

Table E-3
Summary of Vapor Operating Data Collected from
SVE Unit 344
January 2011 - December 2012^a

Unit 344 (Well KAFB-106161) - Combined Engines E1 and E2									
Date	Operating Time (hours)	Average Flow Rate (scfm)	Total Mass Recovery (lb/period)	Total Mass Recovery (gal/period)	Average Influent Vapor Concentration (ppmv)	Influent Vapor Concentration (ppmv)	Note ^b	Propane Use ^c (gal/period)	Propane Recovery Ratio ^d (gal/gal)
1/31/2011	1,158	50	7,440	1,200	4,501			2,093	1.74
2/28/2011	1,165	50	7,039	1,135	5,356	3,830	L	2,182	1.92
3/31/2011	1,060	47	5,443	878	4,276			1,710	1.95
4/30/2011	1,030	52	5,773	931	4,829	7,530	F	1,731	1.86
5/31/2011	1,336	49	7,506	1,211	5,591	L=3636 / F=6330	L,F	2,441	2.02
6/30/2011	721	42	3,329	537	4,730	7,460	F	2,163	4.03
7/31/2011 ^(e)	1,101	50	5,253	847	4,702	L=3078 / F=5170	L,F	2,051	2.42
8/31/2011	968	53	3,398	548	4,001	5,630	F	2,088	3.81
9/30/2011	576	53	2,447	395	4,206	6,130	F	1,373	3.48
Oct 2011 - Mar 2012 ^(f)	System was not in operation								
Apr 2012 - Jun 2012	1,369	75	6,955	1,122	9,793	13,290	F	632	0.56
7/31/2012	539	79	7790	1256	8047			710	0.57
8/31/2012	567	97	7462	1204	6353			785	0.65
9/30/2012	675	101	4018	648	6427	7,760	F	665	1.03
10/31/2012	696	100	5827	940	4703			1,275	1.36
11/30/2012	549	94	3186	514	2717			1,150	2.24
12/31/2012	387	84	1330	210	4410	9,700	F	800	3.81
Total or Average 10/2012 - 12/2012	1,631	93	10,343	1,664	3,943			3,225	2.47
Total 3/2009 - 9/2012			379,777	61,254					
Cumulative Total			390,120	62,918					
Calculated Quarterly Biodegradation 10/2012 - 12/2012				1,387.70					

Notes:

- a. All operating values are based on RSI-ICE System PLC (computer program) technical data (except where noted for laboratory data).
- b. F = field VOC measurement, L = laboratory VOC measurement.
- c. Actual propane usage are based on data from AMERIGas Company (505-877-1010).
- d. Ratio = Propane used/NAPL-equivalent gallons recovered.
- e. Engine E2 was in operation but data was lost in the system computed program. Mass values were extrapolated from E1.
- f. System was shut down from October 2011 through March 2012 for the area radius of influence (ROI) and Pneulog well testing.

Abbreviations

- gal - gallon(s)
- ICE - Internal combustion engine
- KAFB - Kirtland Air Force Base
- lb - pound(s)
- NAPL - Non-aqueous phase liquid
- PLC - Programmable logic controller
- ppmv - parts per million by volume
- RSI - Remediation Service International
- scfm - standard cubic feet per minute
- SVE - Soil-vapor extraction
- VOC - Volatile organic compound