	16	2,400	50,000
RHMW04	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	8260B					8260B				
		cis-1,2-Dichloroethylene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Methyl ethyl ketone (2-Butanone)	Methyl isobutyl ketone (4-Methyl-2-Pentanone)	Methyl tert-butyl Ether	Methylene chloride	Napthalene	Styrene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	70	0.16	700	0.86	7,100	2,000	12	4.8	17	100
DOH EAL Gross Contamination	-	50,000	50,000	30	6	8,400	1,300	5	9,100	21	10
OWDFMW01	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7/19/2012	N.D.	N.D.	N.D.	N.D.	1	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

* duplicate samples

Well Name	Date Sampled	8260B					8260B				
		cis-1,2-Dichloroethylene	Dibromochloromethane	Ethylbenzene	Hexachlorobutadiene	Methyl ethyl ketone (2-Butanone)	Methyl isobutyl ketone (4-Methyl-2-Pentanone)	Methyl tert-butyl Ether	Methylene chloride	Napthalene	Styrene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	70	0.16	700	0.86	7,100	2,000	12	4.8	17	100
DOH EAL Gross Contamination	-	50,000	50,000	30	6	8,400	1,300	5	9,100	21	10
RHMW04	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	8260B								8270C	
		Tetrachloroethane, 1,1,1,2-	Tetrachloroethane, 1,1,2,2-	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes	Acenaphthene	Acenaphthylene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	0.52	0.067	5	1,000	100	5	2	10,000	370	240
DOH EAL Gross Contamination	-	50,000	500	170	40	260	310	3,400	20	20	2,000
OWDFMW01	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	0.21	N.D.	N.D.	0.39	N.D.	N.D.
	4/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

* duplicate samples

Well Name	Date Sampled	8260B								8270C	
		Tetrachloroethane, 1,1,1,2-	Tetrachloroethane, 1,1,2,2-	Tetrachloroethylene	Toluene	trans-1,2- Dichloroethylene	Trichloroethylene	Vinyl chloride	Xylenes	Acenaphthene	Acenaphthylene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	0.52	0.067	5	1,000	100	5	2	10,000	370	240
DOH EAL Gross Contamination	-	50,000	500	170	40	260	310	3,400	20	20	2,000
RHMW04	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	8270C						8270C			
		Anthracene	Benzo[a]anthracene	Benzo[g,h,i]perylene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	1,800	0.092	1,500	0.2	0.092	0.92	9.2	0.0092	1,500	240
DOH EAL Gross Contamination	-	22	4.7	0.13	0.81	0.75	0.4	1	0.52	130	950
OWDFMW01	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Well Name	Date Sampled	8270C						8270C			
		Anthracene	Benzo[a]anthracene	Benzo[g,h,i]perylene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
DOH EAL Drinking Water Toxicity	-	1,800	0.092	1,500	0.2	0.092	0.92	9.2	0.0092	1,500	240
DOH EAL Gross Contamination	-	22	4.7	0.13	0.81	0.75	0.4	1	0.52	130	950
RHMW04	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples

Cumulative Groundwater Measurements and Analytical Results for Outside-Tunnel Wells
Red Hill Bulk Fuel Storage Facility

Well Name	Date Sampled	8270C			6020			
		Ideno[1,2,3-cd]pyrene	1,-Methylnaphthalene	2,-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Lead
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
DOH EAL Drinking Water Toxicity	-	0.092	4.7	24	17	240	180	15
DOH EAL Gross Contamination	-	0.095	10	10	21	180	68	50,000
OWDFMW01	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.60
	10/21/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.57
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.27
	7/21/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.43
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.19
	10/26/2011*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2
	1/24/2012*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.11
4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	0.025	N.D.	N.D.	N.D.	
11/7/2012*	N.D.	N.D.	N.D.	0.035	N.D.	N.D.	N.D.	
HDMW2253-03	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/8/2010	N.D.	N.D.	N.D.	0.0596	N.D.	N.D.	N.D.
	10/21/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.56
	1/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	7/21/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.12
	10/26/2011	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.9
	1/24/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.19
	4/26/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.71
7/19/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
11/7/2012	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

* duplicate samples

Well Name	Date Sampled	8270C			6020			
		Ideno[1,2,3-cd]pyrene	1,-Methylnaphthalene	2,-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Lead
		(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
DOH EAL Drinking Water Toxicity	-	0.092	4.7	24	17	240	180	15
DOH EAL Gross Contamination	-	0.095	10	10	21	180	68	50,000
RHMW04	8/4/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	8/4/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	10/13/2009*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	4/26/2010*	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

* duplicate samples