US EPA ARCHIVE DOCUMENT

TABLE 2-1. SOUTHWEST QUAD DISSOLVED PHASE ANALYTICAL RESULTS SUMMARY (NOVEMBER 2008 TO DECEMBER 2011)
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-26R		11/25/08	0.003 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	0.0008 J	ND(0.01)	ND(0.0069)
		3/27/09	0.007	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		11/12/09	ND(0.0005)	ND(0.0008) J	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/11/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/21/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		5/18/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012) J
		12/02/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-35		11/19/08	0.13	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
	Dup	11/19/08	0.13	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		2/17/09	0.021	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/03/09	0.021	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
	Dup	4/03/09	0.021	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/28/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		5/27/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		6/29/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		7/21/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		8/11/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		9/14/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/12/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	Dup	10/12/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		11/17/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		12/11/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		1/12/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		2/23/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		3/29/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		4/21/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/04/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	Dup	5/04/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/15/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		7/14/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		8/25/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		9/28/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		10/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)

TABLE 2-1. SOUTHWEST QUAD DISSOLVED PHASE ANALYTICAL RESULTS SUMMARY (NOVEMBER 2008 TO DECEMBER 2011)
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-35		3/22/11	ND(0.00051)	ND(0.00051)	0.0012	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		5/11/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		8/23/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		11/15/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-37		11/18/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/02/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		10/20/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.003 JB	ND(0.0069)
		5/05/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0086 J	ND(0.0069)
		10/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		5/16/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		6/02/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
	Dup	6/02/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		11/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		12/08/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
	Dup	12/08/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/02/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		5/06/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0166J/ND(0.0166)U*	ND(0.0069)
		10/19/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		5/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		12/01/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	0.007 J
	Dup	12/01/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	0.0085
MW-115S		12/09/08	ND(0.0005)	ND(0.0008)	0.0008 J	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/03/09	0.009	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		10/12/09	0.0008 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0109 J	ND(0.0069)
		5/05/10	0.011	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0185 J	ND(0.0069)
		10/20/10	0.003 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0142 J	ND(0.0069)
		5/11/11	0.01	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	0.011 JB	ND(0.0012)
		11/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	0.0078	ND(0.0012)

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CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-120		11/18/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/01/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		10/07/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		3/29/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	Dup	3/29/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		4/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/05/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/14/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	Dup	6/14/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		7/13/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		8/24/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		9/29/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		10/19/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		3/22/11	ND(0.00051)	ND(0.00051)	0.0016	ND(0.00048)	0.0014	ND(0.00024)	ND(0.0012)
		5/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		8/22/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		11/14/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-131		11/21/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0155 J	0.0225
		2/18/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0144 J	ND(0.0069)
		4/02/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		7/23/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.01 J	ND(0.0069)
		10/20/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0266/ND(0.0266)U*	ND(0.0069)
		5/06/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0252 JB	ND(0.0069)
	Dup	5/06/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0174J/ND(0.0174)U*	ND(0.0069)
		10/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0147 J	ND(0.0069)
		5/16/11	0.0078	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		6/01/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	0.02 JB	ND(0.0012)
		11/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)

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Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-132		11/17/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		2/19/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		3/30/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		7/20/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	Dup	7/20/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/05/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/05/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	Dup	5/05/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/19/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		5/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		11/14/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-133		11/18/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		2/17/09	0.003 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/01/09	0.11	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/28/09	0.036	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		5/26/09	0.032	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		6/29/09	0.11	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		7/21/09	0.051	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		8/11/09	0.031	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		9/14/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/08/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		11/17/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		12/11/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		1/12/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		2/23/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		3/29/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		4/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/04/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/14/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		7/13/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	Dup	7/13/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		8/24/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		9/27/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)

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Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-133		10/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	Dup	10/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		3/22/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		5/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		8/22/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
	Dup	8/22/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		11/14/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-134		11/17/08	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		2/19/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		3/30/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		7/20/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/05/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/05/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0104 J	ND(0.0069)
		10/19/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		5/17/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
		11/15/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-138		3/31/09	0.005 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.01)	ND(0.0069)
		4/28/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		5/28/09	0.002 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		6/29/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		7/21/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		8/12/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		9/15/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		10/07/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		11/18/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		12/14/09	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		1/13/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
		2/23/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		3/30/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		4/21/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		5/04/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/14/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)

TABLE 2-1. SOUTHWEST QUAD DISSOLVED PHASE ANALYTICAL RESULTS SUMMARY (NOVEMBER 2008 TO DECEMBER 2011)
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-138	7/14/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	8/25/10	0.001 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	9/28/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	10/20/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	3/23/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
	5/18/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012) J
	8/23/11	0.0056	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	0.0076 JB	ND(0.0012)
	11/15/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
MW-139	3/31/09	0.15	ND(0.0008)	ND(0.0008)	0.005 J	0.005 J	0.0122 J	ND(0.0069)
	4/28/09	0.019	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
	4/28/09	0.098	ND(0.0008)	ND(0.0008)	0.003 J	0.003 J	--	--
	5/28/09	0.085	ND(0.0008)	ND(0.0008)	0.003 J	0.003 J	--	--
	6/30/09	0.11	ND(0.0008)	0.0009 J	0.005 J	0.004 J	0.0126 J	ND(0.0069)
	7/21/09	0.12	ND(0.0008)	0.001 J	0.006	0.005 J	0.0175 J	ND(0.0069)
	8/12/09	0.12	ND(0.0008)	ND(0.0008)	0.006	0.005 J	0.0164 J	ND(0.0069)
	9/15/09	0.048	ND(0.0008)	ND(0.0008)	0.002 J	0.0009 J	0.0097 J	ND(0.0069)
	10/07/09	0.017	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0131 J	ND(0.0069)
	11/18/09	0.002 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
	12/14/09	0.004 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
	1/13/10	0.0009 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	--	--
	2/24/10	ND(0.0005)	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0095 J	ND(0.0069)
	3/30/10	0.004 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	4/21/10	0.007	ND(0.0008)	0.001 J	ND(0.0007)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	5/04/10	0.009	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0117 J	ND(0.0069)
	6/14/10	0.002 J	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	7/14/10	0.026	ND(0.0008)	0.003 J	0.002 J	0.004 J	0.0104 J	ND(0.0069)
	8/25/10	0.05	ND(0.0008)	ND(0.0008)	0.003 J	0.003 J	0.0177 J	ND(0.0069)
	9/28/10	0.023	ND(0.0008)	ND(0.0008)	0.001 J	0.001 J	0.0242	ND(0.0069)
Dup	9/28/10	0.024	ND(0.0008)	ND(0.0008)	0.001 J	0.001 J	0.0241	ND(0.0069)
	10/20/10	0.009	ND(0.0008)	ND(0.0008)	ND(0.0007)	ND(0.0008)	0.0212	ND(0.0069)
	3/23/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
Dup	3/23/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	ND(0.0012)
	5/18/11	0.013	ND(0.00051)	0.0031	0.0017	0.0037	0.01 J	0.0085 J

TABLE 2-1. SOUTHWEST QUAD DISSOLVED PHASE ANALYTICAL RESULTS SUMMARY (NOVEMBER 2008 TO DECEMBER 2011)
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-139		8/23/11	0.039	ND(0.00051)	0.0019	0.0054	0.011	0.025 JB	ND(0.0012)
		11/15/11	0.0011	ND(0.00051)	ND(0.00068)	ND(0.00048)	0.001	0.011	ND(0.0012)
	Dup	11/15/11	0.0012	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	0.012	ND(0.0012)
MW-140		3/27/09	0.35	ND(0.002)	0.43	0.041	0.55	ND(0.01)	ND(0.0069)
		6/15/10	0.12	ND(0.0008)	0.013	0.004 J	0.033	ND(0.0098)	ND(0.0069)
		3/23/11	0.033	ND(0.00051)	0.016	0.0054	0.024	0.007	ND(0.0012) J
MW-141		4/01/09	0.51	ND(0.002)	0.06	0.013	0.039	ND(0.01)	ND(0.0069)
	Dup	4/01/09	0.52	ND(0.002)	0.062	0.013	0.042	ND(0.01)	ND(0.0069)
		7/23/09	0.4	ND(0.0008)	0.017	0.011	0.016	ND(0.0072)	ND(0.0069)
		10/13/09	0.29	ND(0.0008)	0.045	0.01	0.032	0.0131 J	ND(0.0069)
		2/24/10	0.19	ND(0.0008)	0.014	0.006	0.015	ND(0.0072)	ND(0.0069)
	Dup	2/24/10	0.18	ND(0.0008)	0.014	0.006	0.015	ND(0.0072)	ND(0.0069)
		5/05/10	0.14	ND(0.0008)	0.019	0.008	0.024	0.0094 J	ND(0.0069)
		8/26/10	0.13	ND(0.002)	0.009 J	0.005 J	0.008 J	ND(0.0098)	ND(0.0069)
		3/23/11	0.0071	ND(0.00051)	ND(0.00068)	ND(0.00048)	0.0018	ND(0.00024)	ND(0.0012)
		5/19/11	ND(0.00051)	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00024)	0.0072 J
		8/24/11	0.028	ND(0.00051)	0.006	0.0024	0.0013	0.01 JB	ND(0.0012)
		11/17/11	0.047	ND(0.00051)	0.014	0.004	0.0032	0.0099	ND(0.0012)
MW-142		3/31/09	0.13	ND(0.002)	0.39	0.028	0.35	0.0166 J	ND(0.0069)
		5/28/09	0.12	ND(0.0008)	0.53	0.025	0.31	--	--
		6/30/09	0.31	ND(0.0008)	0.023	0.014	0.056	0.0212	ND(0.0069)
		7/23/09	0.27	ND(0.0008)	0.045	0.015	0.061	0.0254	ND(0.0069)
		8/12/09	0.21	ND(0.002)	0.31	0.022	0.21	0.0172 J	ND(0.0069)
		9/15/09	0.15	ND(0.0008)	0.15	0.019	0.13	0.0219	ND(0.0069)
		10/13/09	0.11	ND(0.0008)	0.19	0.021	0.17	0.0211	ND(0.0069)
		11/18/09	0.043	ND(0.002)	0.052	0.011 JB	0.058	--	--
		12/14/09	0.035	ND(0.0008)	0.12	0.013	0.13	--	--
		1/13/10	0.084	ND(0.002)	0.023	0.006 J	0.027	--	--
	Dup	1/13/10	0.085	ND(0.002)	0.023	0.006 J	0.027	--	--
		2/24/10	0.09	ND(0.0008)	0.2	0.017	0.11	0.0211	ND(0.0069)
		3/30/10	0.066	ND(0.0008)	0.039	0.009	0.042	0.0194 J	ND(0.0069)

TABLE 2-1. SOUTHWEST QUAD DISSOLVED PHASE ANALYTICAL RESULTS SUMMARY (NOVEMBER 2008 TO DECEMBER 2011)
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Chlorobenzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-142		4/20/10	0.13	ND(0.0008)	0.061	0.014	0.073	0.0267	ND(0.0069)
	Dup	4/20/10	0.13	ND(0.0008)	0.061	0.013	0.074	0.0249	ND(0.0069)
		5/04/10	0.12	ND(0.002)	0.18	0.016	0.15	0.0203	ND(0.0069)
		6/15/10	0.16	ND(0.0008)	0.036	0.013	0.062	0.0192 J	ND(0.0069)
		7/13/10	0.16	ND(0.0008)	0.037	0.011	0.061	0.023	ND(0.0069)
		8/26/10	0.1	ND(0.002)	0.004 J	0.008 J	0.031	0.0211	ND(0.0069)
	Dup	8/26/10	0.1	ND(0.002)	0.004 J	0.008 J	0.031	0.0201	ND(0.0069)
		9/28/10	0.11	ND(0.0008)	0.024	0.012	0.047	0.0212	ND(0.0069)
		10/20/10	0.15	ND(0.0008)	0.072	0.014	0.07	0.0226	ND(0.0069)
	Dup	10/20/10	0.16	ND(0.0008)	0.074	0.015	0.073	0.0243	ND(0.0069)
		3/23/11	0.02	ND(0.00051)	0.052	0.0053	0.033	0.012	ND(0.0012)
		5/18/11	0.067	ND(0.00051)	0.11	0.0098	0.048	0.013	0.012 J
	Dup	5/18/11	0.067	ND(0.00051)	0.11	0.0098	0.047	0.014	0.012 J
		8/24/11	0.055	ND(0.00051)	0.076	0.0079	0.051	0.016 JB	ND(0.0012)
		11/17/11	0.068	ND(0.00051)	0.21	0.01	0.12	0.016	ND(0.0012)

Notes:

The method detection limit was used as the reporting limit.

-- - Not analyzed

Dup - Duplicate sample

J - Estimated concentration

JB - Estimated concentration due to detection of analyte within the method blank.

mg/L - milligram per liter

ND - Not detected at the indicated laboratory reporting limit or the method detection limit.

US EPA ARCHIVE DOCUMENT

TABLE 2-2. PERIMETER, INTERIOR, AND SUPPLEMENTAL WELL GROUNDWATER ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-26R	12/02/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-33	12/02/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-48S	12/02/11	ND(0.00051)	0.046 J	ND(0.00048)	0.044 J	ND(0.00051)	0.015	0.014
MW-48S Dup	12/02/11	ND(0.00051)	0.046 J	ND(0.00048)	0.044 J	ND(0.00051)	0.018	0.014
MW-85S	12/02/11	0.13	0.073	0.019	0.011	ND(0.00051)	0.019	0.014
MW-94S	12/01/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	0.007 J
MW-94S Dup	12/01/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	0.0085
MW-95S	12/01/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	0.0091
MW-100S	12/01/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-104S	12/05/11	ND(0.00051)	ND(0.00068) J	ND(0.00048)	ND(0.00073) J	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-115S	11/17/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	0.0078	ND(0.0012)

Notes:
The method detection limit was used as the reporting limit.
J - Estimated concentration
mg/L - milligram per liter
ND - Not detected at the indicated laboratory reporting limit or the method detection limit.

US EPA ARCHIVE DOCUMENT

TABLE 2-3. NESTED VAPOR MONITORING WELL FIELD SCREENING RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well Location and Depth (ft-bgs)	Date	Static Pressure/ Vacuum (in-H_2O)	Estimated Soil Gas Permeability (cm^2)	Probe Specific Capacity ($cm^3/s \cdot in\ H_2O$)	Total Organic Vapors (ppm)	Oxygen Concentration (%)	Carbon Dioxide Concentration (%)
VW-18 (5)	7/12/2011	-0.02	9.32E-10	-0.13	391	1.6	10.3
VW-18 (10)	7/12/2011	-0.80	3.81E-08	-5.00	387	3.0	9.8
VW-18 (15)	7/13/2011	-0.12	1.48E-07	-19.36	366	0.1	10.9
VW-18 (20)	7/13/2011	-0.45	1.15E-08	-1.52	362	0.4	10.7
VW-20 (5)	7/13/2011	-0.09	2.27E-07	-29.74	16.7	10.2	8.0
VW-20 (10)	7/13/2011	-0.16	1.13E-07	-14.86	4.5	2.5	10.3
VW-20 (15)	7/14/2011	-0.12	1.11E-07	-14.60	275	0.7	9.7
VW-20 (20)	7/13/2011	-0.32	5.56E-08	-7.29	279	0.8	10.8
VW-20 (25)	7/14/2011	-1.61	5.51E-08	-7.23	152	1.0	10.3
VW-20 (30)	7/13/2011	-0.01	8.14E-08	-10.66	239	0.4	11.5
VW-21 (5)	7/13/2011	-0.38	1.65E-10	-0.03	391	0.7	13.1
VW-21 (10)	7/13/2011	-4.34	1.04E-08	-1.37	352	0.7	12.2
VW-21 (15)	7/13/2011	-1.14	8.58E-08	-11.24	484	0.0	10.6
VW-21 (20)	7/13/2011	-0.99	7.65E-08	-10.02	357	4.0	8.0
VW-93(5)	7/11/2011	-0.03	1.82E-07	-23.79	1.5	18.7	2.2
VW-93(10)	7/11/2011	-0.23	1.67E-07	-21.91	0.7	19.6	0.9
VW-93(20)	7/11/2011	0.23	1.04E-07	-13.64	0.7	19.4	0.7
VW-93(30)	7/11/2011	0.01	9.92E-08	-13.00	0.8	19.0	1.4
VW-93(40)	7/11/2011	0.40	7.13E-08	-9.34	0.7	19.2	0.8
VW-93(50)	7/11/2011	-0.05	1.48E-07	-19.36	1.3	18.9	1.3
VW-93(60)	7/11/2011	0.04	5.11E-08	-6.70	2.0	15.7	2.0
VW-96A(5)	7/12/2011	-0.02	2.89E-07	-37.86	0.7	18.1	2.3
VW-96(10)	7/12/2011	0.01	1.35E-07	-17.71	0.5	18.5	1.6
	9/12/2011	-0.02	1.63E-07	-21.35	0.0	19.1	0.1
	10/26/2011	-0.03	1.99E-07	-26.02	0.7	19.4	0.9
VW-96(20)	7/12/2011	0.22	5.76E-08	-7.55	0.3	18.8	0.6
	9/12/2011	-0.08	5.93E-08	-7.77	0.0	--	--
	10/26/2011	0.00	5.98E-08	-7.84	1.0	18.9	1.1

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TABLE 2-3. NESTED VAPOR MONITORING WELL FIELD SCREENING RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well Location and Depth (ft-bgs)	Date	Static Pressure/ Vacuum (in-H_2O)	Estimated Soil Gas Permeability (cm^2)	Probe Specific Capacity ($cm^3/s \cdot in\ H_2O$)	Total Organic Vapors (ppm)	Oxygen Concentration (%)	Carbon Dioxide Concentration (%)
VW-96(30)	7/12/2011	-0.02	9.48E-08	-12.42	0.3	16.4	0.3
	9/12/2011	-0.27	9.07E-08	-11.88	0.0	20.1	0.1
	10/26/2011	0.12	7.38E-08	-9.67	0.7	19.1	1.0
VW-96(40)	7/12/2011	-0.09	7.47E-08	-9.78	0.7	14.6	0.8
	9/12/2011	-0.17	7.21E-08	-9.45	0.0	--	--
	10/26/2011	0.00	7.29E-08	-9.56	0.8	18.9	1.4
VW-96(50)	7/12/2011	0.03	7.13E-08	-9.34	0.5	11.6	2.1
VW-96(55)	7/12/2011	0.17	6.82E-08	-8.94	5.4	2.5	6.1
VW-99(10)	7/12/2011	0.41	1.27E-07	-16.65	2.6	18.2	0.1
	9/12/2011	-0.03	1.87E-07	-24.49	0.6	20.5	0.0
	10/26/2011	0.00	1.20E-07	-15.70	2.9	19.3	0.4
VW-99(20)	7/12/2011	0.03	1.41E-07	-18.50	2.1	17.6	0.1
	9/12/2011	0.01	1.55E-07	-20.30	0.4	20.6	0.0
	10/26/2011	0.00	1.38E-07	-18.10	0.6	18.8	0.8
VW-99(30)	7/12/2011	0.00	9.07E-08	-11.88	0.6	17.0	0.2
	9/12/2011	0.60	1.13E-07	-14.86	0.3	20.4	0.0
	10/26/2011	-0.02	8.47E-08	-11.09	1.4	18.9	1.0
VW-99(40)	7/12/2011	0.00	8.58E-08	-11.24	0.8	9.5	2.2
	9/12/2011	0.02	9.77E-08	-12.80	0.2	20.4	0.0
	10/26/2011	-0.02	8.25E-08	-10.80	0.7	18.5	1.7
VW-99(50)	7/12/2011	-0.02	7.38E-08	-9.67	0.6	2.2	6.6
VW-99(55)	7/12/2011	-0.02	5.76E-08	-7.55	45.2	1.1	7.8
VW-128(5)	7/11/2011	0.03	1.59E-07	-20.81	0.3	15.2	1.6
VW-128(10)	7/11/2011	0.04	1.92E-08	-2.52	0.4	17.8	0.7
VW-128(20)	7/11/2011	0.20	2.42E-08	-3.18	4.3	16.6	1.0
VW-128(30)	7/11/2011	0.02	1.13E-07	-14.86	0.5	16.1	2.2
VW-128(40)	7/11/2011	0.03	1.01E-07	-13.21	0.7	14.7	3.4
VW-128(50)	7/11/2011	0.01	8.47E-08	-11.09	1.7	12.6	5.1
VW-129(5)	7/13/2011	-0.16	2.19E-07	-28.71	0.3	16.8	2.8
VW-129(10)	7/13/2011	-0.08	5.11E-08	-6.70	0.1	17.2	2.3

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TABLE 2-3. NESTED VAPOR MONITORING WELL FIELD SCREENING RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well Location and Depth (ft-bgs)	Date	Static Pressure/ Vacuum (in-H_2O)	Estimated Soil Gas Permeability (cm^2)	Probe Specific Capacity (cm^3/s·in H_2O)	Total Organic Vapors (ppm)	Oxygen Concentration (%)	Carbon Dioxide Concentration (%)
VW-129(20)	7/13/2011	0.06	1.30E-07	-16.99	0.4	17.5	2.0
VW-129(30)	7/13/2011	-0.08	1.13E-07	-14.86	0.2	7.3	2.4
VW-129(40)	7/13/2011	-0.23	8.94E-08	-11.72	0.0	16.3	2.8
VW-129(50)	7/13/2011	-0.11	6.47E-08	-8.48	0.0	16.1	2.8

Notes:
cm^2 - square centimeters
cm^2/s - square centimeters per second
cm^3/s·in H2O - cubic centimeters per second per inch of water
ft-bgs - feet below ground surface
in-H_2O - inches of water
ppm - parts per million

TABLE 2-4A. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, PETROLEUM RELATED CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well	Date	Depth ft-bgs	Dilution Factor	n-Butylbenzene mg/m^3	sec-Butylbenzene mg/m^3	Isopropylbenzene mg/m^3	n-Propylbenzene mg/m^3	1,2-Dichloroethane mg/m^3	1,2-Dibromoethane mg/m^3	MTBE mg/m^3	Naphthalene mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	m,p-Xylene mg/m^3	o-Xylene mg/m^3	Cyclohexane mg/m^3	Hexane mg/m^3	Heptane mg/m^3	Styrene mg/m^3	2,2,4-Trimethylpentane mg/m^3	1,3,5-Trimethylbenzene mg/m^3	1,2,4-Trimethylbenzene mg/m^3	1,3-Butadiene mg/m^3	4-Ethyltoluene mg/m^3	Butane mg/m^3	Isopentane mg/m^3	Methyl cyclohexane mg/m^3	TVPH as gasoline mg/m^3
VW-93A	Jul 2011	5	2.66	ND(0.029)	ND(0.029)	ND(0.0065)	ND(0.0065)	ND(0.0054)	ND(0.010)	ND(0.0048)	ND(0.028)	ND(0.0042)	ND(0.0050)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0046)	ND(0.0047)	ND(0.0054)	ND(0.0057)	ND(0.0062)	ND(0.0065)	ND(0.0065)	ND(0.0029)	ND(0.0065)	ND(0.013)	ND(0.016)	ND(0.021)	ND(0.12)
VW-93	Jul 2011	10	2.40	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	ND(0.0092)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		20	2.33	ND(0.026)	ND(0.026)	ND(0.0057)	ND(0.0057)	ND(0.0047)	ND(0.009)	ND(0.0042)	ND(0.024)	ND(0.0037)	ND(0.0044)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0041)	ND(0.0048)	ND(0.0050)	ND(0.0054)	ND(0.0057)	ND(0.0057)	ND(0.0026)	ND(0.0057)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		30	2.39	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	ND(0.0092)	ND(0.0043)	ND(0.025)	ND(0.0038)	0.022	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	0.015	ND(0.019)	0.14
		40	2.46	ND(0.027)	ND(0.027)	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0094)	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0057)	ND(0.0060)	ND(0.0060)	ND(0.0027)	ND(0.0060)	ND(0.012)	ND(0.014)	ND(0.020)	ND(0.11)
		50	2.28	ND(0.025)	ND(0.025)	ND(0.0056)	ND(0.0056)	ND(0.0046)	ND(0.0088)	ND(0.0041)	ND(0.024)	ND(0.0036)	ND(0.0043)	ND(0.0049)	ND(0.0050)	ND(0.0050)	ND(0.0039)	ND(0.0040)	ND(0.0047)	ND(0.0048)	ND(0.0053)	ND(0.0056)	ND(0.0056)	ND(0.0025)	ND(0.0056)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.10)
		60	2.52	ND(0.028)	ND(0.028)	ND(0.0062)	ND(0.0062)	ND(0.0051)	ND(0.0097)	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0043)	ND(0.0044)	ND(0.0052)	ND(0.0054)	ND(0.0059)	ND(0.0062)	ND(0.0062)	ND(0.0028)	ND(0.0062)	ND(0.012)	ND(0.015)	ND(0.020)	ND(0.12)
VW-96A	Jul 2011	5	2.47	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0095)	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0042)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.014)	ND(0.020)	ND(0.11)
VW-96	Jul 2011	10	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		20	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		30	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	ND(0.0093)	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)	ND(0.11)
		40	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	0.014	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	0.12
		50	2.58	ND(0.028)	ND(0.028)	ND(0.0063)	ND(0.0063)	ND(0.0052)	ND(0.0099)	ND(0.0046)	ND(0.027)	ND(0.0041)	ND(0.0049)	ND(0.0056)	ND(0.0056)	ND(0.0056)	ND(0.0044)	ND(0.0045)	ND(0.0053)	ND(0.0055)	ND(0.0060)	0.012	ND(0.0063)	ND(0.0028)	ND(0.0063)	ND(0.012)	ND(0.015)	ND(0.021)	0.13
		55	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	0.040	ND(0.0052)	0.0072	ND(0.0052)	0.027	ND(0.0042)	ND(0.0049)	ND(0.0051)	0.073	0.031	0.046	ND(0.0026)	0.010	ND(0.011)	0.050	0.065	0.42
	Sep 2011	10	2.24	ND(0.024)	ND(0.024)	ND(0.0055)	ND(0.0055)	ND(0.0045)	ND(0.0086)	ND(0.0040)	ND(0.023)	ND(0.0036)	ND(0.0042)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0038)	ND(0.0039)	ND(0.0046)	ND(0.0048)	ND(0.0052)	ND(0.0055)	ND(0.0055)	ND(0.0025)	ND(0.0055)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.10)
		20	2.20	ND(0.024)	ND(0.024)	ND(0.0054)	ND(0.0054)	ND(0.0044)	ND(0.0084)	ND(0.0040)	ND(0.023)	ND(0.0035)	ND(0.0041)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.0038)	ND(0.0039)	ND(0.0045)	ND(0.0047)	ND(0.0051)	ND(0.0054)	ND(0.0054)	ND(0.0024)	ND(0.0054)	ND(0.010)	ND(0.013)	ND(0.018)	ND(0.10)
		30	2.02	ND(0.022)	ND(0.022)	ND(0.0050)	ND(0.0050)	ND(0.0041)	ND(0.0078)	ND(0.0036)	ND(0.021)	ND(0.0032)	ND(0.0038)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0035)	ND(0.0036)	ND(0.0041)	ND(0.0043)	ND(0.0047)	0.0051	ND(0.0050)	ND(0.0022)	ND(0.0050)	ND(0.0096)	ND(0.012)	ND(0.016)	0.10
		40	2.47	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0095)	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0042)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	0.0072	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.014)	ND(0.020)	0.12
	Oct 2011	10	1.44	ND(0.016)	ND(0.016)	ND(0.0035)	ND(0.0035)	ND(0.0029)	ND(0.0055)	ND(0.0026)	ND(0.015)	ND(0.0023)	ND(0.0027)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.0025)	ND(0.0025)	ND(0.0030)	ND(0.0031)	ND(0.0034)	ND(0.0035)	ND(0.0035)	ND(0.0016)	ND(0.0035)	ND(0.0068)	ND(0.0085)	ND(0.012)	ND(0.049)
		20	1.58	ND(0.017)	ND(0.017)	ND(0.0039)	ND(0.0039)	ND(0.0032)	ND(0.0061)	ND(0.0028)	ND(0.016)	0.0063	0.023	0.0046	0.028	0.011	ND(0.0027)	0.0062	0.0044	ND(0.0034)	0.011	0.0066	0.011	ND(0.0017)	0.0086	0.011	0.015	ND(0.013)	0.17
		30	1.44	ND(0.016)	ND(0.016)	ND(0.0035)	ND(0.0035)	ND(0.0029)	ND(0.0055)	ND(0.0026)	ND(0.015)	ND(0.0023)	ND(0.0027)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.0025)	ND(0.0025)	ND(0.0030)	ND(0.0031)	ND(0.0034)	0.0068	ND(0.0035)	ND(0.0016)	ND(0.0035)	ND(0.0068)	ND(0.0085)	ND(0.012)	0.05
		40	1.55	ND(0.017)	ND(0.017)	ND(0.0038)	ND(0.0038)	ND(0.0031)	ND(0.0060)	ND(0.0028)	ND(0.016)	ND(0.0025)	0.0038	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0027)	ND(0.0032)	ND(0.0033)	ND(0.0036)	0.0062	ND(0.0038)	ND(0.0017)	ND(0.0038)	ND(0.0074)	ND(0.0091)	ND(0.012)	0.06
VW-99	Jul 2011	10	2.28	ND(0.025)	ND(0.025)	ND(0.0056)	ND(0.0056)	ND(0.0046)	ND(0.0088)	ND(0.0041)	ND(0.024)	ND(0.0036)	ND(0.0043)	ND(0.0049)	ND(0.0050)	ND(0.0050)	ND(0.0039)	ND(0.0040)	ND(0.0047)	ND(0.0048)	ND(0.0053)	ND(0.0056)	ND(0.0056)	ND(0.0025)	ND(0.0056)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.10)
		20	2.68	ND(0.029)	ND(0.029)	ND(0.0066)	ND(0.0066)	ND(0.0054)	ND(0.010)	ND(0.0048)	ND(0.028)	ND(0.0043)	ND(0.0050)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0046)	ND(0.0047)	ND(0.0055)	ND(0.0057)	ND(0.0062)	ND(0.0066)	ND(0.0066)	ND(0.0030)	ND(0.0066)	ND(0.013)	ND(0.016)	ND(0.022)	ND(0.12)
		30	2.48	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0095)	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0043)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.015)	ND(0.020)	ND(0.11)
		30 DUP	2.50	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0096)	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0043)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0028)	ND(0.0061)	ND(0.012)	ND(0.015)	ND(0.020)	ND(0.11)
		40	2.31	ND(0.025)	ND(0.025)	ND(0.0057)	ND(0.0057)	ND(0.0047)	ND(0.0089)	ND(0.0042)	ND(0.024)	ND(0.0037)	0.0075	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0041)	ND(0.0047)	ND(0.0049)	ND(0.0054)	ND(0.0057)	ND(0.0057)	ND(0.0026)	ND(0.0057)	ND(0.011)	ND(0.014)	ND(0.018)	0.11
		50	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	ND(0.0093)	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)	ND(0.11)
		55	2.33	ND(0.26)	ND(0.26)	ND(0.057)	ND(0.057)	ND(0.047)	ND(0.090)	ND(0.042)	ND(0.24)	0.065	ND(0.044)	ND(0.050)	ND(0.050)	ND(0.050)	1.8	2.3	0.85	ND(0.050)	48	ND(0.057)	ND(0.057)	ND(0.026)	ND(0.057)	2.7	32	2.8	91
	Sep 2011	10	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		20	2.24	ND(0.024)	ND(0.024)	ND(0.0055)	ND(0.0055)	ND(0.0045)	ND(0.0086)	ND(0.0040)	ND(0.023)	ND(0.0036)	ND(0.0042)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0038)	ND(0.0039)	ND(0.0046)	ND(0.0048)	ND(0.0052)	ND(0.0055)	ND(0.0055)	ND(0.0025)	ND(0.0055)	ND(0.011)	ND(0.013)	ND(0.018)	ND(0.10)
		30	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	ND(0.0093)	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)	ND(0.11)
		30 DUP	2.58	ND(0.028)	ND(0.028)	ND(0.0063)	ND(0.0063)	ND(0.0052)	ND(0.0099)	ND(0.0046)	ND(0.027)	ND(0.0041)	ND(0.0049)	ND(0.0056)	ND(0.0056)	ND(0.0056)	ND(0.0044)	ND(0.0045)	ND(0.0053)	ND(0.0055)	ND(0.0060)	ND(0.0063)	ND(0.0063)	ND(0.0028)	ND(0.0063)	ND(0.012)	ND(0.015)	ND(0.021)	ND(0.12)
		40	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
	Oct 2011	10	1.58	ND(0.017)	ND(0.017)	ND(0.0039)	ND(0.0039)	ND(0.0032)	ND(0.0061)	ND(0.0028)	ND(0.016)	ND(0.0025)	ND(0.0030)	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0028)	ND(0.0032)	ND(0.0034)	ND(0.0037)	ND(0.0039)	ND(0.0039)	ND(0.0017)	ND(0.0039)	ND(0.0075)	ND(0.0093)	ND(0.013)	ND(0.053)
		20	1.52	ND(0.017)	ND(0.017)	ND(0.0037)	ND(0.0037)	ND(0.0031)	ND(0.0058)	ND(0.0027)	ND(0.016)	ND(0.0024)	ND(0.0029)	ND(0.0033)	ND(0.0033)	ND(0.0033)	ND(0.0026)	ND(0.0027)	ND(0.0031)	ND(0.0032)	ND(0.0036)	ND(0.0037)	ND(0.0037)	ND(0.0017)	ND(0.0037)	ND(0.0072)	ND(0.009)	ND(0.012)	ND(0.051)
		30	1.58	ND(0.017)	ND(0.017)	ND(0.0039)	ND(0.0039)	ND(0.0032)	ND(0.0061)	ND(0.0028)	ND(0.016)	ND(0.0025)	ND(0.0030)	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0028)	ND(0.0032)	ND(0.0034)	ND(0.0037)	ND(0.0039)	ND(0.0039)	ND(0.0017)	ND(0.0039)	ND(0.0075)	ND(0.0093)	ND(0.013)	ND(0.053)
		30 DUP	1.55	ND(0.017)	ND(0.017)	ND(0.0038)	ND(0.0038)	ND(0.0031)	ND(0.0060)	ND(0.0028)	ND(0.016)	ND(0.0025)	ND(0.0029)	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0027)	ND(0.0032)	ND(0.0033)	ND(0.0036)	ND(0.0038)	ND(0.0038)	ND(0.0017)	ND(0.0038)	ND(0.0074)	ND(0.0091)	ND(0.012)	ND(0.052)
		40	1.52	ND(0.017)	ND(0.017)	ND(0.0037)	ND(0.0037)	ND(0.0031)	ND(0.0058)	ND(0.0027)	ND(0.016)	ND(0.0024)	ND(0.0029)	ND(0.0033)	ND(0.0033)	ND(0.0033)	ND(0.0026)	ND(0.0027)	ND(0.0031)	ND(0.0032)	ND(0.0036)	ND(0.0037)	ND(0.0037)	ND(0.0017)	ND(0.0037)	ND(0.0072)	ND(0.009)	ND(0.012)	ND(0.051)

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TABLE 2-4A. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, PETROLEUM RELATED CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well	Date	Depth ft-bgs	Dilution Factor	n-Butylbenzene mg/m^3	sec-Butylbenzene mg/m^3	Isopropylbenzene mg/m^3	n-Propylbenzene mg/m^3	1,2-Dichloroethane mg/m^3	1,2-Dibromoethane mg/m^3	MTBE mg/m^3	Naphthalene mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	m,p-Xylene mg/m^3	o-Xylene mg/m^3	Cyclohexane mg/m^3	Hexane mg/m^3	Heptane mg/m^3	Styrene mg/m^3	2,2,4-Trimethylpentane mg/m^3	1,3,5-Trimethylbenzene mg/m^3	1,2,4-Trimethylbenzene mg/m^3	1,3-Butadiene mg/m^3	4-Ethyltoluene mg/m^3	Butane mg/m^3	Isopentane mg/m^3	Methyl cyclohexane mg/m^3	TVPH as gasoline mg/m^3
VW-128	Jul 2011	5	2.48	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0095)	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0043)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.015)	ND(0.020)	ND(0.11)
		10	2.26	ND(0.025)	ND(0.025)	ND(0.0056)	ND(0.0056)	ND(0.0046)	ND(0.0087)	ND(0.0041)	ND(0.024)	0.0040	0.0064	ND(0.0049)	0.0096	ND(0.0049)	ND(0.0039)	0.0048	0.0097	ND(0.0048)	ND(0.0053)	ND(0.0056)	ND(0.0056)	ND(0.0025)	0.0069	0.012	ND(0.013)	ND(0.018)	0.14
		20	2.46	ND(0.027)	ND(0.027)	ND(0.0060)	ND(0.0060)	ND(0.0050)	ND(0.0094)	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0057)	ND(0.0060)	ND(0.0060)	ND(0.0027)	ND(0.0060)	ND(0.012)	ND(0.014)	ND(0.020)	ND(0.11)
		30	2.40	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	ND(0.0092)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		40	2.73	ND(0.030)	ND(0.030)	ND(0.0067)	ND(0.0067)	ND(0.0055)	ND(0.010)	ND(0.0049)	ND(0.029)	ND(0.0044)	ND(0.0051)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0047)	ND(0.0048)	ND(0.0056)	ND(0.0058)	ND(0.0064)	ND(0.0067)	ND(0.0067)	ND(0.0030)	ND(0.0067)	ND(0.013)	ND(0.016)	ND(0.022)	ND(0.13)
		50	2.44	ND(0.027)	ND(0.027)	ND(0.0060)	ND(0.0060)	ND(0.0049)	ND(0.0094)	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0057)	ND(0.0060)	ND(0.0060)	ND(0.0027)	ND(0.0060)	ND(0.012)	ND(0.014)	ND(0.020)	ND(0.11)
		50 DUP	2.39	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	ND(0.0092)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
VW-129	Jul 2011	5	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		10	2.47	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0095)	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0042)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.014)	ND(0.020)	ND(0.11)
		20	2.33	ND(0.026)	ND(0.026)	ND(0.0057)	ND(0.0057)	ND(0.0047)	ND(0.009)	ND(0.0042)	ND(0.024)	ND(0.0037)	ND(0.0044)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0041)	ND(0.0048)	ND(0.0050)	ND(0.0054)	ND(0.0057)	ND(0.0057)	ND(0.0026)	ND(0.0057)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)
		30	2.58	ND(0.028)	ND(0.028)	ND(0.0063)	ND(0.0063)	ND(0.0052)	ND(0.0099)	ND(0.0046)	ND(0.027)	ND(0.0041)	ND(0.0049)	ND(0.0056)	ND(0.0056)	ND(0.0056)	ND(0.0044)	ND(0.0045)	ND(0.0053)	ND(0.0055)	ND(0.0060)	ND(0.0063)	ND(0.0063)	ND(0.0028)	ND(0.0063)	ND(0.012)	ND(0.015)	ND(0.021)	ND(0.12)
		30 DUP	2.66	ND(0.029)	ND(0.029)	ND(0.0065)	ND(0.0065)	ND(0.0054)	ND(0.010)	ND(0.0048)	ND(0.028)	ND(0.0042)	ND(0.0050)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0046)	ND(0.0047)	ND(0.0054)	ND(0.0057)	ND(0.0062)	ND(0.0065)	ND(0.0065)	ND(0.0029)	ND(0.0065)	ND(0.013)	ND(0.016)	ND(0.021)	ND(0.12)
		40	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	ND(0.0093)	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)	ND(0.11)
		50	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	ND(0.0091)	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)	ND(0.11)

Notes:

Dup - Blind Duplicate Sample

J - Estimated concentration

mg/m^3 - milligram per cubic meter

ND - Not detected

UJ - estimated concentration below detection limit

US EPA ARCHIVE DOCUMENT

TABLE 2-4B. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, SOLVENT RELATED CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well	Date	Depth ft-bgs	Dilution Factor	Acetone mg/m^3	2-Butanone mg/m^3	Carbon tetrachloride mg/m^3	Chloro-benzene mg/m^3	1,1-Dichloro-ethane mg/m^3	1,1-Dichloro-ethene mg/m^3	cis-1,2-Dichloro-ethene mg/m^3	trans-1,2-Dichloro-ethene mg/m^3	1,4-Dioxane mg/m^3	Hexachloro-butadiene mg/m^3	2-Hexanone mg/m^3	Isopropanol mg/m^3	4-Methyl-2-Pentanone mg/m^3	Methylene Chloride mg/m^3	1,1,2,2-Tetrachloro-ethane mg/m^3	Tetrachloro-ethene mg/m^3	Tetrahydro-furan mg/m^3	1,1,1-Trichloro-ethane mg/m^3	1,1,2-Trichloro-ethane mg/m^3	Trichloro-ethene mg/m^3	Vinyl Chloride mg/m^3
VW-93A	Jul 2011	5	2.66	0.018	ND(0.016)	ND(0.0084)	ND(0.0061)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.019)	ND(0.057)	ND(0.022)	ND(0.013)	ND(0.0054)	ND(0.0046)	ND(0.0091)	ND(0.009)	ND(0.0039)	ND(0.0072)	ND(0.0072)	ND(0.0071)	ND(0.0034)
VW-93	Jul 2011	10	2.40	ND(0.011)	ND(0.014)	ND(0.0076)	ND(0.0055)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.017)	ND(0.051)	ND(0.020)	ND(0.012)	ND(0.0049)	ND(0.0042)	ND(0.0082)	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0031)
		20	2.33	0.013	ND(0.014)	ND(0.0073)	ND(0.0054)	ND(0.0047)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.017)	ND(0.050)	ND(0.019)	ND(0.011)	ND(0.0048)	ND(0.0040)	ND(0.0080)	ND(0.0079)	ND(0.0034)	ND(0.0064)	ND(0.0064)	ND(0.0063)	ND(0.0030)
		30	2.39	0.035	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.020)	ND(0.012)	ND(0.0049)	ND(0.0042)	ND(0.0082)	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
		40	2.46	0.024	ND(0.014)	ND(0.0077)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.052)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0043)	ND(0.0084)	ND(0.0083)	ND(0.0036)	ND(0.0067)	ND(0.0067)	ND(0.0066)	ND(0.0031)
		50	2.28	0.018	ND(0.013)	ND(0.0072)	ND(0.0052)	ND(0.0046)	ND(0.0045)	ND(0.0045)	ND(0.0045)	ND(0.016)	ND(0.049)	ND(0.019)	ND(0.011)	ND(0.0047)	ND(0.0040)	ND(0.0078)	ND(0.0077)	ND(0.0034)	ND(0.0062)	ND(0.0062)	ND(0.0061)	ND(0.0029)
		60	2.52	0.020	ND(0.015)	ND(0.0079)	ND(0.0058)	ND(0.0051)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.018)	ND(0.054)	ND(0.021)	ND(0.012)	ND(0.0052)	ND(0.0044)	ND(0.0086)	ND(0.0085)	ND(0.0037)	ND(0.0069)	ND(0.0069)	ND(0.0068)	ND(0.0032)
VW-96A	Jul 2011	5	2.47	0.029	ND(0.014)	ND(0.0078)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.053)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0043) UJ	ND(0.0085) UJ	ND(0.0084)	ND(0.0036)	ND(0.0067)	ND(0.0067)	ND(0.0066)	ND(0.0032)
VW-96	Jul 2011	10	2.38	0.022	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041) UJ	ND(0.0082) UJ	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
		20	2.38	0.016	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041) UJ	ND(0.0082) UJ	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
		30	2.42	0.022	ND(0.014)	ND(0.0076)	ND(0.0056)	ND(0.0049)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.017)	ND(0.052)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0042) UJ	ND(0.0083) UJ	ND(0.0082)	ND(0.0036)	ND(0.0066)	ND(0.0066)	ND(0.0065)	ND(0.0031)
		40	2.38	0.014	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041) UJ	ND(0.0082) UJ	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
		50	2.58	0.013	ND(0.015)	ND(0.0081)	ND(0.0059)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.0051)	ND(0.018)	ND(0.055)	ND(0.021)	ND(0.013)	ND(0.0053)	ND(0.0045) UJ	ND(0.0088) UJ	ND(0.0088)	ND(0.0038)	ND(0.0070)	ND(0.0070)	ND(0.0069)	ND(0.0033)
		55	2.38	0.017	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041) UJ	ND(0.0082) UJ	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
	Sep 2011	10	2.24	0.011	ND(0.013)	ND(0.0070)	ND(0.0052)	ND(0.0045)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.016)	ND(0.048)	ND(0.018)	ND(0.011)	ND(0.0046)	ND(0.0039)	ND(0.0077)	ND(0.0076)	ND(0.0033)	ND(0.0061)	ND(0.0061)	ND(0.0060)	ND(0.0029)
		20	2.20	0.024	ND(0.013)	ND(0.0069)	ND(0.0051)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.016)	ND(0.047)	ND(0.018)	ND(0.011)	ND(0.0045)	ND(0.0038)	ND(0.0076)	ND(0.0075)	ND(0.0032)	ND(0.0060)	ND(0.0060)	ND(0.0059)	ND(0.0028)
		30	2.02	0.094	ND(0.012)	ND(0.0064)	ND(0.0046)	ND(0.0041)	ND(0.0040)	ND(0.0040)	ND(0.0040)	ND(0.014)	ND(0.043)	ND(0.016)	ND(0.0099)	ND(0.0041)	ND(0.0035)	ND(0.0069)	ND(0.0068)	ND(0.0030)	ND(0.0055)	ND(0.0055)	ND(0.0054)	ND(0.0026)
		40	2.47	0.024	ND(0.014)	ND(0.0078)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.053)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0043)	ND(0.0085)	ND(0.0084)	ND(0.0036)	ND(0.0067)	ND(0.0067)	ND(0.0066)	ND(0.0032)
	Oct 2011	10	1.44	0.019	ND(0.0085)	ND(0.0045)	ND(0.0033)	ND(0.0029)	ND(0.0028)	ND(0.0028)	ND(0.0028)	ND(0.010)	ND(0.031)	ND(0.012)	ND(0.0071)	ND(0.0029)	ND(0.0025)	ND(0.0049)	ND(0.0049)	ND(0.0021)	ND(0.0039)	ND(0.0039)	ND(0.0039)	ND(0.0018)
		20	1.58	0.028	ND(0.0093)	ND(0.0050)	ND(0.0036)	ND(0.0032)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.011)	ND(0.034)	ND(0.013)	ND(0.0078)	ND(0.0032)	ND(0.0027)	ND(0.0054)	ND(0.0054)	ND(0.0023)	ND(0.0043)	ND(0.0043)	ND(0.0042)	ND(0.0020)
		30	1.44	0.017	ND(0.0085)	ND(0.0045)	ND(0.0033)	ND(0.0029)	ND(0.0028)	ND(0.0028)	ND(0.0028)	ND(0.010)	ND(0.031)	ND(0.012)	ND(0.0071)	ND(0.0029)	ND(0.0025)	ND(0.0049)	ND(0.0049)	ND(0.0021)	ND(0.0039)	ND(0.0039)	ND(0.0039)	ND(0.0018)
		40	1.55	0.018	ND(0.0091)	ND(0.0049)	ND(0.0036)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.011)	ND(0.033)	ND(0.013)	ND(0.0076)	ND(0.0032)	ND(0.0027)	ND(0.0053)	ND(0.0052)	ND(0.0023)	ND(0.0042)	ND(0.0042)	ND(0.0042)	ND(0.0020)
VW-99	Jul 2011	10	2.28	0.018	ND(0.013)	ND(0.0072)	ND(0.0052)	ND(0.0046)	ND(0.0045)	ND(0.0045)	ND(0.0045)	ND(0.016)	ND(0.049)	ND(0.019)	ND(0.011)	ND(0.0047)	ND(0.0040)	ND(0.0078)	ND(0.0077)	ND(0.0034)	ND(0.0062)	ND(0.0062)	ND(0.0061)	ND(0.0029)
		20	2.68	0.040	ND(0.016)	ND(0.0084)	ND(0.0062)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.019)	ND(0.057)	ND(0.022)	ND(0.013)	ND(0.0055)	ND(0.0046)	ND(0.0092)	ND(0.0091)	ND(0.0040)	ND(0.0073)	ND(0.0073)	ND(0.0072)	ND(0.0034)
		30	2.48	0.023	ND(0.015)	ND(0.0078)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.053)	ND(0.020)	ND(0.012)	ND(0.0051)	ND(0.0043)	ND(0.0085)	0.0099	ND(0.0036)	ND(0.0068)	ND(0.0068)	ND(0.0067)	ND(0.0032)
		30 DUP	2.50	0.021	ND(0.015)	ND(0.0079)	ND(0.0058)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.018)	ND(0.053)	ND(0.020)	ND(0.012)	ND(0.0051)	ND(0.0043)	ND(0.0086)	0.0096	ND(0.0037)	ND(0.0068)	ND(0.0068)	ND(0.0067)	ND(0.0032)
		40	2.31	0.017	ND(0.014)	ND(0.0073)	ND(0.0053)	ND(0.0047)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.017)	ND(0.049)	ND(0.019)	ND(0.011)	ND(0.0047)	ND(0.0040)	ND(0.0079)	0.021	ND(0.0034)	ND(0.0063)	ND(0.0063)	ND(0.0062)	ND(0.0030)
		50	2.42	0.047	ND(0.014)	ND(0.0076)	ND(0.0056)	ND(0.0049)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.017)	ND(0.052)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0042)	ND(0.0083)	0.034	ND(0.0036)	ND(0.0066)	ND(0.0066)	ND(0.0065)	ND(0.0031)
		55	2.33	ND(0.11)	ND(0.14)	ND(0.073)	ND(0.054)	ND(0.047)	ND(0.046)	ND(0.046)	ND(0.046)	ND(0.17)	ND(0.50) UJ	ND(0.19)	ND(0.11)	ND(0.048)	ND(0.040)	ND(0.080) UJ	ND(0.079)	ND(0.034)	ND(0.064)	ND(0.064)	ND(0.063)	ND(0.030)
	Sep 2011	10	2.38	0.018	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041)	ND(0.0082)	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
		20	2.24	0.036	ND(0.013)	ND(0.0070)	ND(0.0052)	ND(0.0045)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.016)	ND(0.048)	ND(0.018)	ND(0.011)	ND(0.0046)	ND(0.0039)	ND(0.0077)	0.024	ND(0.0033)	ND(0.0061)	ND(0.0061)	ND(0.0060)	ND(0.0029)
		30	2.42	0.014 J	ND(0.014)	ND(0.0076)	ND(0.0056)	ND(0.0049)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.017)	ND(0.052)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0042)	ND(0.0083)	0.010	ND(0.0036)	ND(0.0066)	ND(0.0066)	ND(0.0065)	ND(0.0031)
		30 DUP	2.58	0.025 J	ND(0.015)	ND(0.0081)	ND(0.0059)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.0051)	ND(0.018)	ND(0.055)	ND(0.021)	ND(0.013)	ND(0.0053)	ND(0.0045)	ND(0.0088)	0.012	ND(0.0038)	ND(0.0070)	ND(0.0070)	ND(0.0069)	ND(0.0033)
		40	2.38	0.061	0.016	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041)	ND(0.0082)	0.034	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
	Oct 2011	10	1.58	0.013	ND(0.0093)	ND(0.0050)	ND(0.0036)	ND(0.0032)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.011)	ND(0.034)	ND(0.013)	ND(0.0078)	ND(0.0032)	ND(0.0027)	ND(0.0054)	ND(0.0054)	ND(0.0023)	ND(0.0043)	ND(0.0043)	ND(0.0042)	ND(0.0020)
		20	1.52	0.014	ND(0.009)	ND(0.0048)	ND(0.0035)	ND(0.0031)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.011)	ND(0.032)	ND(0.012)	ND(0.0075)	ND(0.0031)	ND(0.0026)	ND(0.0052)	0.011	ND(0.0022)	ND(0.0041)	ND(0.0041)	ND(0.0041)	ND(0.0019)
		30	1.58	0.016	ND(0.0093)	ND(0.0050)	ND(0.0036)	ND(0.0032)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.011)	ND(0.034)	ND(0.013)	ND(0.0078)	ND(0.0032)	ND(0.0027)	ND(0.0054)	0.027	ND(0.0023)	ND(0.0043)	ND(0.0043)	ND(0.0042)	ND(0.0020)
		30 DUP	1.55	0.014	ND(0.0091)	ND(0.0049)	ND(0.0036)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.011)	ND(0.033)	ND(0.013)	ND(0.0076)	ND(0.0032)	ND(0.0027)	ND(0.0053)	0.026	ND(0.0023)	ND(0.0042)	ND(0.0042)	ND(0.0042)	ND(0.0020)
		40	1.52	0.018	ND(0.009)	ND(0.0048)	ND(0.0035)	ND(0.0031)	ND(0.0030)	ND(0.0030)	ND(0.0030)	ND(0.011)	ND(0.032)	ND(0.012)	ND(0.0075)	ND(0.0031)	ND(0.0026)	ND(0.0052)	0.020	ND(0.0022)	ND(0.0041)	ND(0.0041)	ND(0.0041)	ND(0.0019)

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TABLE 2-4B. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, SOLVENT RELATED CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well	Date	Depth ft-bgs	Dilution Factor	Acetone mg/m^3	2-Butanone mg/m^3	Carbon tetrachloride mg/m^3	Chloro-benzene mg/m^3	1,1-Dichloro-ethane mg/m^3	1,1-Dichloro-ethene mg/m^3	cis-1,2-Dichloro-ethene mg/m^3	trans-1,2-Dichloro-ethene mg/m^3	1,4-Dioxane mg/m^3	Hexachloro-butadiene mg/m^3	2-Hexanone mg/m^3	Isopropanol mg/m^3	4-Methyl-2-Pentanone mg/m^3	Methylene Chloride mg/m^3	1,1,2,2-Tetrachloro-ethane mg/m^3	Tetrachloro-ethene mg/m^3	Tetrahydro-furan mg/m^3	1,1,1-Trichloro-ethane mg/m^3	1,1,2-Trichloro-ethane mg/m^3	Trichloro-ethene mg/m^3	Vinyl Chloride mg/m^3
VW-128	Jul 2011	5	2.48	0.019	ND(0.015)	ND(0.0078)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.053)	ND(0.020)	ND(0.012)	ND(0.0051)	ND(0.0043)	ND(0.0085)	ND(0.0084)	ND(0.0036)	ND(0.0068)	ND(0.0068)	ND(0.0067)	ND(0.0032)
		10	2.26	0.11	0.025	ND(0.0071)	ND(0.0052)	ND(0.0046)	ND(0.0045)	ND(0.0045)	ND(0.0045)	ND(0.016)	ND(0.048)	ND(0.018)	ND(0.011)	ND(0.0046)	ND(0.0039)	ND(0.0078)	ND(0.0077)	ND(0.0033)	ND(0.0062)	ND(0.0062)	ND(0.0061)	ND(0.0029)
		20	2.46	0.050	ND(0.014)	ND(0.0077)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.052)	ND(0.020)	0.18	ND(0.0050)	ND(0.0043)	ND(0.0084)	ND(0.0083)	ND(0.0036)	ND(0.0067)	ND(0.0067)	ND(0.0066)	ND(0.0031)
		30	2.40	0.030	ND(0.014)	ND(0.0076)	ND(0.0055)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.017)	ND(0.051)	ND(0.020)	ND(0.012)	ND(0.0049)	ND(0.0042)	ND(0.0082)	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0031)
		40	2.73	0.038	ND(0.016)	ND(0.0086)	ND(0.0063)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.020)	ND(0.058)	ND(0.022)	ND(0.013)	ND(0.0056)	ND(0.0047)	ND(0.0094)	ND(0.0092)	ND(0.0040)	ND(0.0074)	ND(0.0074)	ND(0.0073)	ND(0.0035)
		50	2.44	0.024 J	ND(0.014)	ND(0.0077)	ND(0.0056)	ND(0.0049)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.018)	ND(0.052)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0042)	ND(0.0084)	ND(0.0083)	ND(0.0036)	ND(0.0066)	ND(0.0066)	ND(0.0066)	ND(0.0031)
		50 DUP	2.39	0.033 J	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.020)	ND(0.012)	ND(0.0049)	ND(0.0042)	ND(0.0082)	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
VW-129	Jul 2011	5	2.38	ND(0.011)	ND(0.014)	ND(0.0075)	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041) UJ	ND(0.0082) UJ	ND(0.0081)	ND(0.0035)	ND(0.0065)	ND(0.0065)	ND(0.0064)	ND(0.0030)
		10	2.47	0.027	ND(0.014)	ND(0.0078)	ND(0.0057)	ND(0.0050)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.018)	ND(0.053)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0043) UJ	ND(0.0085) UJ	ND(0.0084)	ND(0.0036)	ND(0.0067)	ND(0.0067)	ND(0.0066)	ND(0.0032)
		20	2.33	0.044	ND(0.014)	ND(0.0073)	ND(0.0054)	ND(0.0047)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.017)	ND(0.050)	ND(0.019)	ND(0.011)	ND(0.0048)	ND(0.0040)	ND(0.0080)	ND(0.0079)	ND(0.0034)	ND(0.0064)	ND(0.0064)	ND(0.0063)	ND(0.0030)
		30	2.58	0.028	ND(0.015)	ND(0.0081)	ND(0.0059)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.0051)	ND(0.018)	ND(0.055)	ND(0.021)	ND(0.013)	ND(0.0053)	ND(0.0045)	ND(0.0088)	ND(0.0088)	ND(0.0038)	ND(0.0070)	ND(0.0070)	ND(0.0069)	ND(0.0033)
		30 DUP	2.66	0.034	ND(0.016)	ND(0.0084)	ND(0.0061)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.019)	ND(0.057)	ND(0.022)	ND(0.013)	ND(0.0054)	ND(0.0046)	ND(0.0091)	ND(0.009)	ND(0.0039)	ND(0.0072)	ND(0.0072)	ND(0.0071)	ND(0.0034)
		40	2.42	0.023	ND(0.014)	0.0083	ND(0.0056)	ND(0.0049)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.017)	ND(0.052)	ND(0.020)	ND(0.012)	ND(0.0050)	ND(0.0042)	ND(0.0083)	ND(0.0082)	ND(0.0036)	0.0066	ND(0.0066)	ND(0.0065)	ND(0.0031)
		50	2.38	0.021	ND(0.014)	0.0079	ND(0.0055)	ND(0.0048)	ND(0.0047)	ND(0.0047)	ND(0.0047)	ND(0.017)	ND(0.051)	ND(0.019)	ND(0.012)	ND(0.0049)	ND(0.0041)	ND(0.0082)	ND(0.0081)	ND(0.0035)	0.0087	ND(0.0065)	ND(0.0064)	ND(0.0030)

Notes:

Dup - Blind Duplicate Sample

J - Estimated concentration

mg/m^3 - milligram per cubic meter

ND - Not detected

UJ - estimated concentration below detection limit

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TABLE 2-4C. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, WATER TREATMENT RELATED AND OTHER CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well	Date	Depth ft-bgs	Dilution Factor	Allyl Chloride mg/m^3	Benzyl chloride mg/m^3	Bromo-methane mg/m^3	Carbon Disulfide mg/m^3	Chloro-ethane mg/m^3	Chloro-methane mg/m^3	1,2-Dichloro-benzene mg/m^3	1,3-Dichloro-benzene mg/m^3	1,4-Dichloro-benzene mg/m^3	Dichloro-difluoro-methane mg/m^3	1,2-Dichloro-propane mg/m^3	cis-1,3-dichloro-propene mg/m^3	trans-1,3-Dichloro-propene mg/m^3	1,2-Dichloro-1,1,2,2-tetrafluoro-ethane mg/m^3	Ethanol mg/m^3	1,2,4-Trichloro-benzene mg/m^3	Trichloro-fluoromethane mg/m^3	1,1,2-Trichloro-trifluoroethane mg/m^3	Bromo-dichloro-methane mg/m^3	Bromoform mg/m^3	Chloroform mg/m^3	Dibromo-chloro-methane mg/m^3
VW-93A	Jul 2011	5	2.66	ND(0.017)	ND(0.0069)	ND(0.0052)	ND(0.016)	ND(0.014)	ND(0.011)	ND(0.0080)	ND(0.0080)	ND(0.0080)	ND(0.0066)	ND(0.0061)	ND(0.0060)	ND(0.0060)	ND(0.0093)	ND(0.010)	ND(0.039)	ND(0.0075)	ND(0.010)	ND(0.0089)	ND(0.014)	ND(0.0065)	ND(0.011)
VW-93	Jul 2011	10	2.4	ND(0.015)	ND(0.0062)	ND(0.0047)	ND(0.015)	ND(0.013)	ND(0.0099)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0084)	ND(0.009)	ND(0.036)	ND(0.0067)	ND(0.0092)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		20	2.33	ND(0.014)	ND(0.0060)	ND(0.0045)	ND(0.014)	ND(0.012)	ND(0.0096)	ND(0.0070)	ND(0.0070)	ND(0.0070)	ND(0.0058)	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0081)	ND(0.0088)	ND(0.034)	ND(0.0065)	ND(0.0089)	ND(0.0078)	ND(0.012)	ND(0.0057)	ND(0.0099)
		30	2.39	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.013)	ND(0.0099)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0084)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0092)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		40	2.46	ND(0.015)	ND(0.0064)	ND(0.0048)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0086)	ND(0.0093)	ND(0.036)	ND(0.0069)	ND(0.0094)	ND(0.0082)	ND(0.013)	ND(0.0060)	ND(0.010)
		50	2.28	ND(0.014)	ND(0.0059)	ND(0.0044)	ND(0.014)	ND(0.012)	ND(0.0094)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0056)	ND(0.0053)	ND(0.0052)	ND(0.0052)	ND(0.0080)	ND(0.0086)	ND(0.034)	ND(0.0064)	ND(0.0087)	ND(0.0076)	ND(0.012)	ND(0.0056)	ND(0.0097)
		60	2.52	ND(0.016)	ND(0.0065)	ND(0.0049)	ND(0.016)	ND(0.013)	ND(0.010)	ND(0.0076)	ND(0.0076)	ND(0.0076)	ND(0.0062)	ND(0.0058)	ND(0.0057)	ND(0.0057)	ND(0.0088)	ND(0.0095)	ND(0.037)	ND(0.0071)	ND(0.0096)	ND(0.0084)	ND(0.013)	0.018	ND(0.011)
VW-96A	Jul 2011	5	2.47	ND(0.015)	ND(0.0064)	0.0082	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0086)	0.011	ND(0.037)	ND(0.0069)	ND(0.0095)	ND(0.0083)	ND(0.013)	ND(0.0060)	ND(0.010)
VW-96	Jul 2011	10	2.38	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		20	2.38	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		30	2.42	ND(0.015)	ND(0.0063)	ND(0.0047)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0073)	ND(0.0073)	ND(0.0073)	ND(0.0060)	ND(0.0056)	ND(0.0055)	ND(0.0055)	ND(0.0084)	ND(0.0091)	ND(0.036)	ND(0.0068)	ND(0.0093)	ND(0.0081)	ND(0.012)	ND(0.0059)	ND(0.010)
		40	2.38	ND(0.015)	ND(0.0062)	0.0061	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		50	2.58	ND(0.016)	ND(0.0067)	ND(0.0050)	ND(0.016)	ND(0.014)	ND(0.011)	ND(0.0078)	ND(0.0078)	ND(0.0078)	ND(0.0064)	ND(0.0060)	ND(0.0058)	ND(0.0058)	ND(0.009)	ND(0.0097)	ND(0.038)	ND(0.0072)	ND(0.0099)	ND(0.0086)	ND(0.013)	ND(0.0063)	ND(0.011)
		55	2.38	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	0.0067	ND(0.010)
	Sep 2011	10	2.24	ND(0.014)	ND(0.0058)	0.0063	ND(0.014)	ND(0.012)	ND(0.0092)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0055)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.0078)	ND(0.0084)	ND(0.033)	ND(0.0063)	ND(0.0086)	ND(0.0075)	ND(0.012)	ND(0.0055)	ND(0.0095)
		20	2.2	ND(0.014)	ND(0.0057)	ND(0.0043)	ND(0.014)	ND(0.012)	ND(0.0091)	ND(0.0066)	ND(0.0066)	ND(0.0066)	ND(0.0054)	ND(0.0051)	ND(0.0050)	ND(0.0050)	ND(0.0077)	ND(0.0083)	ND(0.033)	ND(0.0062)	ND(0.0084)	ND(0.0074)	ND(0.011)	ND(0.0054)	ND(0.0094)
		30	2.02	ND(0.013)	ND(0.0052)	ND(0.0039)	ND(0.012)	ND(0.011)	ND(0.0083)	ND(0.0061)	ND(0.0061)	ND(0.0061)	ND(0.0050)	ND(0.0047)	ND(0.0046)	ND(0.0046)	ND(0.0071)	ND(0.0076)	ND(0.030)	ND(0.0057)	ND(0.0077)	ND(0.0068)	ND(0.010)	ND(0.0049)	ND(0.0086)
		40	2.47	ND(0.015)	ND(0.0064)	ND(0.0048)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0086)	ND(0.0093)	ND(0.037)	ND(0.0069)	ND(0.0095)	ND(0.0083)	ND(0.013)	ND(0.0060)	ND(0.010)
	Oct 2011	10	1.44	ND(0.009)	ND(0.0037)	ND(0.0028)	ND(0.009)	ND(0.0076)	ND(0.0059)	ND(0.0043)	ND(0.0043)	ND(0.0043)	ND(0.0036)	ND(0.0033)	ND(0.0033)	ND(0.0033)	ND(0.0050)	ND(0.0054)	ND(0.021)	ND(0.0040)	ND(0.0055)	ND(0.0048)	ND(0.0074)	ND(0.0035)	ND(0.0061)
		20	1.58	ND(0.0099)	ND(0.0041)	ND(0.0031)	ND(0.0098)	ND(0.0083)	ND(0.0065)	ND(0.0047)	ND(0.0048)	ND(0.0048)	ND(0.0039)	ND(0.0036)	ND(0.0036)	ND(0.0036)	ND(0.0055)	0.0067	ND(0.023)	ND(0.0044)	ND(0.0060)	ND(0.0053)	ND(0.0082)	ND(0.0038)	ND(0.0067)
		30	1.44	ND(0.009)	ND(0.0037)	0.0034	ND(0.009)	ND(0.0076)	ND(0.0059)	ND(0.0043)	ND(0.0043)	ND(0.0043)	ND(0.0036)	ND(0.0033)	ND(0.0033)	ND(0.0033)	ND(0.0050)	0.0087	ND(0.021)	ND(0.0040)	ND(0.0055)	ND(0.0048)	ND(0.0074)	ND(0.0035)	ND(0.0061)
		40	1.55	ND(0.0097)	ND(0.0040)	0.0031	ND(0.0096)	ND(0.0082)	ND(0.0064)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.0038)	ND(0.0036)	ND(0.0035)	ND(0.0035)	ND(0.0054)	ND(0.0058)	ND(0.023)	ND(0.0044)	ND(0.0059)	ND(0.0052)	ND(0.0080)	ND(0.0038)	ND(0.0066)
VW-99	Jul 2011	10	2.28	ND(0.014)	ND(0.0059)	0.0062	ND(0.014)	ND(0.012)	ND(0.0094)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0056)	ND(0.0053)	ND(0.0052)	ND(0.0052)	ND(0.0080)	ND(0.0086)	ND(0.034)	ND(0.0064)	ND(0.0087)	ND(0.0076)	ND(0.012)	ND(0.0056)	ND(0.0097)
		20	2.68	ND(0.017)	ND(0.0069)	ND(0.0052)	ND(0.017)	ND(0.014)	ND(0.011)	ND(0.0080)	ND(0.0080)	ND(0.0080)	ND(0.0066)	ND(0.0062)	ND(0.0061)	ND(0.0061)	ND(0.0094)	ND(0.010)	ND(0.040)	ND(0.0075)	ND(0.010)	ND(0.009)	ND(0.014)	ND(0.0065)	ND(0.011)
		30	2.48	ND(0.016)	ND(0.0064)	0.0072	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0087)	ND(0.0093)	ND(0.037)	ND(0.0070)	ND(0.0095)	ND(0.0083)	ND(0.013)	ND(0.0060)	ND(0.010)
		30 DUP	2.5	ND(0.016)	ND(0.0065)	0.0060	0.026	ND(0.013)	ND(0.010)	ND(0.0075)	ND(0.0075)	ND(0.0075)	ND(0.0062)	ND(0.0058)	ND(0.0057)	ND(0.0057)	ND(0.0087)	ND(0.0094)	ND(0.037)	ND(0.0070)	ND(0.0096)	ND(0.0084)	ND(0.013)	ND(0.0061)	ND(0.011)
		40	2.31	ND(0.014)	ND(0.0060)	0.0048	ND(0.014)	ND(0.012)	ND(0.0095)	ND(0.0069)	ND(0.0069)	ND(0.0069)	ND(0.0057)	ND(0.0053)	ND(0.0052)	ND(0.0052)	ND(0.0081)	ND(0.0087)	ND(0.034)	ND(0.0065)	ND(0.0088)	ND(0.0077)	ND(0.012)	ND(0.0056)	ND(0.0098)
		50	2.42	ND(0.015)	ND(0.0063)	ND(0.0047)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0073)	ND(0.0073)	ND(0.0073)	ND(0.0060)	ND(0.0056)	ND(0.0055)	ND(0.0055)	ND(0.0084)	ND(0.0091)	ND(0.036)	ND(0.0068)	ND(0.0093)	ND(0.0081)	ND(0.012)	ND(0.0059)	ND(0.010)
		55	2.33	ND(0.14)	ND(0.060)	ND(0.045)	ND(0.036)	ND(0.12)	ND(0.096)	ND(0.070)	ND(0.070)	ND(0.070)	ND(0.058)	ND(0.054)	ND(0.053)	ND(0.053)	ND(0.081)	ND(0.088)	ND(0.34)	ND(0.065)	ND(0.089)	ND(0.078)	ND(0.12)	ND(0.057)	ND(0.099)
	Sep 2011	10	2.38	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		20	2.24	ND(0.014)	ND(0.0058)	ND(0.0043)	ND(0.014)	ND(0.012)	ND(0.0092)	ND(0.0067)	ND(0.0067)	ND(0.0067)	ND(0.0055)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.0078)	0.010	ND(0.033)	ND(0.0063)	ND(0.0086)	ND(0.0075)	ND(0.012)	0.0064	ND(0.0095)
		30	2.42	ND(0.015)	ND(0.0063)	ND(0.0047) UJ	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0073)	ND(0.0073)	ND(0.0073)	ND(0.0060)	ND(0.0056)	ND(0.0055)	ND(0.0055)	ND(0.0084)	ND(0.0091)	ND(0.036)	ND(0.0068)	ND(0.0093)	ND(0.0081)	ND(0.012)	ND(0.0059)	ND(0.010)
		30 DUP	2.58	ND(0.016)	ND(0.0067)	0.013 J	ND(0.016)	ND(0.014)	ND(0.011)	ND(0.0078)	ND(0.0078)	ND(0.0078)	ND(0.0064)	ND(0.0060)	ND(0.0058)	ND(0.0058)	ND(0.009)	ND(0.0097)	ND(0.038)	ND(0.0072)	ND(0.0099)	ND(0.0086)	ND(0.013)	ND(0.0063)	ND(0.011)
		40	2.38	ND(0.015)	ND(0.0062)	0.0062	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	0.011	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
	Oct 2011	10	1.58	ND(0.0099)	ND(0.0041)	ND(0.0031)	ND(0.0098)	ND(0.0083)	ND(0.0065)	ND(0.0047)	ND(0.0048)	ND(0.0048)	ND(0.0039)	ND(0.0036)	ND(0.0036)	ND(0.0036)	ND(0.0055)	ND(0.0060)	ND(0.023)	ND(0.0044)	ND(0.0060)	ND(0.0053)	ND(0.0082)	ND(0.0038)	ND(0.0067)
		20	1.52	ND(0.0095)	ND(0.0039)	ND(0.0030)	ND(0.0095)	ND(0.0080)	ND(0.0063)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.0038)	ND(0.0035)	ND(0.0034)	ND(0.0034)	ND(0.0053)	ND(0.0057)	ND(0.022)	ND(0.0043)	ND(0.0058)	ND(0.0051)	ND(0.0078)	0.0050	ND(0.0065)
		30	1.58	ND(0.0099)	ND(0.0041)	ND(0.0031)	ND(0.0098)	ND(0.0083)	ND(0.0065)	ND(0.0047)	ND(0.0048)	ND(0.0048)	ND(0.0039)	ND(0.0036)	ND(0.0036)	ND(0.0036)	ND(0.0055)	ND(0.0060)	ND(0.023)	ND(0.0044)	ND(0.0060)	ND(0.0053)	ND(0.0082)	0.0046	ND(0.0067)
		30 DUP	1.55	ND(0.0097)	ND(0.0040)	ND(0.0030)	ND(0.0096)	ND(0.0082)	ND(0.0064)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.0038)	ND(0.0036)	ND(0.0035)	ND(0.0035)	ND(0.0054)	ND(0.0058)	ND(0.023)	ND(0.0044)	ND(0.0059)	ND(0.0052)	ND(0.0080)	0.0044	ND(0.0066)
		40	1.52	ND(0.0095)	ND(0.0039)	ND(0.0030)	ND(0.0095)	ND(0.0080)	ND(0.0063)	ND(0.0046)	ND(0.0046)	ND(0.0046)	ND(0.0038)	ND(0.0035)	ND(0.0034)	ND(0.0034)	ND(0.0053)	0.0090	ND(0.022)	ND(0.0043)	ND(0.0058)	ND(0.0051)	ND(0.0078)	ND(0.0037)	ND(0.0065)

US EPA ARCHIVE DOCUMENT

TABLE 2-4C. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, WATER TREATMENT RELATED AND OTHER CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well	Date	Depth ft-bgs	Dilution Factor	Allyl Chloride mg/m^3	Benzyl chloride mg/m^3	Bromo-methane mg/m^3	Carbon Disulfide mg/m^3	Chloro-ethane mg/m^3	Chloro-methane mg/m^3	1,2-Dichloro-benzene mg/m^3	1,3-Dichloro-benzene mg/m^3	1,4-Dichloro-benzene mg/m^3	Dichloro-difluoro-methane mg/m^3	1,2-Dichloro-propane mg/m^3	cis-1,3-dichloro-propene mg/m^3	trans-1,3-Dichloro-propene mg/m^3	1,2-Dichloro-1,1,2,2-tetrafluoro-ethane mg/m^3	Ethanol mg/m^3	1,2,4-Trichloro-benzene mg/m^3	Trichloro-fluoromethane mg/m^3	1,1,2-Trichloro-trifluoroethane mg/m^3	Bromo-dichloro-methane mg/m^3	Bromoform mg/m^3	Chloroform mg/m^3	Dibromo-chloro-methane mg/m^3
VW-128	Jul 2011	5	2.48	ND(0.016)	ND(0.0064)	ND(0.0048)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0087)	ND(0.0093)	ND(0.037)	ND(0.0070)	ND(0.0095)	ND(0.0083)	ND(0.013)	ND(0.0060)	ND(0.010)
		10	2.26	ND(0.014)	ND(0.0058)	ND(0.0044)	0.020	ND(0.012)	ND(0.0093)	ND(0.0068)	ND(0.0068)	ND(0.0068)	ND(0.0056)	ND(0.0052)	ND(0.0051)	ND(0.0051)	ND(0.0079)	0.018	ND(0.034)	ND(0.0063)	ND(0.0087)	ND(0.0076)	ND(0.012)	ND(0.0055)	ND(0.0096)
		20	2.46	ND(0.015)	ND(0.0064)	ND(0.0048)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0086)	ND(0.0093)	ND(0.036)	ND(0.0069)	ND(0.0094)	ND(0.0082)	ND(0.013)	0.018	ND(0.010)
		30	2.4	ND(0.015)	ND(0.0062)	ND(0.0047)	ND(0.015)	ND(0.013)	ND(0.0099)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0084)	ND(0.009)	ND(0.036)	ND(0.0067)	ND(0.0092)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		40	2.73	ND(0.017)	ND(0.0071)	ND(0.0053)	ND(0.017)	ND(0.014)	ND(0.011)	ND(0.0082)	ND(0.0082)	ND(0.0082)	ND(0.0068)	ND(0.0063)	ND(0.0062)	ND(0.0062)	ND(0.0095)	ND(0.010)	ND(0.040)	ND(0.0077)	ND(0.010)	ND(0.0091)	ND(0.014)	ND(0.0067)	ND(0.012)
		50	2.44	ND(0.015)	ND(0.0063)	ND(0.0047)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0073)	ND(0.0073)	ND(0.0073)	0.0081	ND(0.0056)	ND(0.0055)	ND(0.0055)	ND(0.0085)	ND(0.0092)	ND(0.036)	ND(0.0068)	ND(0.0094)	ND(0.0082)	ND(0.013)	ND(0.0060)	ND(0.010)
		50 DUP	2.39	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.013)	ND(0.0099)	ND(0.0072)	ND(0.0072)	ND(0.0072)	0.0084	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0084)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0092)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
VW-129	Jul 2011	5	2.38	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	ND(0.0059)	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	ND(0.0067)	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)
		10	2.47	ND(0.015)	ND(0.0064)	ND(0.0048)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0074)	ND(0.0074)	ND(0.0074)	ND(0.0061)	ND(0.0057)	ND(0.0056)	ND(0.0056)	ND(0.0086)	ND(0.0093)	ND(0.037)	ND(0.0069)	ND(0.0095)	ND(0.0083)	ND(0.013)	ND(0.0060)	ND(0.010)
		20	2.33	ND(0.014)	ND(0.0060)	ND(0.0045)	ND(0.014)	ND(0.012)	ND(0.0096)	ND(0.0070)	ND(0.0070)	ND(0.0070)	0.0090	ND(0.0054)	ND(0.0053)	ND(0.0053)	ND(0.0081)	0.010	ND(0.034)	0.0072	ND(0.0089)	ND(0.0078)	ND(0.012)	ND(0.0057)	ND(0.0099)
		30	2.58	ND(0.016)	ND(0.0067)	ND(0.0050)	ND(0.016)	ND(0.014)	ND(0.011)	ND(0.0078)	ND(0.0078)	ND(0.0078)	0.016	ND(0.0060)	ND(0.0058)	ND(0.0058)	ND(0.009)	0.011	ND(0.038)	0.011	ND(0.0099)	ND(0.0086)	ND(0.013)	ND(0.0063)	ND(0.011)
		30 DUP	2.66	ND(0.017)	ND(0.0069)	ND(0.0052)	ND(0.016)	ND(0.014)	ND(0.011)	ND(0.0080)	ND(0.0080)	ND(0.0080)	0.015	ND(0.0061)	ND(0.0060)	ND(0.0060)	ND(0.0093)	ND(0.010)	ND(0.039)	0.013	ND(0.010)	ND(0.0089)	ND(0.014)	ND(0.0065)	ND(0.011)
		40	2.42	ND(0.015)	ND(0.0063)	ND(0.0047)	ND(0.015)	ND(0.013)	ND(0.010)	ND(0.0073)	ND(0.0073)	ND(0.0073)	0.021	ND(0.0056)	ND(0.0055)	ND(0.0055)	ND(0.0084)	ND(0.0091)	ND(0.036)	0.013	ND(0.0093)	ND(0.0081)	ND(0.012)	ND(0.0059)	ND(0.010)
		50	2.38	ND(0.015)	ND(0.0062)	ND(0.0046)	ND(0.015)	ND(0.012)	ND(0.0098)	ND(0.0072)	ND(0.0072)	ND(0.0072)	0.021	ND(0.0055)	ND(0.0054)	ND(0.0054)	ND(0.0083)	ND(0.009)	ND(0.035)	0.013	ND(0.0091)	ND(0.0080)	ND(0.012)	ND(0.0058)	ND(0.010)

Notes:

Dup - Blind Duplicate Sample

J - Estimated concentration

mg/m^3 - milligram per cubic meter

ND - Not detected

UJ - estimated concentration below detection limit

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TABLE 2-4D. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, FIXED GASES
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well Location	Date	Depth	Method	ASTM Dilution Factor	Oxygen %	Carbon Dioxide %	Methane %
VW-93A	Jul 2011	5	ASTM-D 1946	2.66	18.0	2.6	ND(0.00063)
VW-93	Jul 2011	10	ASTM-D 1946	2.40	18.0	1.7	ND(0.00058)
		20	ASTM-D 1946	2.33	18.0	1.3	ND(0.00064)
		30	ASTM-D 1946	2.39	18.0	2.1	ND(0.00024)
		40	ASTM-D 1946	2.46	18.0	1.5	ND(0.00025)
		50	ASTM-D 1946	2.28	18.0	1.7	ND(0.00023)
		60	ASTM-D 1946	2.52	15.0	2.8	ND(0.00025)
VW-96A	Jul 2011	5	ASTM-D 1946	2.47	17.0	3.3	ND(0.00025)
VW-96	Jul 2011	10	ASTM-D 1946	2.38	17.0	2.1	ND(0.00024)
		20	ASTM-D 1946	2.38	18.0	0.7	ND(0.00024)
		30	ASTM-D 1946	2.42	16.0	0.4	ND(0.00024)
		40	ASTM-D 1946	2.38	14.0	1.2	ND(0.00024)
		50	ASTM-D 1946	2.58	12.0	2.4	ND(0.00026)
		55	ASTM-D 1946	2.38	6.0	6.9	ND(0.00024)
	Sep 2011	10	ASTM-D 1946	2.24	19.0	3.0	ND(0.00022)
		20	ASTM-D 1946	2.20	17.0	2.5	ND(0.00022)
		30	ASTM-D 1946	2.02	16.0	0.8	ND(0.00020)
		40	ASTM-D 1946	2.47	15.0	2.2	ND(0.00025)
	Oct 2011	10	ASTM-D 1946	1.44	20.0	1.0	ND(0.00014)
		20	ASTM-D 1946	1.58	20.0	1.1	ND(0.00016)
		30	ASTM-D 1946	1.44	19.0	1.1	ND(0.00014)
		40	ASTM-D 1946	1.55	19.0	1.5	ND(0.00016)
VW-99	Jul 2011	10	ASTM-D 1946	2.28	18.0	0.2	ND(0.00023)
		20	ASTM-D 1946	2.68	18.0	0.3	ND(0.00027)
		30	ASTM-D 1946	2.48	13.0	0.6	ND(0.00025)
		30 DUP	ASTM-D 1946	2.50	13.0	0.6	ND(0.00025)
		40	ASTM-D 1946	2.31	7.9	2.8	ND(0.00023)
		50	ASTM-D 1946	2.42	3.8	6.8	ND(0.00024)
		55	ASTM-D 1946	2.33	2.3	7.5	3.1
	Sep 2011	10	ASTM-D 1946	2.38	18.0	1.2	ND(0.00024)
		20	ASTM-D 1946	2.24	18.0	1.5	ND(0.00022)
		30	ASTM-D 1946	2.42	14.0	0.8	ND(0.00024)
		30 DUP	ASTM-D 1946	2.58	15.0	0.8	ND(0.00026)
		40	ASTM-D 1946	2.38	9.8	3.2	ND(0.00024)
	Oct 2011	10	ASTM-D 1946	1.58	19.0	0.4	ND(0.00016)
		20	ASTM-D 1946	1.52	19.0	0.8	ND(0.00015)
		30	ASTM-D 1946	1.58	19.0	1.2	ND(0.00016)
		30 DUP	ASTM-D 1946	1.55	19.0	1.2	ND(0.00016)
		40	ASTM-D 1946	1.52	19.0	1.8	ND(0.00015)

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TABLE 2-4D. NESTED VAPOR MONITORING WELL ANALYTICAL RESULTS SUMMARY, FIXED GASES
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Well Location	Date	Depth	Method	ASTM Dilution Factor	Oxygen %	Carbon Dioxide %	Methane %
VW-128	Jul 2011	5	ASTM-D 1946	2.48	19.0	2.0	ND(0.00050)
		10	ASTM-D 1946	2.26	19.0	0.7	ND(0.00023)
		20	ASTM-D 1946	2.46	18.0	1.0	ND(0.00025)
		30	ASTM-D 1946	2.40	18.0	2.4	ND(0.00024)
		40	ASTM-D 1946	2.73	15.0	3.6	ND(0.00027)
		50	ASTM-D 1946	2.44	12.0	5.9	ND(0.00024)
		50 DUP	ASTM-D 1946	2.39	12.0	6.1	ND(0.00024)
VW-129	Jul 2011	5	ASTM-D 1946	2.38	16.0	2.7	ND(0.00047)
		10	ASTM-D 1946	2.47	18.0	2.2	ND(0.00049)
		20	ASTM-D 1946	2.33	16.0	2.1	ND(0.00023)
		30	ASTM-D 1946	2.58	16.0	2.6	ND(0.00026)
		30 DUP	ASTM-D 1946	2.66	16.0	2.6	ND(0.00027)
		40	ASTM-D 1946	2.42	16.0	2.9	ND(0.00024)
		50	ASTM-D 1946	2.38	15.0	2.9	ND(0.00024)

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TABLE 2-5. BARRIER WALL PERFORMANCE MONITORING CONSTITUENTS OF CONCERN ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
BSW-1S		12/29/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BSW-1D		12/29/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-1S		12/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-1I		12/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-1D		12/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BSW-2S		12/28/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BSW-2D		12/28/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-2S		12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
	Dup	12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-2I		12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-2D		12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BSW-3S		12/27/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BSW-3D		12/27/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
	Dup	12/27/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012) J
BMW-3S		12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-3I		12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
BMW-3D		12/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-135S		12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	0.0075
MW-135I		12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-135D		12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-136S		12/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	0.026	0.013
	Dup	12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	0.026	0.013
MW-136I		12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-136D		12/12/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)

TABLE 2-5. BARRIER WALL PERFORMANCE MONITORING CONSTITUENTS OF CONCERN ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
MW-137S	12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	0.011
MW-137I	12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
MW-137D	12/14/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)

Notes:
The method detection limit was used as the reporting limit.
Dup - Duplicate sample
J - Estimated concentration
mg/L - milligram per liter
ND - Not detected at the indicated laboratory reporting limit or the method detection limit.

TABLE 3-1. SCREENING EVALUATION FOR DEEP NESTED SOIL VAPOR RESULTS, GASOLINE RELATED CONSTITUENTS
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Nested Vapor Monitoring Well	Date	Depth	Dilution Factor	n-Butylbenzene mg/m^3	sec-Butylbenzene mg/m^3	Isopropylbenzene mg/m^3	n-Propylbenzene mg/m^3	1,2-Dichloroethane mg/m^3	1,2-Dibromoethane mg/m^3	MTBE mg/m^3	Naphthalene mg/m^3	Benzene mg/m^3	Toluene mg/m^3	Ethylbenzene mg/m^3	m,p-Xylene mg/m^3	o-Xylene mg/m^3	Cyclohexane mg/m^3	Hexane mg/m^3	Heptane mg/m^3	Styrene mg/m^3	2,2,4-Trimethylpentane mg/m^3	1,3,5-Trimethylbenzene mg/m^3	1,2,4-Trimethylbenzene mg/m^3	1,3-Butadiene mg/m^3	4-Ethyltoluene mg/m^3	Butane mg/m^3	Isopentane mg/m^3	Methyl cyclohexane mg/m^3
VW-93	Jul 2011	20	2.33	ND(0.026)	ND(0.026)	ND(0.0057)	ND(0.0057)	ND(0.0047)	**ND(0.009)**	ND(0.0042)	ND(0.024)	ND(0.0037)	ND(0.0044)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0041)	ND(0.0048)	ND(0.0050)	ND(0.0054)	ND(0.0057)	ND(0.0057)	ND(0.0026)	ND(0.0057)	ND(0.011)	ND(0.014)	ND(0.019)
		30	2.39	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	**ND(0.0092)**	ND(0.0043)	ND(0.025)	ND(0.0038)	0.022	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	0.015	ND(0.019)
		40	2.46	ND(0.027)	ND(0.027)	ND(0.0060)	ND(0.0060)	ND(0.0050)	**ND(0.0094)**	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0057)	ND(0.0060)	ND(0.0060)	ND(0.0027)	ND(0.0060)	ND(0.012)	ND(0.014)	ND(0.020)
		50	2.28	ND(0.025)	ND(0.025)	ND(0.0056)	ND(0.0056)	ND(0.0046)	**ND(0.0088)**	ND(0.0041)	ND(0.024)	ND(0.0036)	ND(0.0043)	ND(0.0049)	ND(0.0050)	ND(0.0050)	ND(0.0039)	ND(0.0040)	ND(0.0047)	ND(0.0048)	ND(0.0053)	ND(0.0056)	ND(0.0056)	ND(0.0025)	ND(0.0056)	ND(0.011)	ND(0.013)	ND(0.018)
		60	2.52	ND(0.028)	ND(0.028)	ND(0.0062)	ND(0.0062)	ND(0.0051)	**ND(0.0097)**	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0055)	ND(0.0055)	ND(0.0055)	ND(0.0043)	ND(0.0044)	ND(0.0052)	ND(0.0054)	ND(0.0059)	ND(0.0062)	ND(0.0062)	ND(0.0028)	ND(0.0062)	ND(0.012)	ND(0.015)	ND(0.020)
VW-96	Jul 2011	20	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	**ND(0.0091)**	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)
		30	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	**ND(0.0093)**	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)
		40	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	**ND(0.0091)**	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	0.014	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)
		50	2.58	ND(0.028)	ND(0.028)	ND(0.0063)	ND(0.0063)	ND(0.0052)	**ND(0.0099)**	ND(0.0046)	ND(0.027)	ND(0.0041)	ND(0.0049)	ND(0.0056)	ND(0.0056)	ND(0.0056)	ND(0.0044)	ND(0.0045)	ND(0.0053)	ND(0.0055)	ND(0.0060)	0.012	ND(0.0063)	ND(0.0028)	ND(0.0063)	ND(0.012)	ND(0.015)	ND(0.021)
		55	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	**ND(0.0091)**	ND(0.0043)	ND(0.025)	ND(0.0038)	0.040	ND(0.0052)	0.0072	ND(0.0052)	0.027	ND(0.0042)	ND(0.0049)	ND(0.0051)	0.073	0.031	0.046	ND(0.0026)	0.010	ND(0.011)	0.050	0.065
	Sep 2011	20	2.2	ND(0.024)	ND(0.024)	ND(0.0054)	ND(0.0054)	ND(0.0044)	**ND(0.0084)**	ND(0.0040)	ND(0.023)	ND(0.0035)	ND(0.0041)	ND(0.0048)	ND(0.0048)	ND(0.0048)	ND(0.0038)	ND(0.0039)	ND(0.0045)	ND(0.0047)	ND(0.0051)	ND(0.0054)	ND(0.0054)	ND(0.0024)	ND(0.0054)	ND(0.010)	ND(0.013)	ND(0.018)
		30	2.02	ND(0.022)	ND(0.022)	ND(0.0050)	ND(0.0050)	ND(0.0041)	**ND(0.0078)**	ND(0.0036)	ND(0.021)	ND(0.0032)	ND(0.0038)	ND(0.0044)	ND(0.0044)	ND(0.0044)	ND(0.0035)	ND(0.0036)	ND(0.0041)	ND(0.0043)	ND(0.0047)	0.0051	ND(0.0050)	ND(0.0022)	ND(0.0050)	ND(0.0096)	ND(0.012)	ND(0.016)
		40	2.47	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	**ND(0.0095)**	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0042)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	0.0072	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.014)	ND(0.020)
	Oct 2011	20	1.58	ND(0.017)	ND(0.017)	ND(0.0039)	ND(0.0039)	ND(0.0032)	**ND(0.0061)**	ND(0.0028)	ND(0.016)	0.0063	0.023	0.0046	0.028	0.011	ND(0.0027)	0.0062	0.0044	ND(0.0034)	0.011	0.0066	0.011	ND(0.0017)	0.0086	0.011	0.015	ND(0.013)
		30	1.44	ND(0.016)	ND(0.016)	ND(0.0035)	ND(0.0035)	ND(0.0029)	**ND(0.0055)**	ND(0.0026)	ND(0.015)	ND(0.0023)	ND(0.0027)	ND(0.0031)	ND(0.0031)	ND(0.0031)	ND(0.0025)	ND(0.0025)	ND(0.0030)	ND(0.0031)	ND(0.0034)	0.0068	ND(0.0035)	ND(0.0016)	ND(0.0035)	ND(0.0068)	ND(0.0085)	ND(0.012)
		40	1.55	ND(0.017)	ND(0.017)	ND(0.0038)	ND(0.0038)	ND(0.0031)	**ND(0.0060)**	ND(0.0028)	ND(0.016)	ND(0.0025)	0.0038	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0027)	ND(0.0032)	ND(0.0033)	ND(0.0036)	0.0062	ND(0.0038)	ND(0.0017)	ND(0.0038)	ND(0.0074)	ND(0.0091)	ND(0.012)
VW-99	Jul 2011	20	2.68	ND(0.029)	ND(0.029)	ND(0.0066)	ND(0.0066)	ND(0.0054)	**ND(0.010)**	ND(0.0048)	ND(0.028)	ND(0.0043)	ND(0.0050)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0046)	ND(0.0047)	ND(0.0055)	ND(0.0057)	ND(0.0062)	ND(0.0066)	ND(0.0066)	ND(0.0030)	ND(0.0066)	ND(0.013)	ND(0.016)	ND(0.022)
		30	2.48	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	**ND(0.0095)**	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0043)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0027)	ND(0.0061)	ND(0.012)	ND(0.015)	ND(0.020)
		30 DUP	2.5	ND(0.027)	ND(0.027)	ND(0.0061)	ND(0.0061)	ND(0.0050)	**ND(0.0096)**	ND(0.0045)	ND(0.026)	ND(0.0040)	ND(0.0047)	ND(0.0054)	ND(0.0054)	ND(0.0054)	ND(0.0043)	ND(0.0044)	ND(0.0051)	ND(0.0053)	ND(0.0058)	ND(0.0061)	ND(0.0061)	ND(0.0028)	ND(0.0061)	ND(0.012)	ND(0.015)	ND(0.020)
		40	2.31	ND(0.025)	ND(0.025)	ND(0.0057)	ND(0.0057)	ND(0.0047)	**ND(0.0089)**	ND(0.0042)	ND(0.024)	ND(0.0037)	0.0075	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0041)	ND(0.0047)	ND(0.0049)	ND(0.0054)	ND(0.0057)	ND(0.0057)	ND(0.0026)	ND(0.0057)	ND(0.011)	ND(0.014)	ND(0.018)
		50	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	**ND(0.0093)**	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)
		55	2.33	ND(0.26)	ND(0.26)	ND(0.057)	ND(0.057)	ND(0.047)	**ND(0.090)**	ND(0.042)	**ND(0.24)**	0.065	ND(0.044)	ND(0.050)	ND(0.050)	ND(0.050)	1.8	2.3	0.85	ND(0.050)	48	ND(0.057)	ND(0.057)	ND(0.026)	ND(0.057)	2.7	32	2.8
	Sep 2011	20	2.24	ND(0.024)	ND(0.024)	ND(0.0055)	ND(0.0055)	ND(0.0045)	**ND(0.0086)**	ND(0.0040)	ND(0.023)	ND(0.0036)	ND(0.0042)	ND(0.0049)	ND(0.0049)	ND(0.0049)	ND(0.0038)	ND(0.0039)	ND(0.0046)	ND(0.0048)	ND(0.0052)	ND(0.0055)	ND(0.0055)	ND(0.0025)	ND(0.0055)	ND(0.011)	ND(0.013)	ND(0.018)
		30	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	**ND(0.0093)**	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)
		30 DUP	2.58	ND(0.028)	ND(0.028)	ND(0.0063)	ND(0.0063)	ND(0.0052)	**ND(0.0099)**	ND(0.0046)	ND(0.027)	ND(0.0041)	ND(0.0049)	ND(0.0056)	ND(0.0056)	ND(0.0056)	ND(0.0044)	ND(0.0045)	ND(0.0053)	ND(0.0055)	ND(0.0060)	ND(0.0063)	ND(0.0063)	ND(0.0028)	ND(0.0063)	ND(0.012)	ND(0.015)	ND(0.021)
		40	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	**ND(0.0091)**	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)
	Oct 2011	20	1.52	ND(0.017)	ND(0.017)	ND(0.0037)	ND(0.0037)	ND(0.0031)	**ND(0.0058)**	ND(0.0027)	ND(0.016)	ND(0.0024)	ND(0.0029)	ND(0.0033)	ND(0.0033)	ND(0.0033)	ND(0.0026)	ND(0.0027)	ND(0.0031)	ND(0.0032)	ND(0.0036)	ND(0.0037)	ND(0.0037)	ND(0.0017)	ND(0.0037)	ND(0.0072)	ND(0.009)	ND(0.012)
		30	1.58	ND(0.017)	ND(0.017)	ND(0.0039)	ND(0.0039)	ND(0.0032)	**ND(0.0061)**	ND(0.0028)	ND(0.016)	ND(0.0025)	ND(0.0030)	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0028)	ND(0.0032)	ND(0.0034)	ND(0.0037)	ND(0.0039)	ND(0.0039)	ND(0.0017)	ND(0.0039)	ND(0.0075)	ND(0.0093)	ND(0.013)
		30 DUP	1.55	ND(0.017)	ND(0.017)	ND(0.0038)	ND(0.0038)	ND(0.0031)	**ND(0.0060)**	ND(0.0028)	ND(0.016)	ND(0.0025)	ND(0.0029)	ND(0.0034)	ND(0.0034)	ND(0.0034)	ND(0.0027)	ND(0.0027)	ND(0.0032)	ND(0.0033)	ND(0.0036)	ND(0.0038)	ND(0.0038)	ND(0.0017)	ND(0.0038)	ND(0.0074)	ND(0.0091)	ND(0.012)
		40	1.52	ND(0.017)	ND(0.017)	ND(0.0037)	ND(0.0037)	ND(0.0031)	ND(0.0058)	ND(0.0027)	ND(0.016)	ND(0.0024)	ND(0.0029)	ND(0.0033)	ND(0.0033)	ND(0.0033)	ND(0.0026)	ND(0.0027)	ND(0.0031)	ND(0.0032)	ND(0.0036)	ND(0.0037)	ND(0.0037)	ND(0.0017)	ND(0.0037)	ND(0.0072)	ND(0.009)	ND(0.012)
VW-128	Jul 2011	20	2.46	ND(0.027)	ND(0.027)	ND(0.0060)	ND(0.0060)	ND(0.0050)	**ND(0.0094)**	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0057)	ND(0.0060)	ND(0.0060)	ND(0.0027)	ND(0.0060)	ND(0.012)	ND(0.014)	ND(0.020)
		30	2.4	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	**ND(0.0092)**	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	ND(0.014)	ND(0.019)
		40	2.73	ND(0.030)	ND(0.030)	ND(0.0067)	ND(0.0067)	ND(0.0055)	**ND(0.010)**	ND(0.0049)	ND(0.029)	ND(0.0044)	ND(0.0051)	ND(0.0059)	ND(0.0059)	ND(0.0059)	ND(0.0047)	ND(0.0048)	ND(0.0056)	ND(0.0058)	ND(0.0064)	ND(0.0067)	ND(0.0067)	ND(0.0030)	ND(0.0067)	ND(0.013)	ND(0.016)	ND(0.022)
		50	2.44	ND(0.027)	ND(0.027)	ND(0.0060)	ND(0.0060)	ND(0.0049)	**ND(0.0094)**	ND(0.0044)	ND(0.026)	ND(0.0039)	ND(0.0046)	ND(0.0053)	ND(0.0053)	ND(0.0053)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0057)	ND(0.0060)	ND(0.0060)	ND(0.0027)	ND(0.0060)	ND(0.012)	ND(0.014)	ND(0.020)
		50 DUP	2.39	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0048)	**ND(0.0092)**	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0026)	ND(0.0059)	ND(0.011)	ND(0.014)	ND(0.019)
VW-129	Jul 2011	20	2.33	ND(0.026)	ND(0.026)	ND(0.0057)	ND(0.0057)	ND(0.0047)	**ND(0.009)**	ND(0.0042)	ND(0.024)	ND(0.0037)	ND(0.0044)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0040)	ND(0.0041)	ND(0.0048)	ND(0.0050)	ND(0.0054)	ND(0.0057)	ND(0.0057)	ND(0.0026)	ND(0.0057)	ND(0.011)	ND(0.014)	ND(0.019)
		30	2.58	ND(0.028)	ND(0.028)	ND(0.0063)	ND(0.0063)	ND(0.0052)	**ND(0.0099)**	ND(0.0046)	ND(0.027)	ND(0.0041)	ND(0.0049)	ND(0.0056)	ND(0.0056)	ND(0.0056)	ND(0.0044)	ND(0.0045)	ND(0.0053)	ND(0.0055)	ND(0.0060)	ND(0.0063)	ND(0.0063)	ND(0.0028)	ND(0.0063)	ND(0.012)	ND(0.015)	ND(0.021)
		30 DUP	2.66	ND(0.029)	ND(0.029)	ND(0.0065)	ND(0.0065)	ND(0.0054)	**ND(0.010)**	ND(0.0048)	ND(0.028)	ND(0.0042)	ND(0.0050)	ND(0.0058)	ND(0.0058)	ND(0.0058)	ND(0.0046)	ND(0.0047)	ND(0.0054)	ND(0.0057)	ND(0.0062)	ND(0.0065)	ND(0.0065)	ND(0.0029)	ND(0.0065)	ND(0.013)	ND(0.016)	ND(0.021)
		40	2.42	ND(0.026)	ND(0.026)	ND(0.0059)	ND(0.0059)	ND(0.0049)	**ND(0.0093)**	ND(0.0044)	ND(0.025)	ND(0.0039)	ND(0.0046)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0042)	ND(0.0043)	ND(0.0050)	ND(0.0052)	ND(0.0056)	ND(0.0059)	ND(0.0059)	ND(0.0027)	ND(0.0059)	ND(0.012)	ND(0.014)	ND(0.019)
		50	2.38	ND(0.026)	ND(0.026)	ND(0.0058)	ND(0.0058)	ND(0.0048)	**ND(0.0091)**	ND(0.0043)	ND(0.025)	ND(0.0038)	ND(0.0045)	ND(0.0052)	ND(0.0052)	ND(0.0052)	ND(0.0041)	ND(0.0042)	ND(0.0049)	ND(0.0051)	ND(0.0056)	ND(0.0058)	ND(0.0058)	ND(0.0026)	ND(0.0058)	ND(0.011)	ND(0.014)	ND(0.019)
USEPA RSL for Depths of 20 ft-bgs				NA	NA	210	NA	0.047	0.002	4.7	0.036	0.155	2600	0.49	50	50	3150	365	NA	500	NA	NA	3.7	0.041	NA	NA	NA	NA
USEPA RSL for Depths Greater than 20 ft-bgs to 35 ft-bgs				NA	NA	420	NA	0.094	0.004	9.4	0.072	0.310	5200	0.97	100	100	6300	730	NA	1000	NA	NA	7.3	0.081	NA	NA	NA	NA
USEPA RSL for Depths Greater than 35 ft-bgs				NA	NA	600	NA	0.134	0.006	13.4	0.103	0.443	7429	1.39	143	143	9000	1043	NA	1429	NA	NA	10.4	0.116	NA	NA	NA	NA

Notes:

Screening levels for Hooven calculated using the Regional Screening Levels for Residential Air and semi-site specific attenuation factors from Figure 3a of the *OSWER Draft VI Guidance*. For depths of 20 ft-bgs an attenuation factor of 0.002 was used, for depths of greater than 20 ft-bgs to 35 ft-bgs an attenuation factor of 0.001 was used, and for depths greater than 35 ft-bgs an attenuation factor of 0.0007 was used.

Screening levels for the Southwest Quad calculated using the Regional Screening Levels for Residential Air and semi-site specific attenuation factors from Figure 3a of the *OSWER Draft VI Guidance*. For depths between 5 and 10 ft-bgs an attenuation factor of 0.002 was used, for depths of greater than 10 ft-bgs to 30 ft-bgs an attenuation factor of 0.001 was used, and for depths greater than 30 ft-bgs an attenuation factor of 0.0007 was used.

BOLD - reported value is above the adjusted USEPA November 2011 RSL screening standard at the specified depth

Dup - Blind Duplicate Sample

J – estimated concentration

mg/m^3 - milligram per cubic meter

MTBE - methyl tert butyl ether

NA - Not Available

ND - Not detected

US EPA ARCHIVE DOCUMENT

TABLE 4-1. WEEKLY LNAPL RECOVERY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Week	Date	Weekly Recovery	Subtotal
1	7/25/2011	0	0
2	8/1/2011	0	0
3	8/8/2011	0	0
4	8/15/2011	0	0
5	8/22/2011	0	0
6	8/29/2011	0	0
7	9/5/2011	0	0
8	9/12/2011	0	0
9	9/19/2011	0	0
10	9/26/2011	486	486
11	10/3/2011	280	766
12	10/10/2011	0	766
13	10/17/2011	33	799
14	10/24/2011	250	1,049
15	10/31/2011	11	1,060
16	11/7/2011	2	1,062
17	11/14/2011	0	1,062
18	11/21/2011	3	1,065

Note:

All quantities are reported in gallons.

US EPA ARCHIVE DOCUMENT

TABLE 4-2. GROUNDWATER EXTRACTION RATE AND PRODUCTION WELL PROD_25 FLUID LEVELS
SECOND 2011 SEMIANNUAL MONITORING EVENT
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Date	Depth to LNAPL (feet)	Depth to Water (feet)	Extraction Rate (gpm)
8/18/2011			400
8/19/2011			400
8/20/2011			400
8/21/2011			400
8/22/2011			400
8/23/2011			400
8/24/2011			400
8/25/2011			400
8/26/2011			400
8/27/2011			400
8/28/2011			400
8/29/2011	26.69	26.76	400
8/30/2011			400
8/31/2011			400
9/1/2011			1,010
9/2/2011			1,000
9/3/2011			1,100
9/4/2011			1,100
9/5/2011			1,100
9/6/2011			1,100
9/7/2011			1,130
9/8/2011			1,250
9/9/2011	31.42	31.51	1,250
9/10/2011			1,250
9/11/2011			1,250
9/12/2011			1,490
9/13/2011	30.15	30.21	1,700
9/14/2011			1,700
9/15/2011			1,925
9/16/2011	TRACE	34.26	2,040
9/17/2011			2,220
9/18/2011			2,220
9/19/2011			2,220
9/20/2011	35.73	35.93	2,350
9/21/2011			2,520
9/22/2011			2,560
9/23/2011	36.71	36.81	2,560
9/24/2011			2,560
9/25/2011			2,560
9/26/2011			2,590
9/27/2011			2,580
9/28/2011	35.36	35.61	2,590
9/29/2011	35.11	35.32	2,600

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TABLE 4-2. GROUNDWATER EXTRACTION RATE AND PRODUCTION WELL PROD_25 FLUID LEVELS
SECOND 2011 SEMIANNUAL MONITORING EVENT
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Date	Depth to LNAPL (feet)	Depth to Water (feet)	Extraction Rate (gpm)
9/30/2011			2,590
10/1/2011			2,590
10/2/2011			2,590
10/3/2011			2,590
10/4/2011			2,600
10/5/2011			2,600
10/6/2011			2,600
10/7/2011	TRACE	35.53	2,600
10/8/2011			2,580
10/9/2011			2,580
10/10/2011			2,580
10/11/2011			2,580
10/12/2011	36.00	36.10	2,530
10/13/2011			2,530
10/14/2011			2,530
10/15/2011			2,530
10/16/2011			2,530
10/17/2011	36.44	36.60	2,530
10/18/2011			2,530
10/19/2011			2,530
10/20/2011			2,530
10/21/2011			2,530
10/22/2011			2,530
10/23/2011			2,530
10/24/2011	34.89	35.08	2,530
10/25/2011			2,530
10/26/2011			2,530
10/27/2011			2,530
10/28/2011	35.44	35.64	2,530
10/29/2011			2,530
10/30/2011			2,530
10/31/2011			2,530
11/1/2011	35.11	35.26	2,520
11/2/2011			2,520
11/3/2011			2,520
11/4/2011	34.98	35.07	2,520
11/5/2011			2,520
11/6/2011			2,520

Notes:

gpm - gallons per minute

ND - Not detected

NR - Not recordable due to field conditions

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TABLE 4-3. LNAPL RECOVERY EFFICIENCY COMPARISON
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Production Well	High-Grade Recovery Area	High-Grade Pumping Start Date	High-Grade Pumping End Date	Cumulative LNAPL Recovered (gallons)	Average Daily LNAPL Recovery Rate (gpd)	Average Daily Groundwater Extraction Rate (gpd)	LNAPL Removal Efficiency (gallons/mega-gallon)
PROD_19	Southwest	7/11/07	12/14/07	67,808	435	2,667,720	163
PROD_20	Southwest	8/19/09	11/30/09	24,015	233	4,108,065	57
PROD_24	Southwest	11/29/10	1/24/11	354	9.3	1,420,295	6.6
PROD_25	Central	8/10/10	2/28/11	143,677	855	3,060,094	279
PROD_25	Central	8/18/11	10/30/11	1,065	15	3,067,890	4.8

Notes:

gpd - gallons per day

gpm - gallons per minute

LNAPL Removal Efficiency - gallons of LNAPL recovered per million gallons of groundwater extracted.

TABLE 4-4. SUMMARY OF HSVE OPERATION AND ORGANIC CARBON RECOVERY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Year	Days of Operation Line No. 1	Line No. 2	Line No. 3	Cumulative Days of Operation[1]	Organic Carbon Recovered (lbs)	Average Mass Removal Rate (lbs/day)
1999	38	0	0	38	120,000	3,158
2000	218	0	0	218	135,000	619
2001	30	29	198	253	42,500	168
2002	27	20	87	122	58,000	475
2003	0	0	9	9	2,200	244
2004	0	44	0	44	22,200	505
2005	33	42	40	55	14,500	264
2006	1	3	34	35	24,300	694
2007	70	17	85	164	78,850	481
2008	0	0	0	0	0	0
2009	23	43	28	63	34,000	540
2010	50	25	112	183	62,990	344
2011	0	37	29	37	5,567	150
Total	490	260	622	1,221	594,540	487

Notes:

[1] - Multiple lines may be operated simultaneously during HSVE system operation. The cumulative days of operation represents the number of days the system was operating and not the total operation summed from operation of each individual line

lbs - pounds

lbs/day - pounds per day

TABLE 4-5. 2011 HSVE OPERATIONAL MONITORING DATA
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

			HSVE LINE 1							HSVE LINE 2							HSVE LINE 3							
Date	Time	Flow (scfm)	Vacuum (in-H_2O)	CH_4 (%)	CO_2 (%)	O_2 (%)	LEL (%)	Total Organic Vapor (ppm)	Lab Samples Collected (Yes/No)	Vacuum (in-H_2O)	CH_4 (%)	CO_2 (%)	O_2 (%)	LEL (%)	Total Organic Vapor (ppm)	Lab Samples Collected (Yes/No)	Vacuum (in-H_2O)	CH_4 (%)	CO_2 (%)	O_2 (%)	LEL (%)	Total Organic Vapor (ppm)	Lab Samples Collected (Yes/No)	Comments
9/14/11	10:45AM	1435									0.3	1.7	18.8	8.0	153	N		2.3	3.2	13.5	40.0	145	N	Line 3 @50% Line 2 @35%
9/15/11	1:00PM	1345									0.4	2.3	18.4	7.0	140	N		0.9	2.3	16.8	19.0	248	N	Line 2 @28%, Line 3 @85%
9/20/11	11:00AM	1280															60.00	0.5	2.2	18.6	10.0	193	Y	
9/28/11	1:10PM	1150									0.2	2.1	18.7	5.0	143	N		0.3	2.7	17.3	6.0	98	N	Line 2 @30% Line 3 @85%
9/30/11	1:10PM	1210									0.2	2.3	18.2	5.0	119	N		0.2	2.4	17.9	5.0	88	N	Line 2 @30% Line 3 @85%
10/3/11	1:15PM	1580								57.00	0.2	2.0	18.1	4.0	95	N								Line 2 on by itself @11:30AM Line 3 off
10/14/11	8:30AM	1550								52.00	0.1	1.0	19.9	3.0	78	Y								
10/18/11	10:00AM	1525								50.00	0.2	1.1	19.6	4.0	40	N								
10/20/11	1:50PM	1550									0.1	1.1	19.8	3.0	78	N		0.1	1.9	17.5	1.0	25	N	Line2 @55% Line 3 @65%
11/1/11	2:00PM	NA																						System Shut Down

Notes:
CH_4 - methane
CO_2 - carbon dioxide
in-H_2O- inches of water
LEL - lower explosive limit
O_2 - oxygen
ppm - parts per million
scfm - standard cubic feet per minute

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TABLE 4-6. 2011 HSVE INFLUENT AND EFFLUENT MONITORING SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

		September		October		Average	
		Influent	Effluent	Influent	Effluent	Influent	Effluent
Benzene	$\mu g/m^3$	330	420	135	86.5	475	201
Toluene	$\mu g/m^3$	ND(63)	150	137	66.5	275	78
Ethylbenzene	$\mu g/m^3$	ND(73)	ND(15)	ND(84)	ND(33.9)	317	ND(19.4)
m,p-Xylene	$\mu g/m^3$	ND(73)	41	ND(108)	71.5	ND(303)	37
o-Xylene	$\mu g/m^3$	ND(73)	ND(15)	ND(84)	46.9	ND(297)	23
NMOC	$\mu g/m^3$	1,300,000	68,000	375,000	70,500	1,186,250	51,625
Methane	%	0.079	0.049	0.0037	0.00845	0.046	0.030
Flow Rate	cfm	1280		1523		1,459	

								2011 Totals	
								Influent	Effluent
Organic	lbs/hr	8.9	2.0	2.3	0.75	8.0	1.4		
Compound	lbs/day	215	48.1	55	17.9	191	34		
	tons	1.9	0.43	0.85	0.28	2.4	0.41	2.8	0.71

Notes:
2011 totals assume continuous operation from 9/13/11 through 11/1/11.
NMOC - Non-methane organic carbon.
ND - non detect concentration.
For purposes of calculating operational averages, the laboratory detection limit was used when the analyte was not detected (ND) in one or more of the samples.

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TABLE 5-1. GULF PARK GROUNDWATER ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING EVENT
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
GPW-1I	12/14/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
Dup	12/14/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	12/18/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/23/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/25/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
Dup	6/25/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
	7/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
GPW-1S	12/14/06	0.0009 J	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/23/08	0.001 J	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/25/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
Dup	6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
	7/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	0.0011	ND(0.00051)	ND(0.00024)	ND(0.0012)
GPW-2I	12/18/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	0.0163
	12/19/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/23/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/23/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/09/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
Dup	6/09/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	7/06/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)

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TABLE 5-1. GULF PARK GROUNDWATER ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING EVENT
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
GPW-2S	12/18/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	0.0171
	12/19/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/23/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/23/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
	7/06/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
GPW-3I	12/13/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	12/20/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/25/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/25/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/10/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	7/06/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
GPW-3S	12/13/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	12/20/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/25/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
Dup	6/25/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/25/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/10/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	7/05/11	--	--	--	--	--	ND(0.00024)	ND(0.0012)
	7/06/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	--	--
GPW-4S	12/14/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	12/19/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/25/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/24/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
Dup	6/24/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
	7/07/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)

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TABLE 5-1. GULF PARK GROUNDWATER ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING EVENT
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID		Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
GPW-5S		12/12/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
		12/21/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
		6/25/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
		6/24/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
		7/07/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
TH-1I		12/15/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
		12/20/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
		6/26/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
		6/23/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/10/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
		7/07/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
TH-1S		12/15/06	0.022	0.29	0.008	0.28	ND(0.0008)	--	ND(0.0069)
		4/09/07	0.061	0.62	0.028	1	ND(0.002)	--	0.0176
		12/20/07	0.012	0.048	0.002	0.012	ND(0.0008)	--	ND(0.0069)
	Dup	12/20/07	0.012	0.045	0.002	0.011	ND(0.0008)	--	--
		6/26/08	0.074	1	0.045	1.6	ND(0.0008)	0.0118	ND(0.0069)
		6/23/09	0.027	0.4	0.015	0.32	ND(0.0008)	ND(0.0072)	ND(0.0069)
		6/10/10	0.023	0.44	0.015	0.41	ND(0.0008)	ND(0.0098)	ND(0.0069)
		7/07/11	0.054	1.1	0.034	0.84	ND(0.00051)	ND(0.00024)	ND(0.0012)
	Dup	7/07/11	0.056	1.1	0.035	0.83	ND(0.00051)	ND(0.00024)	ND(0.0012)
TH-2		12/12/06	0.003 J	0.16	0.029	0.21	ND(0.0008)	--	ND(0.0069)
		4/09/07	0.004 J	0.15	0.019	0.44	ND(0.0008)	--	0.0135 J
		12/18/07	0.012	0.002	0.005	0.046	ND(0.0008)	--	ND(0.0069)
		6/26/08	0.003 J	0.3	0.021	0.89	ND(0.0008)	ND(0.0102)	ND(0.0069)
		6/24/09	0.021	0.066	0.012	0.34	ND(0.0008)	0.0129 J	ND(0.0069)
	Dup	6/24/09	--	--	--	--	--	0.0127 J	ND(0.0069)
		6/08/10	0.002 J	0.043	0.01	0.33	ND(0.0008)	0.008 J	ND(0.0069)
		7/13/11	ND(0.00051)	0.53	0.021	1.9	ND(0.00051)	ND(0.00024)	ND(0.0012)

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TABLE 5-1. GULF PARK GROUNDWATER ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING EVENT
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
TH-3	12/12/06	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	12/21/07	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	--	ND(0.0069)
	6/27/08	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0102)	ND(0.0069)
	6/23/09	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072)	ND(0.0069)
	6/08/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0072) J	ND(0.0069)
	7/07/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)

Notes:

The method detection limit was used as the reporting limit.

-- - Not analyzed

Dup - Duplicate sample

J - Estimated concentration

JB - Estimated concentration due to detection of analyte within the method blank.

mg/L - milligram per liter

ND - Not detected at the indicated laboratory reporting limit or the method detection limit.

TABLE 5-2. GULF PARK DISSOLVED PHASE MONITORED NATURAL ATTENUATION ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Oxygen Demand (mg/L)	Methane (mg/L)	Nitrogen (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate (mg/L)	Nitrogen, Nitrite (mg/L)	Sulfate (mg/L)	Total Sulfide (mg/L)	Total Organic Carbon (mg/L)	Iron, Total (mg/L)	Iron, Ferrous Total (mg/L)	Iron, Ferric Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)
GPW-1I	4/28/98	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/02	--	--	--	--	--	--	--	--	--	--	--	--	0.0048	--
	11/21/03	--	--	--	--	--	--	--	--	--	--	1	--	--	--
	11/17/04	ND(2.1)	ND(0.002)	--	--	1.6	0.016	48.7	ND(0.022)	1.8	ND(0.0495)	ND(0.008)	ND(0.05)	0.0017	0.0025
	11/17/05	2.4	0.03	--	ND(0.11)	1.4	0.021	51.4	ND(0.022)	1.2	ND(0.0378)	ND(0.008)	ND(0.038)	0.0045	0.0032
	12/14/06	ND(2.6)	0.03	ND(0.5)	ND(0.2)	1.1	ND(0.015)	49	ND(0.054)	ND(1)	0.122 J	0.06 J	0.063 J	--	0.0068
	12/18/07	ND(12.8)	0.0028	ND(0.5)	ND(0.2)	1.1	ND(0.015)	45.9	ND(0.054)	ND(1)	0.195	0.15	ND(0.052)	0.0076	0.0115
GPW-1S	4/25/95	41	--	--	--	3	--	60	--	--	4.88	--	--	0.388	0.478
	2/22/96	ND	--	--	--	0.02	--	6	--	--	13.1	--	--	0.645	0.601
	10/30/96	55	--	--	--	ND	--	ND	--	--	31.7	--	--	0.634	0.997
	5/06/97	--	--	--	--	2.71	--	48	--	--	1.2	--	--	0.335	0.335
	11/13/97	--	--	--	--	0.02	--	ND	--	--	14.7	--	--	0.485	0.542
	4/29/98	ND	--	--	--	0.75	--	34	--	--	11.5	--	--	0.56	0.59
	11/03/98	--	--	--	--	ND	--	8.8	--	--	11.6	--	--	0.5	0.46
	4/21/99	--	--	--	--	0.11	--	61.4	--	--	10	--	--	0.58	0.6
	11/04/99	--	--	--	--	ND	--	18	--	--	11	--	--	0.49	0.5
	4/26/00	--	--	--	--	0.6	--	28.7	--	--	0.25	--	--	1.1	1.1
	4/26/00	--	--	--	--	ND	--	147	--	--	7	--	--	0.86	0.9
	11/15/01	--	--	--	--	ND	--	17.9	--	--	3.66	--	--	0.85	0.922
	5/22/02	--	--	--	--	ND	--	ND	--	--	4.13	--	--	0.887	0.937
	11/19/02	--	--	--	--	ND	0.0088	60.2	--	--	5.94	--	--	1.01	0.972
	11/21/03	--	--	--	--	--	--	--	--	--	--	10	--	--	--
	11/17/04	11.6	1.8	--	--	ND(0.04)	ND(0.015)	1.8	ND(0.022)	4.9	13.1	13.9	ND(0.4)	0.761	1.02
	11/17/05	4	0.11	--	ND(0.11)	3.2	ND(0.015)	40.2	ND(0.022)	2.4	0.0515	0.046	ND(0.038)	0.402	0.431
	12/14/06	9.8	0.25	ND(0.5)	0.32 J	ND(0.04)	ND(0.015)	32.1	ND(0.054)	2.9	4.04	4.1	ND(0.16)	--	0.675
	6/25/09	ND(12.8)	0.24	--	0.72	ND(0.04)	ND(0.015)	10 J	--	2.4	1.34	1.2 J	0.13 J	0.526	0.533
	6/08/10	--	0.3	--	ND(0.4)	ND(0.04)	ND(0.015)	4.6 J	ND(0.054)	2.7	2.31	2.2 J	0.11 J	0.609	0.612
	7/13/11	5	0.25	--	--	ND(0.0045)	ND(0.0061)	26	ND(0.78)	3.4	--	1.5	ND(0.00097)	0.47	0.48
GPW-2I	4/29/98	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/22/02	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
	11/19/03	--	--	--	--	--	--	--	--	--	--	0	--	--	--
	11/17/04	3.2	ND(0.002)	--	--	5.4	ND(0.015)	41.5	ND(0.022)	2.3	ND(0.0495)	0.012	ND(0.05)	0.0151	0.0016
	11/16/05	8.3	0.067	--	ND(0.11)	2.1	ND(0.015)	41.7	ND(0.022)	1.5	ND(0.0378)	0.012	ND(0.038)	ND(0.00096)	0.0032
	12/18/06	16.8	0.0049 J	ND(0.5) UJ	ND(0.2)	5.4	ND(0.015)	48.2	ND(0.054)	1.2 J	ND(0.0522)	ND(0.008)	ND(0.052)	--	0.0011 J
	12/19/07	16.2	ND(0.002)	ND(0.5)	ND(0.2)	4.4	ND(0.015)	46.8	ND(0.054)	ND(1)	ND(0.0522)	0.065	ND(0.052)	0.0033	0.0042
GPW-2S	4/25/95	27	--	--	--	0.95	--	50	--	--	3.64	--	--	0.554	0.594
	2/22/96	ND	--	--	--	1.42	--	41	--	--	24.5	--	--	1.04	1.13
	10/30/96	21	--	--	--	0.06	--	21.3	--	--	12.2	--	--	0.668	0.779
	5/06/97	--	--	--	--	1.98	--	75	--	--	0.7	--	--	0.662	0.749
	11/14/97	--	--	--	--	0.03	--	4	--	--	11.4	--	--	0.769	0.809
	4/29/98	ND	--	--	--	0.017	--	34.6	--	--	2.3	--	--	0.98	1
	11/02/98	--	--	--	--	0.041	--	49.6	--	--	4.8	--	--	0.81	0.81
	4/20/99	--	--	--	--	2.3	--	57.9	--	--	0.74	--	--	0.71	0.67
	11/04/99	--	--	--	--	0.09	--	41	--	--	6.4	--	--	0.84	0.95
	11/15/01	--	--	--	--	0.196	--	16.6	--	--	0.778	--	--	1.06	1.02
	5/22/02	--	--	--	--	1.2	--	37	--	--	0.122	--	--	1.05	1.11
	11/19/02	--	--	--	--	1.62	0.03	40.7	--	--	0.989	--	--	0.996	1.06

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TABLE 5-2. GULF PARK DISSOLVED PHASE MONITORED NATURAL ATTENUATION ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Oxygen Demand (mg/L)	Methane (mg/L)	Nitrogen (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate (mg/L)	Nitrogen, Nitrite (mg/L)	Sulfate (mg/L)	Total Sulfide (mg/L)	Total Organic Carbon (mg/L)	Iron, Total (mg/L)	Iron, Ferrous Total (mg/L)	Iron, Ferric Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)
GPW-2S	11/19/03	--	--	--	--	--	--	--	--	--	--	0	--	--	--
	11/17/04	20.3	0.23	--	--	0.98	ND(0.015)	31.8	ND(0.022)	2.6	15.5	2	13.5	0.904	1.17
	11/16/05	ND(2.1)	0.0046	--	ND(0.11)	2.6	0.034	35.8	ND(0.022)	1.8	0.522	0.59	ND(0.038)	0.916	0.944
	12/18/06	3.2 J	0.0027 J	ND(0.5) UJ	ND(0.2)	1.9	ND(0.015)	45.1	ND(0.054)	1.3 J	0.202	0.031 J	0.17 J	--	0.931
	12/19/07	ND(12.8)	ND(0.002)	ND(0.5)	ND(0.2)	5.2	ND(0.015)	53.6	ND(0.054)	1.5	ND(0.0522)	ND(0.008)	ND(0.052)	0.0117	0.0305
	6/23/09	15.3 J	0.078	--	ND(0.2)	1.4	ND(0.015)	33.8 J	--	4.1	0.0526 J	0.026 J	ND(0.052)	0.507	0.558
	6/08/10	--	0.26	--	ND(0.2)	0.9	ND(0.015)	34.1	ND(0.054)	1.2	0.591	0.056 J	0.53	0.551	0.838
	7/06/11	ND(5)	ND(0.00083)	--	--	2.3	ND(0.0061)	43	ND(0.78)	0.81	--	ND(0.00097)	ND(0.00097)	0.81	1.1
GPW-3I	4/24/95	14	--	--	--	3.2	--	56	--	--	1.8	--	--	0.011	0.048
	2/21/96	ND	--	--	--	4.52	--	50	--	--	7.81	--	--	ND	0.122
	10/28/96	13	--	--	--	4.41	--	56	--	--	0.14	--	--	ND	0.007
	5/05/97	--	--	--	--	3.6	--	44	--	--	0.88	--	--	ND	0.019
	11/13/97	--	--	--	--	4.48	--	15	--	--	ND	--	--	ND	0.005
	4/28/98	ND	--	--	--	5.3	--	31.1	--	--	0.65	--	--	ND	0.014
	11/03/98	--	--	--	--	5.9	--	60.9	--	--	0.51	--	--	ND	0.011
	4/21/99	--	--	--	--	3.1	--	45.1	--	--	0.68	--	--	ND	0.012
	11/04/99	--	--	--	--	5.2	--	44.3	--	--	0.26	--	--	ND	0.0086
	4/25/00	--	--	--	--	5.5	--	64.7	--	--	4.1	--	--	0.011	0.062
	11/14/01	--	--	--	--	1.29	--	31.4	--	--	--	--	--	--	--
	5/21/02	--	--	--	--	--	--	--	--	--	--	--	--	0.00066	--
	11/21/03	--	--	--	--	--	--	--	--	--	--	4	--	--	--
	11/18/04	ND(2.1)	ND(0.002)	--	--	3.6	ND(0.015)	46.3	ND(0.022)	1.8	ND(0.0495)	ND(0.008)	ND(0.05)	0.0042	0.0015
	11/17/05	ND(2.1)	0.026	--	ND(0.11)	3.1	ND(0.015)	44.4	ND(0.022)	1.4	ND(0.0378)	ND(0.008)	ND(0.038)	ND(0.00096)	ND(0.00096)
	12/13/06	3.1 J	0.024	ND(0.5)	ND(0.2)	2.4	ND(0.015)	43.9	ND(0.054)	ND(1)	ND(0.0522)	0.018 J	ND(0.052)	--	0.0013 J
	12/20/07	ND(12.8)	ND(0.002)	ND(0.5)	ND(0.2)	2.2	ND(0.015)	44	ND(0.054)	ND(1)	ND(0.0522)	ND(0.008)	ND(0.052)	ND(0.00084)	ND(0.00084)
GPW-3S	4/24/95	73	--	--	--	0.06	--	56	--	--	12.9	--	--	1.07	1.55
	2/21/96	19	--	--	--	0.1	--	48	--	--	33	--	--	0.534	1.1
	10/29/96	ND	--	--	--	0.99	--	64	--	--	2.28	--	--	0.855	1.04
	5/05/97	--	--	--	--	0.02	--	44	--	--	10.6	--	--	1.12	1.25
	11/13/97	--	--	--	--	0.13	--	22	--	--	2.96	--	--	0.962	1.08
	4/28/98	22.2	--	--	--	18	--	62.8	--	--	0.7	--	--	0.72	0.33
	11/03/98	--	--	--	--	0.45	--	67.8	--	--	2.8	--	--	0.89	0.9
	4/21/99	--	--	--	--	0.87	--	108	--	--	1.5	--	--	1.2	1.2
	11/04/99	--	--	--	--	0.2	--	379	--	--	13.3	--	--	3.3	3.5
	4/25/00	--	--	--	--	6.9	--	80.9	--	--	3.8	--	--	1.1	1
	11/14/01	--	--	--	--	1.52	--	39.7	--	--	0.869	--	--	0.544	0.551
	5/20/02	--	--	--	--	6.2	--	39.3	--	--	0.358	--	--	0.274	0.289
	11/19/02	--	--	--	--	1.41	0.02	39.6	--	--	0.667	--	--	0.959	0.956
	11/21/03	--	--	--	--	--	--	--	--	--	--	0	--	--	--
	11/18/04	ND(2.1)	0.023	--	--	0.66	0.019	37.3	ND(0.022)	1.9	0.236	0.2	ND(0.05)	0.907	0.912
.	11/17/05	5.1	0.039	--	ND(0.11)	1.8	ND(0.015)	30.1	ND(0.022)	2.2	0.36	0.3	0.064	0.189	0.212
	12/13/06	3.5 J	0.045	ND(0.5)	ND(0.2)	7.1	ND(0.015)	37.4	ND(0.054)	1.2 J	ND(0.0522)	0.076 J	ND(0.052)	--	0.364
	12/20/07	46.3	0.05	ND(0.5)	ND(0.2)	1	ND(0.015)	51.4	ND(0.054)	1.5	ND(0.0522)	ND(0.008)	ND(0.052)	0.199	0.264
	6/25/09	ND(12.8)	0.035	--	ND(0.2)	0.66	ND(0.015)	30.1 J	--	1	0.355	0.3 J	0.053 J	0.487	0.494
	6/10/10	--	0.021	--	ND(0.4)	0.24	ND(0.015)	28.6	ND(0.054)	1	0.225	0.2 J	ND(0.052)	0.363	0.37
	7/05/11	ND(5)	0.032	--	--	3.1	ND(0.0061)	ND(0.02)	ND(0.78)	0.74	--	ND(0.00097)	0.37	0.36	0.47

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TABLE 5-2. GULF PARK DISSOLVED PHASE MONITORED NATURAL ATTENUATION ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Oxygen Demand (mg/L)	Methane (mg/L)	Nitrogen (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate (mg/L)	Nitrogen, Nitrite (mg/L)	Sulfate (mg/L)	Total Sulfide (mg/L)	Total Organic Carbon (mg/L)	Iron, Total (mg/L)	Iron, Ferrous Total (mg/L)	Iron, Ferric Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)
GPW-4S	10/29/96	49	--	--	--	ND	--	29	--	--	11.3	--	--	0.716	1.61
	5/06/97	--	--	--	--	1.04	--	66	--	--	5.26	--	--	0.455	0.522
	11/13/97	--	--	--	--	0.02	--	6	--	--	11.1	--	--	0.498	0.871
	4/28/98	ND	--	--	--	5.1	--	39	--	--	0.71	--	--	0.18	0.18
	11/03/98	--	--	--	--	ND	--	20.1	--	--	7.7	--	--	0.45	0.58
	4/20/99	--	--	--	--	0.039	--	109	--	--	6.3	--	--	0.72	0.84
	11/04/99	--	--	--	--	0.049	--	13.9	--	--	7.8	--	--	0.38	0.49
	4/26/00	--	--	--	--	2.1	--	95.6	--	--	1.4	--	--	0.47	0.34
	11/15/01	--	--	--	--	0.238	--	11.6	--	--	5.01	--	--	0.546	0.564
	5/20/02	--	--	--	--	3.67	--	21.1	--	--	0.867	--	--	0.217	0.228
	11/18/02	--	--	--	--	0.38	0.0088	6.3	--	--	3.36	--	--	0.648	0.65
	11/20/03	--	--	--	--	--	--	--	--	--	--	6	--	--	--
	11/17/04	6.8	2.3	--	--	ND(0.04)	ND(0.015)	6.6	0.031	2.7	5.27	4.7	0.53	0.714	0.695
	11/17/05	6.3	2.1	--	ND(0.11)	ND(0.04)	ND(0.015)	5	ND(0.022)	2.6	5.64	5.2	0.48	0.831	0.87
	12/14/06	5.1 J	1.5	ND(0.5)	ND(0.2)	2	ND(0.015)	30.4	ND(0.054)	1.6 J	0.574	0.57	ND(0.052)	--	0.387
	12/19/07	ND(12.8)	0.76	ND(0.5)	ND(0.2)	3.4	0.021	37	ND(0.054)	1	0.0905	0.12	ND(0.052)	0.0951	0.105
	6/24/09	15.3 J	2.5	--	0.27 J	0.078 J	ND(0.015)	9.4	--	1.3	0.8	0.78 J	ND(0.052)	0.53	0.544
	6/08/10	--	0.39	--	0.3 J	ND(0.04)	ND(0.015)	15.8	ND(0.054)	1.3	3.47	3.6 J	ND(0.2)	0.747	0.754
	7/07/11	ND(5)	0.91	--	--	4.9	ND(0.0061)	23	ND(0.78)	1.2	--	ND(0.00097)	ND(0.00097)	0.17	0.17
GPW-5S	2/21/96	16	--	--	--	ND	--	43	--	--	78.3	--	--	0.777	2.8
	10/29/96	57	--	--	--	0.03	--	271	--	--	5.91	--	--	0.786	1.93
	5/05/97	--	--	--	--	0.19	--	52	--	--	2.34	--	--	1.11	1.07
	11/13/97	--	--	--	--	0.03	--	78	--	--	1.86	--	--	0.983	1.23
	4/28/98	ND	--	--	--	6.9	--	94.4	--	--	0.059	--	--	0.16	0.065
	11/03/98	--	--	--	--	0.15	--	179	--	--	0.49	--	--	1.2	1.3
	4/20/99	--	--	--	--	0.14	--	78.5	--	--	1.2	--	--	1.5	1.2
	11/04/99	--	--	--	--	0.022	--	16.4	--	--	1.9	--	--	1.6	2.1
	4/25/00	--	--	--	--	0.38	--	195	--	--	1.1	--	--	1.7	1.6
	11/15/01	--	--	--	--	0.675	--	26.7	--	--	0.437	--	--	0.963	1.05
	5/20/02	--	--	--	--	0.621	--	39.2	--	--	1.19	--	--	0.988	1.03
	11/18/02	--	--	--	--	0.07	ND	14.5	--	--	0.739	--	--	0.829	0.833
	11/20/03	--	--	--	--	--	--	--	--	--	--	0	--	--	--
	11/17/04	4	0.047	--	--	0.087	ND(0.015)	14.1	0.58	2.5	0.322	0.36	ND(0.05)	0.794	0.793
	11/16/05	5.5	0.22	--	ND(0.11)	ND(0.04)	ND(0.015)	8.8	0.039	2.5	0.722	0.73	ND(0.038)	0.688	0.76
	12/12/06	2.8 J	0.0043 J	ND(0.5) UJ	ND(0.2)	0.58	ND(0.015)	52.1 J	0.14 J	1.3 J	--	0.11	--	--	--
	12/21/07	ND(12.8)	ND(0.002)	ND(0.5) UJ	ND(0.2)	4.2	ND(0.015)	92.3	ND(0.054)	ND(1)	ND(0.0522)	ND(0.008)	ND(0.052)	ND(0.00084)	ND(0.00084)
	6/24/09	19.9 J	0.011 J	--	0.21 J	0.44	ND(0.015)	29.7	--	1	0.171 J	0.15 J	ND(0.052)	0.448	0.466
	6/08/10	--	0.0079 J	--	ND(0.2)	0.041 J	ND(0.015)	32.5	0.077 J	1.1	0.188 J	0.21 J	ND(0.052)	0.753	0.759
	7/07/11	ND(5)	ND(0.00083)	--	--	3	ND(0.0061)	52	ND(0.78)	1	--	ND(0.00097)	ND(0.00097)	0.51	0.52
TH-1I	4/28/98	ND	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/21/02	--	--	--	--	--	--	--	--	--	--	--	--	0.00071	--
	11/20/03	--	--	--	--	--	--	--	--	--	--	0	--	--	--
	11/17/04	ND(2.1)	ND(0.002)	--	--	3.9	ND(0.015)	46.2	0.035	2	ND(0.0495)	ND(0.008)	ND(0.05)	ND(0.00084)	ND(0.00084)
	11/17/05	ND(2.1)	ND(0.002)	--	ND(0.11)	3.6	ND(0.015)	46.8	ND(0.022)	1.2	ND(0.0378)	ND(0.008)	ND(0.038)	ND(0.00096)	ND(0.00096)
	12/15/06	4.4 J	ND(0.002)	ND(0.5)	ND(0.2) UJ	4	ND(0.015) R	50.4	ND(0.054)	1 J	ND(0.0522)	ND(0.008)	ND(0.052)	--	ND(0.00036)
	12/20/07	ND(12.8)	ND(0.002)	ND(0.5)	ND(0.2)	4.3	ND(0.015)	49.2	ND(0.054)	ND(1)	ND(0.0522)	0.0095	ND(0.052)	ND(0.00084)	ND(0.00084)

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TABLE 5-2. GULF PARK DISSOLVED PHASE MONITORED NATURAL ATTENUATION ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Oxygen Demand (mg/L)	Methane (mg/L)	Nitrogen (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate (mg/L)	Nitrogen, Nitrite (mg/L)	Sulfate (mg/L)	Total Sulfide (mg/L)	Total Organic Carbon (mg/L)	Iron, Total (mg/L)	Iron, Ferrous Total (mg/L)	Iron, Ferric Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)
TH-1S	4/24/95	75	--	--	--	ND	--	3	--	--	6.8	--	--	0.465	0.483
	2/22/96	ND	--	--	--	0.01	--	65	--	--	15.5	--	--	0.433	0.501
	10/29/96	23	--	--	--	ND	--	2.06	--	--	2.7	--	--	0.428	0.482
	5/06/97	--	--	--	--	0.09	--	16	--	--	5.62	--	--	0.383	0.408
	11/14/97	--	--	--	--	0.02	--	4	--	--	1.9	--	--	0.437	0.51
	4/29/98	ND	--	--	--	0.024	--	11.6	--	--	20.2	--	--	0.66	0.69
	4/20/99	--	--	--	--	ND	--	10.9	--	--	5.4	--	--	0.51	0.5
	11/04/99	--	--	--	--	ND	--	9.8	--	--	2	--	--	0.58	0.63
	4/26/00	--	--	--	--	ND	--	25	--	--	16.8	--	--	0.71	0.75
	11/14/01	--	--	--	--	ND	--	7.4	--	--	13.4	--	--	0.725	0.757
	5/21/02	--	--	--	--	ND	--	29.6	--	--	10.4	--	--	0.626	0.686
	11/19/02	--	--	--	--	ND	0.0088	ND	--	--	25.6	--	--	0.934	0.972
	11/20/03	--	--	--	--	--	--	--	--	--	--	9	--	--	--
	11/17/04	6.4	0.26	--	--	ND(0.04)	ND(0.015)	13.3	0.13	2.5	2.76	2.8	ND(0.05)	0.44	0.452
	11/17/05	4.8	0.39	--	0.24	ND(0.04)	ND(0.015)	15.4	0.089	2.2	1.7	1.8	ND(0.04)	0.496	0.525
	12/15/06	18.8	0.43	0.76 J	0.46 J	ND(0.04)	ND(0.015) R	34.6	0.083 J	4.7	11.3	11.5	ND(0.4)	--	0.628
	12/20/07	25.5	0.55	ND(0.5)	ND(0.2)	ND(0.04)	ND(0.015)	241	0.16	3.8	6.35	6.4	ND(0.2)	1.22	1.26
	6/23/09	40.8 J	0.54	--	ND(0.2)	ND(0.04)	0.052	13.5 J	--	3.6	21.1	21.9 J	ND(1)	0.545	0.565
	6/10/10	--	1.2	--	0.78 J	ND(0.04)	ND(0.015)	17.2	0.12 J	2.9	24.2	23.2 J	1 J	0.549	0.558
	7/07/11	58	3.9	--	--	ND(0.0045)	ND(0.0061)	7.1	ND(0.78)	5.6	--	45	ND(0.00097)	0.76	0.75
TH-2	4/25/95	105	--	--	--	0.04	--	8	--	--	30.7	--	--	0.64	1.25
	2/22/96	41	--	--	--	0.01	--	5	--	--	21.8	--	--	0.391	0.744
	10/30/96	64	--	--	--	0.03	--	ND	--	--	33.2	--	--	0.342	1.37
	5/06/97	--	--	--	--	0.03	--	16	--	--	32.6	--	--	0.653	0.847
	11/14/97	--	--	--	--	0.08	--	ND	--	--	15.8	--	--	0.357	0.506
	4/29/98	ND	--	--	--	0.028	--	7.5	--	--	14.1	--	--	0.45	0.46
	11/02/98	--	--	--	--	ND	--	13.8	--	--	18.3	--	--	0.42	0.49
	4/20/99	--	--	--	--	ND	--	4.1	--	--	19.4	--	--	0.5	0.52
	11/04/99	--	--	--	--	0.024	--	7.4	--	--	17.5	--	--	0.38	0.63
	4/26/00	--	--	--	--	0.057	--	7	--	--	17.8	--	--	0.48	0.49
	11/14/01	--	--	--	--	ND	--	ND	--	--	14.6	--	--	0.41	0.46
	5/21/02	--	--	--	--	ND	--	ND	--	--	10.4	--	--	0.314	0.34
	11/19/02	--	--	--	--	ND	0.0088	ND	--	--	20.1	--	--	0.78	0.889
	11/20/03	--	--	--	--	--	--	--	--	--	--	10	--	--	--
	11/17/04	81.3	8.6	--	--	ND(0.04)	ND(0.015)	18	0.26	21.6	18.6	18.6	ND(0.4)	1.49	1.03
	11/16/05	16.3	1.1	--	0.71	ND(0.04)	ND(0.015)	ND(1.5)	0.06	3.8	9.35	10.1	ND(0.2)	0.349	0.366
	12/12/06	24	13	ND(0.5) UJ	ND(0.2)	ND(0.04)	ND(0.015)	13.1 J	ND(0.054)	4.5	9.13	9.3	ND(0.2)	--	0.325
	12/18/07	39.4	6.5	1.2	ND(0.2)	7	0.097	299	ND(0.054)	11.7	0.318	0.2	0.12	1.16	1.23
	6/24/09	38.4 J	7.7	--	0.72	ND(0.04)	ND(0.015)	80.4	--	6.2	5.46	5.5 J	ND(0.25)	0.828	0.854
	6/08/10	--	7.1	--	0.34 J	ND(0.04)	ND(0.015)	ND(1.5)	0.066 J	2.5	3.74	3.7 J	ND(0.2)	0.257	0.262
	7/13/11	18	4.1	--	--	ND(0.0045)	ND(0.0061)	3.9	ND(0.78)	3.7	--	2.1	ND(0.00097)	0.27	0.27

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TABLE 5-2. GULF PARK DISSOLVED PHASE MONITORED NATURAL ATTENUATION ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Oxygen Demand (mg/L)	Methane (mg/L)	Nitrogen (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate (mg/L)	Nitrogen, Nitrite (mg/L)	Sulfate (mg/L)	Total Sulfide (mg/L)	Total Organic Carbon (mg/L)	Iron, Total (mg/L)	Iron, Ferrous Total (mg/L)	Iron, Ferric Total (mg/L)	Manganese, Dissolved (mg/L)	Manganese, Total (mg/L)
TH-3	4/24/95	86	--	--	--	5.1	--	62	--	--	7.04	--	--	ND	0.323
	2/21/96	ND	--	--	--	6.81	--	55	--	--	22.7	--	--	0.017	0.838
	10/30/96	17	--	--	--	4.42	--	44	--	--	4.23	--	--	0.046	0.319
	5/05/97	--	--	--	--	5.3	--	63	--	--	8.28	--	--	0.106	0.183
	11/13/97	--	--	--	--	8.12	--	11	--	--	0.36	--	--	0.101	0.167
	4/28/98	ND	--	--	--	0.45	--	24.9	--	--	1.7	--	--	0.0005	0.034
	11/02/98	--	--	--	--	4.4	--	45.8	--	--	0.18	--	--	0.11	0.14
	4/20/99	--	--	--	--	4.3	--	42.3	--	--	1.5	--	--	0.0034	0.042
	11/04/99	--	--	--	--	3	--	45.9	--	--	0.12	--	--	0.017	0.034
	4/25/00	--	--	--	--	9	--	41.2	--	--	4.3	--	--	0.023	0.084
	11/14/01	--	--	--	--	3.78	--	33.9	--	--	0.186	--	--	0.0055	0.0059
	5/21/02	--	--	--	--	2.72	--	37.6	--	--	0.105	--	--	0.0222	0.0218
	11/18/02	--	--	--	--	3.96	ND	42.5	--	--	0.122	--	--	0.0027	0.0036
	11/19/03	--	--	--	--	--	--	--	--	--	--	0	--	--	--
	11/18/04	5.2	ND(0.002)	--	--	4.2	ND(0.015)	41	ND(0.022)	2.7	1.98	0.2	1.8	0.0348	0.0581
	11/17/05	2.4	ND(0.002)	--	0.24	2.3	ND(0.015)	38	ND(0.022)	1.9	ND(0.0378)	0.015	ND(0.038)	0.0036	0.0018
	12/12/06	5.9 J	0.0063	ND(0.5) UJ	ND(0.2)	2.1	0.018 J	153 J	ND(0.054)	2.5	0.153 J	0.021 J	0.13 J	--	0.0048 J
	12/21/07	ND(12.8)	ND(0.002)	ND(0.5) UJ	ND(0.2)	1.4	ND(0.015)	35.7	ND(0.054)	1.3	0.0684	0.019	ND(0.052)	0.0068	0.0219
	6/23/09	15.3 J	ND(0.005)	--	ND(0.2)	2.8	ND(0.015)	34.2 J	--	1.4	0.502	0.075 J	0.43	0.0043 J	0.0082
	6/08/10	--	ND(0.005)	--	ND(0.2)	1.7	ND(0.015)	34.3	ND(0.054)	1.1	0.0616 J	0.064 J	ND(0.01)	0.0047 J	0.008
	7/07/11	ND(5)	ND(0.00083)	--	--	5.1	ND(0.0061)	48	ND(0.78)	1.4	--	ND(0.00097)	ND(0.00097)	ND(0.00023)	ND(0.00023)

Notes:

The method detection limit was used as the reporting limit.

-- - Not analyzed

J - Estimated concentration

UJ - Estimated reporting limit

mg/L - milligram per liter

ND - Not detected at the indicated laboratory reporting limit or the method detection limit.

U* - The first result represents the laboratory reported concentration. The second result was evaluated to be undetected at the reported concentration during validation due to detection of the analyte within the method blank.

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TABLE 5-3. GULF PARK BARRIER WALL GROUNDWATER ANALYTICAL RESULTS SUMMARY
SECOND 2011 SEMIANNUAL MONITORING PERIOD
CHEVRON CINCINNATI FACILITY, HOOVEN, OHIO

Location ID	Date Sampled	Benzene (mg/L)	Ethyl-benzene (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)	Chlorobenzene (mg/L)	Arsenic, Dissolved (mg/L)	Lead, Dissolved (mg/L)
GPBW-1	6/10/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	7/13/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)
GPBW-2	6/09/10	ND(0.0005)	ND(0.0008)	ND(0.0007)	ND(0.0008)	ND(0.0008)	ND(0.0098)	ND(0.0069)
	7/05/11	ND(0.00051)	ND(0.00068)	ND(0.00048)	ND(0.00073)	ND(0.00051)	ND(0.00024)	ND(0.0012)

Notes:

The method detection limit was used as the reporting limit.

mg/L - milligram per liter

ND - Not detected at the indicated laboratory reporting limit or the method detection limit.