LLNL Livermore Site Fourth Quarter 2010 Self-Monitoring Report

The following is the fourth quarter 2010 self-monitoring data for the treatment facilities and Lake Haussmann at the Lawrence Livermore National Laboratory (LLNL) Livermore Site.

The volumes of ground water and soil vapor treated, and volatile organic compound (VOC) mass removed during the fourth quarter of 2010 are presented in Tables 1 and 2, respectively. An historical summary of VOC volume and mass removed are presented in Tables 3 and 4, respectively.

Attachment A presents results of ground water treatment facility and extraction well (ground water and soil vapor) VOC, chromium, bioassay, turbidity and chloride analyses (Tables A-1 through A-5). During the fourth quarter of 2010, all effluent sample analytical results were within acceptable discharge limits.

Self-monitoring reports for all treatment facilities are presented in Attachment B. Monthly volumes of ground water extracted are shown in Attachment B; however, instantaneous flow rates are not shown for wells that are now only used for sampling and are not continuously pumped. The monthly volume shown for these wells is the quantity of water evacuated for sampling purposes. Monitoring data for Lake Haussmann are presented in Attachment C.

New self-monitoring reports were included in this report for the ground water extraction and injection circulation cell constructed at TFD Helipad (TFD-HPD) as part of the *in situ* bioremediation (ISB) treatability test. Operation of the existing ground water and soil vapor treatment facilities, PTU10 and VES07, respectively, are on hold pending the results of the test.

A map showing Livermore Site treatment areas and treatment facility locations, and ground water elevation contour maps showing hydraulic capture zones for hydrostratigraphic units (HSUs) 1B, 2, 3A, 3B, 4, and 5, are presented in Attachment D. The contour maps for the individual HSUs are based on data collected during October 2010.

This work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, October through December 2010.

Treatment Area[a]	Month	Volume of ground water extracted (Kgal)[b]	Volume of vapor extracted (Kft^3)[b]
TFA	October	8,484	-
	November	10,388	-
	December	9,329	-
TFB	October	2,389	-
	November	2,398	-
	December	1,288	-
TFC	October	3,492	-
	November	3,412	-
	December	1,609	-
TFD	October	6,647	1,737
	November	6,354	1,641
	December	6,197	772
TFE	October	2,021	182
	November	2,066	0
	December	1,364	3
TFG	October	651	-
	November	698	-
	December	594	-
TFH	October	737	2,311
	November	676	2,281
	December	485	1,629
TOTAL[c]		71,279	10,556

[a] Totals include ground water and soil vapor extracted from the following facilities:
TFA area: TFA, TFA-E, TFA-W
TFB area: TFB
TFC area: TFC, TFC-E, TFC-SE
TFD area: TFD, TFD-E, TFD-HPD, TFD-S, TFD-SE, TFD-SS, TFD-W, VTFD-ETCS, VTFD-HPD, VTFD-HS
TFE area: TFE-E, TFE-HS, TFE-NW, TFE-SE, TFE-SW, TFE-W, VTFE-ELM, VTFE-HS
TFG area: TFG-1, TFG-N
TFH area: TF406, TF406-NW, TF518-N, TF518-PZ, TF5475-1, TF5475-2, TF5475-3, VTF406-HS, VTF511, VTF518-PZ, VTF5475
TFF started operation in February 1993 for fuel hydrocarbon remediation. In August 1995, the regulatory agencies agreed that the vadose zone remediation was complete, and in October 1996 a No Further Action status was granted for the ground water.

[b] Totals are derived from individual extraction wells shown in Attachment B.

[c] Rounded number.

Kft^3 = thousands of cubic feet.

Kgal = thousands of gallons.

Table 2. VOC mass removed at the Livermore Site, October through December 2010.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) [b]
TFA	1.2	-	1.2
TFB	0.6	-	0.6
TFC	1.0	-	1.0
TFD	9.6	0.9	10.5
TFE	1.7	0.04	1.7
TFG	0.2	-	0.2
TFH	0.4	6.8	7.2
TOTAL[b]	14.7	7.7	22.4

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through December 2010.

Treatment Area[a]	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Kft^3)
TFA	1,742	-
TFB	413	-
TFC	435	-
TFD	929	79,081
TFE	343	146,356
TFG	71	-
TFH	150	207,114
TOTAL[b]	4,083	432,551

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through December 2010.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg) [b]
TFA	202	-	202
TFB	77	-	77
TFC	98	-	98
TFD	810	90	900
TFE	208	145	353
TFG	11	-	11
TFH	34	1,201	1,235
TOTAL[b]	1,440	1,436	2,876

[a] Refer to Table 1 footnote for facilities in each treatment facility area.
[b] Rounded number.

Abbreviations for Tables 2, 3 and 4:
Kft^3 = thousands of cubic feet.
Kg = Kilograms.
Mgal = millions of gallons.
VOC = Volatile organic compound.

Attachment A

VOC, Chromium, Bioassay, Turbidity, and Chloride Analyses

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4	$CHCl_3$	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TFA													
TFA-I001	06-OCT-10	E601	<0.5	**1.1**	**0.74**	<0.5	**1.4**	<1	<0.5	**7.8**	<0.5	**0.78**	<0.5
TFA-I001	02-NOV-10	E601	<0.5	**0.93**	**0.69**	<0.5	**1.2**	<1	<0.5	**6.8**	<0.5	**0.7**	<0.5
TFA-I001	01-DEC-10	E601	<0.5	**1**	**0.94**	<0.5	**1.6**	<1	<0.5	**8.6**	<0.5	**0.81**	<0.5
TFA-E001	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E													
W-254	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**0.57**	<1	<0.5	**42**	<0.5	**1**	<0.5
STU06-I	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	**0.52**	<1	<0.5	**40**	<0.5	**1**	<0.5
STU06-I	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	**0.69**	<1	<0.5	**47**	<0.5	**1.3**	<0.5
STU06-E	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
STU06-E	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-W[a]													
W-404	12-OCT-10	E601	<0.5	<0.5	**1.4**	<0.5	**2.4**	<1	<0.5	**11**	<0.5	<0.5	<0.5
W-404	18-NOV-10	E601	<0.5	<0.5	**1.6**	<0.5	**2.5**	<1	<0.5	**9.6**	<0.5	**0.52**	<0.5
W-404	16-DEC-10	E601	<0.5	<0.5	**1.5**	<0.5	**2.8**	<1	<0.5	**10**	<0.5	<0.5	<0.5
TFA-W-E	12-OCT-10	E624	<1	<1	**1.4**	<1	**2.4**	<1	<1	**11**	<1	<0.5	<1
TFB													
TFB-I002	06-OCT-10	E601	**0.58**	**2.2**	<0.5	<0.5	**1.7**	<1	**3.9**	**1.6**	<0.5	**13**	<0.5
TFB-I002	02-NOV-10	E601	**0.51**	**2.1**	<0.5	<0.5	**1.6**	<1	**3.6**	**1.3**	<0.5	**11**	<0.5
TFB-I002	15-DEC-10	E601	<0.5	**2.2**	<0.5	<0.5	**1.8**	<1	**4**	**1.6**	<0.5	**14**	<0.5
TFB-E002	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	15-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	05-OCT-10	E601	<0.5	**1**	<0.5	<0.5	**0.8**	<1	**10**	**2.4**	<0.5	**7.7**	<0.5
TFC-I003	01-NOV-10	E601	<0.5	**0.98**	<0.5	<0.5	**0.76**	<1	**11**	**2.3**	<0.5	**8.2**	<0.5
TFC-I003	15-DEC-10	E601	<0.5	**1**	<0.5	<0.5	**0.65**	<1	**9.6**	**2.5**	<0.5	**8.4**	<0.5
TFC-E003	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC (cont.)													
TFC-E003	01-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	15-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E													
MTU1-I	05-OCT-10	E601	<0.5	**16**	<0.5	<0.5	**1**	<1	**12**	**0.79**	<0.5	**9.6**	**5.1**
MTU1-I	02-NOV-10	E601	<0.5	**10**	<0.5	<0.5	**0.65**	<1	**15**	**2.2**	<0.5	**14**	**4.8**
MTU1-I	01-DEC-10	E601	<0.5	**12**	<0.5	<0.5	**0.75**	<1	**17**	**2.2**	<0.5	**15**	**5.6**
MTU1-E	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-SE													
PTU1-I	05-OCT-10	E601	<0.5	**6.8**	<0.5	<0.5	**2.9**	<1	**16**	**0.66**	<0.5	**17**	**1**
PTU1-I	01-NOV-10	E601	<0.5	**6.8**	<0.5	<0.5	**2.6**	<1	**16**	**0.59**	<0.5	**17**	**1**
PTU1-I	02-DEC-10	E601	<0.5	**7**	<0.5	<0.5	**3.1**	<1	**16**	**0.61**	<0.5	**19**	**0.89**
PTU1-E	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	01-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	02-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD													
TFD-I004	04-OCT-10	E601	**2.4**	**1.7**	<0.5	<0.5	**0.94**	<1	**0.53**	**1.3**	<0.5	**52**	**29**
TFD-I004	18-NOV-10	E601	**2.3**	**1.9**	<0.5	<0.5	<0.5	<1	**0.52**	**0.5**	<0.5	**48**	**47**
TFD-I004	01-DEC-10	E601	**2.8**	**2**	<0.5	<0.5	**0.56**	<1	**0.66**	**0.98**	<0.5	**63**	**43**
TFD-E004	04-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	18-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E004	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-E													
PTU8-I	04-OCT-10	E601	**5**	**1.5**	<0.5	**0.53**	**5.3**	<1	**0.6**	**6.6**	<0.5	**85**	<0.5
PTU8-I	01-NOV-10	E601	**5.7**	**2.6**	**0.66**	**1.6**	**7.8**	<1	**0.6**	**7.3**	<0.5	**2.9**	**4.2**
PTU8-I	01-DEC-10	E601	**3.5**	**1.6**	**0.62**	**1.6**	**8.6**	<1	<0.5	**8.6**	<0.5	**100**	**2.8**
PTU8-E	04-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	01-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4	$CHCl_3$	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TFD-HPD													
PTU10-I	13-OCT-10	E601	**2.5**	**0.59**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**55**	<0.5
PTU10-I	17-NOV-10	E601	**2.1**	**0.52**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**53**	<0.5
PTU10-I	07-DEC-10	E601	**1.6**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**42**	<0.5
PTU10-E	13-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU10-E	17-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU10-E	07-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-S													
PTU2-I	06-OCT-10	E601	**1.4**	**1.9**	<0.5	<0.5	**5**	<1	**1.1**	**6.5**	<0.5	**71**	<0.5
PTU2-I	18-NOV-10	E601	**1.2**	**1.8**	<0.5	<0.5	**4.8**	<1	**1.1**	**5.9**	<0.5	**69**	<0.5
PTU2-I	16-DEC-10	E601	**1.2**	**2.2**	<0.5	<0.5	**5.3**	<1	**1.2**	**6.7**	<0.5	**68**	<0.5
PTU2-E	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	18-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	16-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SE													
PTU11-I	04-OCT-10	E601	**1.3**	**11**	**1.1**	**3**	**17**	<1	**4.7**	**55**	<0.5	**190**	<0.5
PTU11-I	02-NOV-10	E601	**1.1**	**8.2**	**1.1**	**2.6**	**15**	<1	**3.4**	**51**	<0.5	**180**	<0.5
PTU11-I	01-DEC-10	E601	**1.3**	**11**	**1.2**	**2.9**	**20**	<1	**4.5**	**52**	<0.5	**190**	<0.5
PTU11-E	04-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-SS													
PTU12-I	06-OCT-10	E601	**2.8**	**2.7**	**1.1**	**3.5**	**17**	<1	**0.77**	**27**	<0.5	**170**	**7**
PTU12-I	08-NOV-10	E601	**2.6**	**2.4**	**0.66**	**2.4**	**12**	<1	**0.74**	**19**	<0.5	**120**	**13**
PTU12-I	16-DEC-10	E601	**2.6**	**2.7**	**0.8**	**2.6**	**16**	<1	**0.78**	**25**	<0.5	**150**	**6.5**
PTU12-E	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	08-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	16-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-W													
PTU6-I	05-OCT-10	E601	**0.52**	**4**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6**	**67**
PTU6-I	08-NOV-10	E601	<0.5	**4**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.1**	**65**
PTU6-I	15-DEC-10	E601	<0.5	**4.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.2**	**55**

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-W (cont.)													
PTU6-E	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	08-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	15-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-E													
PTU3-I	05-OCT-10	E601	<0.5	**3.4**	<0.5	<0.5	**19**	<1	**8.7**	**26**	<0.5	**100**	<0.5
PTU3-I	18-NOV-10	E601	<0.5	**4.7**	<0.5	<0.5	**18**	<1	**6.7**	**26**	<0.5	**93**	<0.5
PTU3-I	15-DEC-10	E601	<0.5	**3.9**	<0.5	<0.5	**16**	<1	**8.4**	**20**	<0.5	**90**	<0.5
PTU3-E	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	18-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	15-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-HS[b]													
GTU07-I	04-OCT-10	E601	**2.4**	**2.1**	<0.5	<0.5	**7.2**	**2.3**	**4.1**	**9.6**	<0.5	**250**	<0.5
GTU07-E	04-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-NW													
PTU9-I	06-OCT-10	E601	<0.5	**1.7**	<0.5	<0.5	<0.5	<1	**1.1**	<0.5	<0.5	**11**	<0.5
PTU9-I	18-NOV-10	E601	<0.5	**1.8**	<0.5	<0.5	**0.54**	<1	**1.2**	<0.5	<0.5	**11**	<0.5
PTU9-I	15-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	**0.83**	<1	<0.5	**1.2**	<0.5	**20**	<0.5
PTU9-E	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	18-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	15-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SE													
W-359	04-OCT-10	E601	**3**	**0.73**	<0.5	<0.5	**18**	<1	**7.8**	**6.9**	<0.5	**140**	**0.81**
MTU04-I	04-OCT-10	E601	**3.1**	**0.76**	<0.5	<0.5	**18**	<1	**8.1**	**7.5**	<0.5	**140**	**0.87**
MTU04-I	02-NOV-10	E601	**3.6**	**0.81**	<0.5	<0.5	**19**	<1	**8**	**7.4**	<0.5	**190**	**1**
MTU04-I	01-DEC-10	E601	**3.6**	**0.87**	<0.5	<0.5	**22**	<1	**8.6**	**8.4**	<0.5	**210**	**1**
MTU04-E	04-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	01-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-SW													
MTU03-I	13-OCT-10	E601	<0.5	**0.5**	<0.5	<0.5	**1.7**	**1.9**	**1.3**	**0.81**	<0.5	**11**	<0.5
MTU03-I	17-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	**1.4**	**1.6**	**1**	**0.66**	<0.5	**11**	<0.5
MTU03-I	07-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	**1.6**	**1.8**	**1.1**	**0.78**	<0.5	**12**	<0.5
MTU03-E	13-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	17-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	07-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-W													
MTU05-I	13-OCT-10	E601	<0.5	**0.99**	<0.5	<0.5	**2.2**	**1.3**	**11**	**5.4**	<0.5	**29**	<0.5
MTU05-I	17-NOV-10	E601	<0.5	**1**	<0.5	<0.5	**2.5**	**1.3**	**12**	**5.3**	<0.5	**30**	<0.5
MTU05-I	07-DEC-10	E601	<0.5	**1**	<0.5	<0.5	**2.6**	**1.4**	**11**	**6**	<0.5	**31**	<0.5
MTU05-E	13-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	17-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	07-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-1													
W-1111	12-OCT-10	E601	**3.2**	**10**	<0.5	<0.5	**1.2**	<1	**0.52**	**1.2**	<0.5	**3.8**	<0.5
GTU01-I	22-NOV-10	E601	**3**	**9.4**	<0.5	<0.5	**1.2**	<1	**0.51**	**1.1**	<0.5	**4**	<0.5
GTU01-I	13-DEC-10	E601	**2.6**	**9.6**	<0.5	<0.5	**1.2**	<1	<0.5	**1.2**	<0.5	**3.9**	<0.5
GTU01-E	12-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	22-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	13-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFG-N													
MTU02-I	12-OCT-10	E601	<0.5	**3**	<0.5	<0.5	**1.3**	<1	**1.4**	**17**	<0.5	**5.1**	<0.5
MTU02-I	22-NOV-10	E601	<0.5	**2.6**	<0.5	<0.5	**1.3**	<1	**1.3**	**16**	<0.5	**5**	<0.5
MTU02-I	13-DEC-10	E601	<0.5	**2.6**	<0.5	<0.5	**1.3**	<1	**1.2**	**16**	<0.5	**4.9**	<0.5
MTU02-E	12-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	22-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	13-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406													
PTU5-I	07-OCT-10	E601	<0.5	**0.76**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.6**	<0.5
PTU5-I	11-NOV-10	E601	<0.5	**0.78**	<0.5	<0.5	<0.5	<1	**0.52**	<0.5	<0.5	**6.2**	<0.5
PTU5-I	13-DEC-10	E601	<0.5	**0.69**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.9**	<0.5

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

Sample Station	Date Sampled	Analytic Method	CCl_4	$CHCl_3$	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	ug/L (ppb)	-	-	-	-	-	->
TF406 (cont.)													
PTU5-E	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	11-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	13-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF406-NW													
W-1801	07-OCT-10	E601	<0.5	**1.8**	<0.5	<0.5	<0.5	<1	**6.8**	**0.81**	<0.5	**27**	<0.5
GTU03-I	11-NOV-10	E601	<0.5	**1.6**	<0.5	<0.5	<0.5	<1	**6.4**	**0.7**	<0.5	**27**	<0.5
GTU03-I	13-DEC-10	E601	<0.5	**1.8**	<0.5	<0.5	<0.5	<1	**6.1**	**0.77**	<0.5	**25**	<0.5
GTU03-E	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	11-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	13-DEC-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF518-N[c]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-1[d]	---	---	--	--	--	--	--	--	--	--	--	--	--
TF5475-2[e]													
GTU09-I	25-OCT-10	E601	**2**	**21**	**0.64**	**2.7**	**18**	<1	**6.6**	**35**	<0.5	**260**	<0.5
GTU09-I	02-NOV-10	E601	**1.8**	**19**	**0.58**	**2.3**	**18**	<1	**7.4**	**34**	<0.5	**290**	<0.5
GTU09-E	25-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	02-NOV-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TF5475-3[f]	---	---	--	--	--	--	--	--	--	--	--	--	--

Notes on following page.

Table A-1. VOC analyses of influent and effluent samples by treatment facility.

[a] TFA-W effluent is discharged to the Livermore Water Reclamation Plant in accordance with Permit #1510G (2006-2008). The discharge limit for Total Toxic Organics is 1.0 mg/L.

[b] TFE-HS did not operate during the months of November and December due to pneumatic fracturing being conducted in the area.

[c] TF518-N did not operate during this reporting period due to mixed waste disposition issues.

[d] TF5475-1 did not operate during this reporting period due to mixed waste disposition issues.

[e] TF5475-2 did not operate during the month of December due to facility maintenance.

[f] TF5475-3 did not operate during this reporting period due to mixed waste disposition issues.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFA													
W-109	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**0.57**	<1	<0.5	**2.1**	<0.5	<0.5	<0.5
W-262	01-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.52**	<0.5	<0.5	<0.5
W-408	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.76**	<0.5	<0.5	<0.5
W-415	07-OCT-10	E601	<0.5	**1.2**	**0.91**	<0.5	**2**	<1	<0.5	**13**	<0.5	**1**	<0.5
W-457	07-OCT-10	E601	<0.5	<0.5	**1.6**	<0.5	**1.8**	<1	<0.5	**19**	<0.5	**0.89**	<0.5
W-518	01-OCT-10	E601	<0.5	<0.5	**3.4**	<0.5	**1.6**	<1	<0.5	**4.3**	<0.5	<0.5	<0.5
W-522	12-OCT-10	E601	<0.5	<0.5	**0.71**	<0.5	**0.72**	<1	<0.5	**4.5**	<0.5	<0.5	<0.5
W-605	07-OCT-10	E601	<0.5	<0.5	**0.75**	<0.5	**0.87**	<1	<0.5	**6.5**	<0.5	<0.5	<0.5
W-614	13-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**4**	<0.5	<0.5	<0.5
W-712	07-OCT-10	E601	**3.5**	**3.1**	**1.4**	<0.5	**4.5**	<1	<0.5	**2.1**	<0.5	**3.5**	<0.5
W-714	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**11**	<0.5	<0.5	<0.5
W-903	25-OCT-10	E601	<0.5	<0.5	**0.55**	<0.5	<0.5	<1	<0.5	**3.6**	<0.5	<0.5	<0.5
W-904	07-OCT-10	E601	<0.5	<0.5	**1.3**	<0.5	**1.6**	<1	<0.5	**10**	<0.5	**0.5**	<0.5
W-1001	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**3.3**	<0.5	<0.5	<0.5
W-1009	07-OCT-10	E601	**1.4**	**5.6**	**0.92**	<0.5	**3.9**	<1	**0.67**	**14**	<0.5	**2**	<0.5
TFA-E													
W-254	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**0.57**	<1	<0.5	**42**	<0.5	**1**	<0.5
TFA-W													
W-404	16-DEC-10	E601	<0.5	<0.5	**1.5**	<0.5	**2.8**	<1	<0.5	**10**	<0.5	<0.5	<0.5
TFB													
W-357	06-OCT-10	E601	**1.7**	**2.7**	<0.5	<0.5	**1.6**	<1	**5.1**	**1.1**	<0.5	**37**	<0.5
W-610	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**2.2**	<1	**2.8**	**1.2**	<0.5	**3**	<0.5
W-620	06-OCT-10	E601	<0.5	**1.5**	<0.5	<0.5	**1.6**	<1	**2.5**	**1.4**	<0.5	**5.2**	<0.5
W-621	06-OCT-10	E601	<0.5	**0.82**	<0.5	<0.5	**0.7**	<1	**1.3**	**0.55**	<0.5	**4**	<0.5
W-655	06-OCT-10	E601	<0.5	**0.94**	<0.5	<0.5	<0.5	<1	**3.6**	<0.5	<0.5	**2.7**	<0.5
W-704	06-OCT-10	E601	**0.7**	**3.7**	<0.5	<0.5	**2.3**	<1	**6**	**3.3**	<0.5	**23**	<0.5
W-1423	06-OCT-10	E601	**0.96**	**5.1**	<0.5	<0.5	**3.7**	<1	**3.9**	**2**	<0.5	**9.7**	<0.5
TFC													
W-701	05-OCT-10	E601	<0.5	**2**	<0.5	<0.5	**1.7**	<1	**30**	**1.3**	<0.5	**13**	<0.5
W-1015	05-OCT-10	E601	<0.5	**0.59**	<0.5	<0.5	**1**	<1	**2.2**	**1.2**	<0.5	**5.1**	<0.5
W-1102	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**3.8**	<0.5	<0.5	**1.9**	<0.5
W-1103	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.5**	<0.5
W-1104	05-OCT-10	E601	<0.5	**0.5**	<0.5	<0.5	<0.5	<1	**1.9**	**3.4**	<0.5	**6**	<0.5
W-1116	05-OCT-10	E601	<0.5	**1.4**	<0.5	<0.5	**0.52**	<1	**6.8**	**2.5**	<0.5	**4.3**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFC-E													
W-368	05-OCT-10	E601	<0.5	**11**	<0.5	<0.5	**0.71**	<1	**16**	**2.1**	<0.5	**13**	**5.3**
W-413	05-OCT-10	E601	<0.5	**16**	<0.5	<0.5	**0.95**	<1	**7.8**	<0.5	<0.5	**7.9**	**3.7**
TFC-SE													
W-1213	05-OCT-10	E601	<0.5	**5**	<0.5	<0.5	**3.4**	<1	**10**	<0.5	<0.5	**17**	<0.5
W-2201	05-OCT-10	E601	<0.5	**8.1**	<0.5	<0.5	**2.4**	<1	**21**	**0.89**	<0.5	**18**	**1.5**
TFD													
W-351	04-OCT-10	E601	**11**	**2**	<0.5	**1.3**	**6.3**	<1	**2.1**	**7.8**	<0.5	**200**	**4.5**
W-653[a]	05-JAN-10	E601	**27**	**9.2**	<0.5	<0.5	**0.98**	**1**	**2**	**0.83**	<0.5	**1100**	<0.5
W-906	04-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.7**	<0.5
W-907-2[a]	08-APR-09	E601	<0.5	**7.2**	<0.5	**0.6**	**4.2**	<1	**1.6**	**7.8**	<0.5	**92**	<0.5
W-1206	04-OCT-10	E601	**1**	**1.1**	<0.5	<0.5	**0.82**	<1	<0.5	**0.84**	<0.5	**23**	<0.5
W-1208	04-OCT-10	E601	**2.8**	**2.1**	<0.5	<0.5	**0.78**	<1	**0.6**	**1.2**	<0.5	**64**	**47**
W-2011[a]	27-AUG-09	E601	<0.5	**0.56**	<0.5	<0.5	<0.5	**12**	<0.5	<0.5	<0.5	**4.8**	<0.5
W-2101	04-OCT-10	E601	**5.9**	**3.2**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**250**	<0.5
W-2102[a]	28-AUG-09	E601	**9.1**	**7.5**	<0.5	<0.5	**0.51**	**2.3**	**2.6**	**0.54**	<0.5	**660**	<0.5
TFD-E													
W-1253[ab]	11-FEB-08	E601	**6**	**6.2**	<5	<5	**16**	<10	**17**	**12**	<5	**2300**	<5
W-1255[a]	11-FEB-08	E601	**4.4**	**2**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**260**	<0.5
W-1301	04-OCT-10	E601	**2.4**	**1.5**	**1.5**	**4**	**39**	<1	<0.5	**45**	<0.5	**170**	<0.5
W-1303	01-DEC-10	E601	**4**	**3.6**	**1.4**	**4.1**	**9.8**	**1.8**	<0.5	**10**	<0.5	**240**	**11**
W-1306	04-OCT-10	E601	**3.5**	**2.6**	<0.5	<0.5	**0.75**	<1	<0.5	**3.8**	<0.5	**95**	<0.5
W-1307	04-OCT-10	E601	**2.5**	**0.57**	<0.5	<0.5	**0.55**	<1	<0.5	**0.79**	<0.5	**28**	<0.5
W-1404[a]	02-APR-10	E601	<0.5	**18**	<0.5	**3.6**	**2.6**	<1	<0.5	**44**	<0.5	**49**	<0.5
W-1550	04-OCT-10	E601	**12**	**4.5**	<0.5	<0.5	**2**	<1	**0.94**	**6.6**	<0.5	**190**	<0.5
W-2006	04-OCT-10	E601	**0.69**	**2.3**	**3.5**	**13**	**80**	**1.7**	<0.5	**76**	<0.5	**550**	<0.5
W-2203	04-OCT-10	E601	**16**	**2.6**	<0.5	<0.5	**3.4**	<1	**3.2**	**8.8**	<0.5	**120**	<0.5
TFD-HPD													
W-1254	13-OCT-10	E601	**2.5**	**0.6**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**54**	<0.5
W-1551	14-OCT-10	E601	**2.3**	**2.1**	<0.5	<0.5	<0.5	<1	**0.56**	**2.9**	<0.5	**150**	<0.5
W-1552[a]	29-SEP-10	E601	<0.5	**3.8**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**19**	<0.5
W-1650[a]	27-SEP-10	E601	**3.7**	**1.3**	<0.5	<0.5	<0.5	<1	**1.6**	<0.5	<0.5	**140**	<0.5
W-1651[a]	29-SEP-10	E601	<0.5	**1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**24**	<0.5
W-1652[a]	29-SEP-10	E601	**3.8**	**2.3**	<0.5	<0.5	<0.5	**8.4**	**1.3**	**0.55**	<0.5	**490**	<0.5
W-1653[a]	27-SEP-10	E601	**0.8**	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**53**	<0.5
W-1654[a]	29-SEP-10	E601	<0.5	**0.96**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**27**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFD-HPD (cont.)													
W-1655[a]	27-SEP-10	E601	**0.54**	**1.8**	<0.5	<0.5	<0.5	<1	<0.5	**3**	<0.5	**65**	<0.5
W-1656[a]	29-SEP-10	E601	**0.64**	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**47**	<0.5
W-1657[a]	27-SEP-10	E601	**5.5**	**2.8**	<0.5	<0.5	<0.5	<1	**1.8**	<0.5	<0.5	**430**	<0.5
TFD-S													
W-1503	06-OCT-10	E601	**2.6**	**2.2**	<0.5	**0.51**	**3.4**	<1	**0.83**	**3.7**	<0.5	**83**	<0.5
W-1504	06-OCT-10	E601	<0.5	**1.3**	<0.5	<0.5	**11**	**1**	**2.6**	**16**	<0.5	**82**	<0.5
W-1510	06-OCT-10	E601	<0.5	**1.7**	<0.5	<0.5	**1.9**	<1	<0.5	**3.2**	<0.5	**25**	**0.65**
TFD-SE													
W-314	04-OCT-10	E601	**1.5**	**13**	**0.92**	**2.1**	**14**	<1	**6.1**	**25**	<0.5	**190**	<0.5
W-1308	04-OCT-10	E601	<0.5	**1.8**	**1.6**	**4.8**	**18**	<1	<0.5	**110**	<0.5	**130**	<0.5
W-1403	04-OCT-10	E601	**3**	**19**	**1.6**	**6.3**	**51**	<1	**4.6**	**97**	<0.5	**430**	<0.5
W-1904[a]	26-DEC-07	E601	<0.5	<0.5	**0.54**	**0.67**	**5.8**	<1	<0.5	**39**	<0.5	**42**	<0.5
W-2005	04-OCT-10	E601	**0.83**	**0.94**	<0.5	<0.5	**7.8**	<1	<0.5	**21**	<0.5	**29**	<0.5
SIP-ETC-201[a]	26-DEC-07	E601	<0.5	**0.55**	**0.59**	**1.1**	**8.5**	<1	<0.5	**59**	<0.5	**60**	<0.5
TFD-SS													
W-1523	06-OCT-10	E601	**7.4**	**4.3**	**0.8**	**2.4**	**22**	<1	**2.2**	**28**	<0.5	**220**	<0.5
W-1601	06-OCT-10	E601	**3.8**	**4.2**	**1.7**	**5.9**	**27**	**1.2**	**1.5**	**92**	<0.5	**260**	<0.5
W-1602	06-OCT-10	E601	<0.5	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	**0.87**	<0.5	**10**	**8.3**
W-1603	06-OCT-10	E601	**1.6**	**2.2**	**1.4**	**5**	**19**	**1.4**	<0.5	**33**	<0.5	**200**	**9.9**
TFD-W													
W-1215	05-OCT-10	E601	<0.5	**5.5**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.4**	**29**
W-1216	05-OCT-10	E601	**0.51**	**3.6**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.8**	**55**
W-1902	05-OCT-10	E601	**0.67**	**3.2**	<0.5	<0.5	<0.5	<1	**0.57**	<0.5	<0.5	**7**	**96**
TFE-E													
W-566	05-OCT-10	E601	**0.63**	**4.9**	<0.5	<0.5	**4.5**	<1	**9.1**	**3.8**	<0.5	**53**	<0.5
W-1109	05-OCT-10	E601	<0.5	**0.63**	<0.5	<0.5	**41**	<1	**7.3**	**72**	<0.5	**180**	<0.5
W-1903	05-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**33**	<1	**9.4**	**24**	<0.5	**37**	<0.5
W-1909	06-DEC-10	E601	<0.5	<0.5	**2.2**	<0.5	**130**	**5.4**	**2.9**	**200**	<0.5	**230**	<0.5
W-2305	05-OCT-10	E601	<0.5	**0.71**	**0.88**	<0.5	**64**	<1	**12**	**97**	<0.5	**270**	<0.5
TFE-HS													
W-2012	04-OCT-10	E601	**2.4**	**2.1**	<0.5	<0.5	**7.4**	**2.2**	**4.3**	**9.2**	<0.5	**270**	<0.5
W-2105	04-OCT-10	E601	<0.5	**1.2**	<0.5	<0.5	**3.2**	**1.5**	**8.4**	**16**	<0.5	**390**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TFE-NW													
W-1211	06-OCT-10	E601	**0.51**	**2**	<0.5	<0.5	<0.5	<1	**1.2**	<0.5	<0.5	**9.4**	<0.5
W-1409	06-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**0.9**	<1	<0.5	**1.4**	<0.5	**21**	<0.5
TFE-SE													
W-359	04-OCT-10	E601	**3**	**0.73**	<0.5	<0.5	**18**	<1	**7.8**	**6.9**	<0.5	**140**	**0.81**
TFE-SW													
W-1518	13-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	**1.6**	**1.8**	**1.3**	**0.83**	<0.5	**11**	<0.5
W-1520	13-OCT-10	E601	**15**	**9.4**	<0.5	**4.6**	**3.6**	**20**	<0.5	**16**	<0.5	**320**	<0.5
W-1522	13-OCT-10	E601	**0.8**	**2.3**	**1.3**	<0.5	**10**	**22**	**3.3**	**2.2**	<0.5	**69**	**0.59**
TFE-W													
W-292	13-OCT-10	E601	<0.5	**0.77**	<0.5	<0.5	**1**	**2.7**	**1.2**	**1.3**	<0.5	**20**	<0.5
W-305	13-OCT-10	E601	<0.5	**1.2**	<0.5	<0.5	**3.4**	<1	**17**	**9**	<0.5	**36**	**0.68**
TFG-1													
W-1111	12-OCT-10	E601	**3.2**	**10**	<0.5	<0.5	**1.2**	<1	**0.52**	**1.2**	<0.5	**3.8**	<0.5
TFG-N													
W-1806	12-OCT-10	E601	<0.5	**2.7**	<0.5	<0.5	**0.59**	<1	<0.5	**14**	<0.5	**3.5**	<0.5
W-1807	12-OCT-10	E601	<0.5	**3.1**	<0.5	<0.5	**1.6**	<1	**1.8**	**18**	<0.5	**5.9**	<0.5
TF406													
W-1309	07-OCT-10	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.6**	<0.5
W-1310	07-OCT-10	E601	<0.5	**0.89**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.9**	<0.5
GSW-445[a]	26-MAR-09	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3**	<0.5
TF406-NW													
W-1801	07-OCT-10	E601	<0.5	**1.8**	<0.5	<0.5	<0.5	<1	**6.8**	**0.81**	<0.5	**27**	<0.5
TF518-N[c]													
W-1410[a]	08-SEP-10	E624	**3.1**	**2.3**	<1	<1	<1	<1	<1	<1	<1	**24**	<1
TF518-PZ													
W-1615	14-OCT-10	E601	**0.51**	**0.59**	<0.5	<0.5	**5.9**	<1	<0.5	**34**	<0.5	**110**	<0.5
W-518-1913[a]	11-AUG-10	E601	<0.5	<0.5	<0.5	<0.5	**0.6**	<1	<0.5	**10**	<0.5	**52**	<0.5
W-518-1914[a]	11-AUG-10	E601	<0.5	<0.5	<0.5	<0.5	**0.55**	**1.3**	<0.5	**410**	<0.5	**170**	<0.5
W-518-1915	14-OCT-10	E601	<0.5	**0.55**	<0.5	<0.5	**7**	<1	<0.5	**98**	<0.5	**1100**	<0.5
SVB-518-201[a]	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**35**	<0.5	**8.5**	<0.5

Table A-2. VOC analyses of samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE ug/L (ppb)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
TF518-PZ (cont.)													
SVB-518-204[a]	07-FEB-08	E601	<0.5	**0.63**	<0.5	<0.5	**1.4**	<1	<0.5	**43**	<0.5	**550**	<0.5
TF5475-1[c]													
W-1302-2[a]	18-JUL-07	E601	**1.8**	**19**	**0.73**	**3.4**	**20**	<1	**7.4**	**41**	<0.5	**260**	<0.5
TF5475-2													
W-1108	25-OCT-10	E601	**2**	**22**	**0.64**	**3.2**	**18**	<1	**6.7**	**36**	<0.5	**280**	<0.5
W-1415	12-NOV-10	E601	<0.5	**3.2**	<0.5	<0.5	**2.3**	<1	**0.72**	**2.6**	<0.5	**21**	<0.5
TF5475-3[c]													
W-1604[a]	21-AUG-07	E601	**2.9**	**29**	**0.94**	**5.2**	**23**	<1	**17**	**45**	<0.5	**390**	<0.5
W-1605[a]	24-JUN-10	E601	<0.5	**22**	**0.6**	**11**	**3.3**	**1.5**	<0.5	**7.8**	<0.5	**87**	<0.5
W-1608[a]	24-JUN-10	E601	<0.5	**26**	<0.5	**4.8**	**2.3**	**1.8**	<0.5	**6**	<0.5	**51**	<0.5
W-1609[a]	24-JUN-10	E601	<0.5	**36**	**0.71**	**6.7**	**6.5**	<1	<0.5	**12**	<0.5	**100**	<0.5

Notes on following page.

Table A-2. VOC analyses of samples from treatment facility extraction wells.

[a] Most recent VOC sample results available.

[b] Elevated detection limit due to dilution.

[c] Treatment Facility did not operate during reporting period. Please refer to Table A-1 for details.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4	$CHCl_3$	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCE	Freon 113	PCE	1,1,1-TCA	TCE	Freon 11
			<-	-	-	-	PPM(V/V)	-	-	-	-	-	->
VTFD-ETCS													
W-1904[a]	09-JUN-09	TO15DIT	<0.005	**0.041**	**0.0056**	<0.005	**0.25**	<0.005	<0.005	**2.1**	<0.005	**0.67**	<0.005
W-ETC-2003	19-OCT-10	TO15DIT	<0.011	<0.011	<0.011	<0.011	**0.019**	<0.011	<0.011	**0.29**	<0.011	**0.085**	<0.011
W-ETC-2004A	19-OCT-10	TO15DIT	<0.01	**0.024**	<0.01	<0.01	<0.01	<0.01	<0.01	**0.72**	<0.01	**0.2**	<0.01
W-ETC-2004B	19-OCT-10	TO15DIT	<0.011	**0.02**	**0.018**	<0.011	**0.16**	<0.011	<0.011	**2.8**	<0.011	**2.1**	<0.011
SIP-ETC-201[a]	09-JUN-09	TO15DIT	<0.005	**0.009**	**0.037**	**0.0059**	**0.65**	<0.005	<0.005	**2.9**	<0.005	**1.4**	<0.005
VTFD-HPD[b]													
W-1552[a]	13-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.011**	<0.005	**0.2**	<0.005
W-1650[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1651[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1652[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1653[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1654[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1655[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1656[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-1657[a]	03-JUL-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
W-HPA-002A	19-OCT-10	TO15DIT	**0.015**	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	**0.055**	<0.013	**0.42**	<0.013
W-HPA-002B[a]	23-JUL-09	TO15DIT	<0.011	**0.011**	<0.011	<0.011	<0.011	<0.011	<0.011	**0.056**	<0.011	**0.46**	<0.011
VTFD-HS[c]													
W-653[a]	03-NOV-09	TO15DIT	**0.026**	<0.005	<0.005	<0.005	<0.005	<0.005	**0.016**	<0.005	<0.005	**0.58**	<0.005
W-2011[a]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.081**	<0.005
W-2101[a]	03-NOV-09	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.052**	<0.005
W-2102[a]	15-FEB-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.11**	<0.005
VTFE-ELM[d]													
W-1903	14-OCT-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	**0.13**	<0.005	**0.033**	**0.052**	<0.005	**0.11**	<0.005
W-1909	14-OCT-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	**0.04**	**0.0068**	**0.031**	**0.0082**	<0.005	**0.035**	<0.005
W-2305	14-OCT-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	**1.8**	<0.005	**0.8**	**3.1**	<0.005	**4.4**	**0.0052**
W-543-001	14-OCT-10	TO15DIT	<0.005	<0.005	<0.005	<0.005	**0.043**	<0.005	**0.0054**	**0.82**	<0.005	**0.31**	<0.005
W-543-003	14-OCT-10	TO15DIT	<0.005	**0.01**	<0.005	<0.005	**0.11**	<0.005	**0.013**	**0.25**	<0.005	**0.64**	<0.005
W-543-1908	14-OCT-10	TO15DIT	**0.49**	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0065**	**0.035**	<0.005	**0.12**	<0.005
VTFE-HS[e]													
W-ETS-2008A[a]	06-MAY-10	TO15DIF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.035**	<0.005	**0.082**	<0.005
W-ETS-2008B[a]	28-SEP-10	TO15DIT	<0.005	**0.0087**	<0.005	<0.005	**0.017**	**0.012**	**0.085**	**0.97**	<0.005	**2.4**	<0.005
W-ETS-2009[a]	26-MAY-10	TO15DIF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.04**	<0.005
W-ETS-2010A[a]	17-JUN-10	TO15DIF	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.037**	<0.005	**0.1**	<0.005
W-ETS-2010B[a]	28-SEP-10	TO15DIT	<0.005	**0.0085**	<0.005	<0.005	**0.013**	<0.005	**0.087**	**0.74**	<0.005	**2.1**	<0.005

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

Extraction Well	Date Sampled	Analytic Method	CCl_4 <-	$CHCl_3$ -	1,1-DCA -	1,2-DCA -	1,1-DCE PPM(V/V)	1,2-DCE -	Freon 113 -	PCE -	1,1,1-TCA -	TCE -	Freon 11 ->
VTFE-HS (cont.)													
W-2105[a]	28-JUL-10	TO15DIF	<0.005	<0.005	<0.005	<0.005	**0.024**	<0.005	**0.042**	**0.11**	<0.005	**0.5**	<0.005
VTF406-HS													
W-217	19-OCT-10	TO15DIT	**0.19**	**0.028**	<0.016	<0.016	**1.2**	<0.016	**0.19**	**1.5**	<0.016	**2.3**	<0.016
W-514-2007A	19-OCT-10	TO15DIT	**0.015**	<0.011	<0.011	<0.011	**0.014**	<0.011	**0.014**	**0.082**	<0.011	**0.37**	**0.12**
W-514-2007B	19-OCT-10	TO15DIT	**0.11**	**0.019**	**0.011**	<0.011	**0.77**	<0.011	**0.074**	**0.76**	<0.011	**0.22**	**0.025**
VTF511													
W-274[a]	04-OCT-06	TO15DI	**0.14**	**0.02**	<0.0062	<0.0062	**0.07**	<0.0062	**0.014**	**0.33**	<0.0062	**6.1**	**0.38**
W-1517[a]	20-DEC-07	TO15DI	**0.0066**	<0.005	<0.005	<0.005	**0.0068**	<0.005	<0.005	**0.022**	<0.005	**0.65**	**0.016**
W-2204[a]	21-MAY-09	TO15DIT	**0.098**	**0.034**	<0.005	**0.038**	**0.019**	<0.005	**0.0082**	**0.42**	<0.005	**3.9**	<0.005
W-2206[a]	21-MAY-09	TO15DIT	**0.013**	**0.022**	<0.005	**0.024**	<0.005	<0.005	<0.005	**0.24**	<0.005	**2**	<0.005
W-2207A[a]	14-MAY-09	TO15DIT	<0.005	**0.0055**	<0.005	<0.005	**0.0053**	<0.005	<0.005	**0.01**	<0.005	**1.5**	<0.005
W-2207B	19-OCT-10	TO15DIT	<0.012	**0.018**	<0.012	<0.012	**0.014**	<0.012	<0.012	**0.053**	<0.012	**4.9**	<0.012
W-2208A[a]	14-MAY-09	TO15DIT	**0.025**	**0.016**	<0.01	<0.01	**0.05**	<0.01	<0.01	**0.019**	<0.01	**9.8**	**0.026**
W-2208B	19-OCT-10	TO15DIT	**0.11**	**0.046**	**0.034**	<0.032	**0.55**	**0.046**	**0.045**	**0.29**	<0.032	**13**	**0.038**
W-2205[a]	21-MAY-09	TO15DIT	**0.18**	**0.033**	<0.005	**0.0052**	**0.045**	<0.005	**0.0078**	**0.23**	<0.005	**3.6**	**0.012**
VTF518-PZ													
W-1615	10-NOV-10	TO15DIT	**0.047**	<0.012	<0.012	<0.012	**0.69**	<0.012	**0.24**	**5.1**	<0.012	**11**	<0.012
W-518-1913[a]	17-AUG-09	TO15DIT	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	**0.19**	<0.17
W-518-1914[a]	17-AUG-09	TO15DIT	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	**1.1**	<0.12	**0.61**	<0.12
W-518-1915	10-NOV-10	TO15DIT	<0.033	<0.033	<0.033	<0.033	**0.17**	<0.033	<0.033	**28**	<0.033	**31**	<0.033
SVB-518-201[a]	14-AUG-09	TO15DIT	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	<0.076	**0.26**	<0.076
SVB-518-204[a]	15-JAN-08	TO15DI	<0.02	<0.02	<0.02	<0.02	**0.051**	<0.02	<0.02	**2.4**	<0.02	**15**	<0.02
VTF5475[f]													
W-ETS-507[a]	23-SEP-09	TO15DI	<0.005	**2.7**	<0.005	**0.023**	<0.005	<0.005	<0.005	**0.54**	<0.005	**2.1**	<0.005
W-1605[a]	06-SEP-07	TO15DI	**0.0069**	**0.17**	<0.005	**0.15**	**0.11**	<0.005	**0.036**	**0.1**	<0.005	**0.85**	<0.005
W-1608[a]	06-SEP-07	TO15DI	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0061**	<0.005
W-2211[a]	30-JUN-10	TO15DIT	**0.012**	**0.58**	**0.02**	**0.068**	**0.3**	<0.005	**0.053**	**0.22**	<0.005	**1.6**	<0.005
W-2212[a]	30-JUN-10	TO15DIT	**0.048**	**0.73**	**0.031**	**0.033**	**0.94**	<0.005	**0.18**	**0.42**	<0.005	**3**	<0.005
W-2302[a]	01-JUL-10	TO15DIT	**0.041**	**0.54**	**0.02**	**0.015**	**0.79**	<0.011	**0.12**	**0.61**	<0.011	**8.6**	<0.011
W-2303[a]	01-JUL-10	TO15DIT	**0.0078**	**0.72**	**0.032**	**0.065**	**0.27**	<0.005	**0.02**	**0.35**	<0.005	**2.3**	<0.005
SVI-ETS-504[a]	29-JUN-10	TO15DIT	<0.005	**0.29**	**0.0088**	<0.005	**0.092**	<0.005	<0.005	**0.083**	<0.005	**0.39**	<0.005

Notes on following page.

Table A-3. VOC analyses of vapor samples from treatment facility extraction wells.

[a] Most recent VOC vapor sample results available.

[b] VTFD-HPD did not operate during reporting period due to an *insitu* bioremediation test at TFD Helipad.

[c] VTFD-HS did not operate during reporting period due to facility maintenance.

[d] VTFE-ELM did not operate during reporting period due to facility modifications and upgrades.

[e] VTFE-HS did not operate during reporting period due to pnuematic fracturing being performed in the area.

[f] VTF5475 did not operate during reporting period due to mixed waste disposition issues.

Notes:

CCl_4 = Carbon tetrachloride

$CHCl_3$ = Chloroform

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethylene

1,2-DCE = 1,2-Dichloroethylene

Freon 113 = Trichlorotrifluoroethane

PCE = Tetrachloroethylene

1,1,1-TCA = 1,1,1-Trichloroethane

TCE = Trichloroethene

Freon 11 = Trichlorofluoromethane

VOC = volatile organic compound

Numbers in **BOLD** print indicate positive values above the detection limit.

Table A-4. Chromium analyses of influent, effluent and receiving water samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Chromium (total)[a] mg/L (ppm)	Hexavalent Chromium mg/L (ppm)
TFB	TFB-E002	06-OCT-10	0.019	NA
	TFB-E002	02-NOV-10	0.018	NA
	TFB-E002	15-DEC-10	0.017	NA
TFC	TFC-E003	05-OCT-10	0.021	NA
	TFC-E003	01-NOV-10	0.021	NA
	TFC-E003	15-DEC-10	0.014	NA
TFC-E	MTU1-E	05-OCT-10	<0.001	NA
	MTU1-E	02-NOV-10	0.0015	NA
	MTU1-E	01-DEC-10	<0.001	NA
TFC-SE	PTU1-E	05-OCT-10	0.031	NA
	PTU1-E	01-NOV-10	0.033	NA
	PTU1-E	02-DEC-10	0.017	NA

[a]A discharge limit of 0.050 ppm is set for total chromium during the dry season (April 1-November 30), and no limit is set for total chromium for the wet season (December 1-March 31); however, a limit of 0.022 ppm hexavalent chromium applies during the wet season. Discharge limits are defined in the Explanation of Significant Differences for metals discharge limits (April 1997).

Shaded values exceeded the discharge limit. See text for explanation.

Table A-5. Bioassay, turbidity, and chloride analyses of influent and effluent samples by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Aquatic Bioassay[a] Percent Survival	Turbidity Nephelometric Turbidity Units (NTU)	Chloride (mg/L)
TFA	TFA-I001	06-OCT-10	NA	NA	78
TFA	TFA-E001	06-OCT-10	100 (100)	0.12	77

[a]Test species was Fathead minnow and the test duration was 96 hours.
Percent survival in the control group samples shown in parentheses.
Note: NA = not applicable

Explanation of Abbreviations

TFA-I001 is a sampling port located immediately prior to the TFA Treatment System.
TFA-E001 is a sampling port located immediately after the TFA Treatment System, at the beginning of the discharge pipeline.
TFA receiving water is routinely sampled at the TFG-ASW location.
TFA-W-I is an influent sampling port prior to the sediment bag filter immediately following W-404.
TFA-W-E is an effluent sampling port immediately following the sediment bag filter; the water is then discharged to the Livermore Water Reclamation Plant (LWRP).
TFB-I002 is a sampling port located immediately prior to the TFB Treatment System.
TFB-E002 is a sampling port located immediately after the TFB Treatment System, at the beginning of the discharge pipeline.
TFB-R002 is a sampling station in the drainage ditch north of TFB, located approximately 75 ft downstream from the discharge point.
TFC-I003 is a sampling port located immediately prior to the TFC Treatment System.
TFC-E003 is a sampling port located immediately after the TFC Treatment System, at the beginning of the discharge pipeline.
TFC-R003 is a sampling station in Arroyo Las Positas, located approximately 75 ft downstream from the TFC discharge point.
TFD-I004 is a sampling port located immediately prior to the TFD Treatment System.
TFD-E004 is a sampling port located immediately after the TFD Treatment System, prior to discharge to the Drainage Retention Basin or to the underground discharge pipeline leading to Arroyo Las Positas.
TFD-R004 is now combined with and collected at the TFC-R003 location. Results are reported under TFC-R003, as approved by the RWQCB.
CRD1-I is a sampling port located immediately prior to the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1).
CRD1-E is the effluent from the catalytic column in the Catalytic Reductive Dehalogenation treatment unit 1 (CRD1) and then reinjected at W-1302.
CRD2-I is a sampling port located immediately prior to the catalytic columns in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2).
CRD2-E is the effluent from the last catalytic column in the Catalytic Reductive Dehalogenation treatment unit 2 (CRD2) and then reinjected at W-1610.
GTU01-I is a sampling port located immediately prior to GTU01, which is currently operating in the TFG-1 area.
GTU01-E is a sampling port located immediately after GTU01, which is currently operating in the TFG-1 area.
GTU01 receiving water is routinely sampled at the TFG-ASW location.
GTU03-I is a sampling port located immediately prior to GTU03, which is currently operating in the TF406 Northwest area.
GTU03-E is a sampling port located immediately after GTU03, which is currently operating in the TF406 Northwest area.
GTU03 receiving water is routinely sampled at the TFC-R003 location.
GTU07-I is a sampling port located immediately prior to GTU07, which is currently operating in the TFE Hotspot area.
GTU07-E is a sampling port located immediately after GTU07, which is currently operating in the TFE Hotspot area.
GTU07 receiving water is routinely sampled at the TFC-R003 location.
GTU09-I is a sampling port located immediately prior to GTU09, which is currently operating in the TF5475 area.
GTU09-E is a sampling port located immediately after GTU09, which is currently operating in the TF5475 area.
GTU09 receiving water is routinely sampled at the TFC-R003 location.
MTU02-I is a sampling port located immediately prior to MTU02, which is currently operating in the TFG North area.
MTU02-E is a sampling port located immediately after MTU02, which is currently operating in the TFG North area.
MTU02 receiving water is routinely sampled at the TFC-R003 location.
MTU03-I is a sampling port located immediately prior to MTU03, which is currently operating in the TFE Southwest area.
MTU03-E is a sampling port located immediately after MTU03, which is currently operating in the TFE Southwest area.
MTU03 receiving water is routinely sampled at the TFC-R003 location.
MTU04-I is a sampling port located immediately prior to MTU04, which is currently operating in the TFE Southeast area.
MTU04-E is a sampling port located immediately after MTU04, which is currently operating in the TFE Southeast area.
MTU04 receiving water is routinely sampled at the TFC-R003 location.
MTU05-I is a sampling port located immediately prior to MTU05, which is currently operating in the TFE West area.
MTU05-E is a sampling port located immediately after MTU05, which is currently operating in the TFE West area.

MTU05 receiving water is routinely sampled at the TFC-R003 location.
MTU1-I is a sampling port located immediately prior to MTU1, which is currently operating in the TFC East area.
MTU1-E is a sampling port located immediately after MTU1, which is currently operating in the TFC East area.
MTU1 receiving water is routinely sampled at the TFC-R003 location.
PTU1-I is a sampling port located immediately prior to PTU-1, which is currently operating in the TFC Southeast area.
PTU1-E is a sampling port located immediately after PTU-1, which is currently operating in the TFC Southeast area.
PTU1 receiving water is routinely sampled at the TFC-R003 location.
PTU2-I is a sampling port located immediately prior to PTU-2, which is currently operating in the TFD South area.
PTU2-E is a sampling port located immediately after PTU-2, which is currently operating in the TFD South area.
PTU2 receiving water is routinely sampled at TFC-R003 during the wet season.
PTU3-I is a sampling port located immediately prior to PTU-3, which is currently operating in the TFE East area.
PTU3-E is a sampling port located immediately after PTU-3, which is currently operating in the TFE East area.
PTU3 receiving water is routinely sampled at the TFC-R003 location.
PTU5-I is a sampling port located immediately prior to PTU-5, which is currently operating in the TF406 extraction location.
PTU5-E is a sampling port located immediately after PTU-5, which is currently operating in the TF406 extraction location.
PTU5 receiving water is routinely sampled at the TFC-R003 location.
PTU6-I is a sampling port located immediately prior to PTU-6, which is currently operating in the TFD West area.
PTU6-E is a sampling port located immediately after PTU-6, which is currently operating in the TFD West area.
PTU6 receiving water is routinely sampled at the TFC-R003 location.
PTU8-I is a sampling port located immediately prior to PTU-8, which is currently operating in the TFD East area.
PTU8-E is a sampling port located immediately after PTU-8, which is currently operating in the TFD East area.
PTU8 receiving water is routinely sampled at the TFC-R003 location.
PTU9-I is a sampling port located immediately prior to PTU-9, which is currently operating in the TFE Northwest area.
PTU9-E is a sampling port located immediately after PTU-9, which is currently operating in the TFE Northwest area.
PTU9 receiving water is routinely sampled at the TFC-R003 location.
PTU10-I is a sampling port located immediately prior to PTU-10, which is currently operating in the TFD Helipad area.
PTU10-E is a sampling port located immediately after PTU-10, which is currently operating in the TFD Helipad area.
PTU10 receiving water is routinely sampled at the TFC-R003 location.
PTU11-I is a sampling port located immediately prior to PTU-11, which is currently operating in the TFD Southeast area.
PTU11-E is a sampling port located immediately after PTU-11, which is currently operating in the TFD Southeast area.
PTU11 receiving water is routinely sampled at the TFC-R003 location.
PTU12-I is a sampling port located immediately prior to PTU-12, which is currently operating in the TFD Southshore area.
PTU12-E is a sampling port located immediately after PTU-12, which is currently operating in the TFD Southshore area.
PTU12 receiving water is routinely sampled at the TFC-R003 location.
STU06-I is a sampling port located immediately prior to STU06, which is operating in the TFA East area.
STU06-E is a sampling port located immediately after STU06, which is operating in the TFA East area.
STU06 receiving water is routinely sampled at the TFG-ASW location.
STU09-I is a sampling port located immediately prior to STU09, which is currently operating in the TF518-North area.
STU09-E is a sampling port located immediately after STU09, which is currently operating in the TF518-North area.
STU09 receiving water is routinely sampled at the TFC-R003 location.

Attachment B

Self-Monitoring Reports

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **706**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-06-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**1,115,100**	**26.4**
W-415	**1,600,300**	**38.4**
W-605	**354,400**	**8.8**
W-262	**100**	**0.0**
W-457	**156,700**	**2.5**
W-518	**200**	**0.0**
W-522	**200**	**0.0**
W-614	**227,900**	**10.5**
W-712	**298,400**	**7.4**
W-714	**347,000**	**8.4**
W-903	**99,700**	**20.0**
W-904	**1,319,300**	**39.0**
W-109	**1,316,100**	**31.2**
W-1009	**1,012,300**	**24.4**
W-1004	**480,300**	**11.6**
W-1001	**140,300**	**3.4**
Total:	**8,468,300**	**232.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,320,800**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco **TFG-ASW** **4,147,500**

6. Comments:

W-518, W-522, and W-262 were operated to sample. Started W-614 on 10-13-10. Started W-903 on 10-25-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **766**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-408	**1,141,800**	**25.1**
W-415	**1,720,500**	**37.1**
W-605	**372,800**	**8.5**
W-262	**0**	**0.0**
W-457	**264,800**	**3.7**
W-518	**0**	**0.0**
W-522	**0**	**0.0**
W-614	**476,900**	**10.6**
W-712	**313,400**	**7.0**
W-714	**375,300**	**8.2**
W-903	**1,097,500**	**19.6**
W-904	**1,763,100**	**37.4**
W-109	**1,127,400**	**30.4**
W-1009	**1,070,500**	**23.8**
W-1004	**509,800**	**11.5**
W-1001	**149,500**	**3.2**
Total:	**10,383,300**	**226.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,963,400**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco **TFG-ASW** **5,419,900**

6. Comments:

System down on 11-3-10 due to I/O fault. Restarted on 11-4-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Treatment Facility A (TFA)
AREA TFA

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **655**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**16.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-109	**603,300**	**16.5**
W-262	**0**	**0.0**
W-408	**931,900**	**25.0**
W-415	**1,465,000**	**39.3**
W-457	**400,000**	**12.6**
W-518	**151,900**	**8.3**
W-522	**258,800**	**25.6**
W-605	**318,700**	**8.3**
W-614	**386,800**	**10.6**
W-712	**269,800**	**7.1**
W-714	**316,000**	**8.2**
W-903	**1,085,800**	**29.0**
W-904	**1,651,400**	**45.3**
W-1001	**128,700**	**3.2**
W-1004	**435,000**	**11.5**
W-1009	**910,900**	**23.4**
Total:	**9,314,000**	**273.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,501,100**

Self-Monitoring Report (cont'd)
LLNL Treatment Facility A (TFA)
AREA TFA

Arroyo Seco **TFG-ASW** **4,812,900**

6. Comments:

Facility down on 12-1-10 due to opto error. Restarted on 12-2-10. W-518 started on 12-16-10. W-522 started on 12-21-10. Facility down on 12-28-10 due to flooded vaults. Restarted on 12-29-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **230**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-05-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**15,713**	**1.3**
Total:	**15,713**	**1.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**15,713**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **51**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**4,009**	**1.3**
Total:	**4,009**	**1.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**4,009**

6. Comments:
Secured on 11-8-10 due to flow meter failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Steve Cawzynski Date: **12-02-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 06 (STU06)
AREA TFA-E

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **177**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-254	**14,568**	**1.4**
Total:	**14,568**	**1.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**14,568**

6. Comments:
System started on 12-1-10. No flow indicated and accumulator not incrementing on 12-5-10, 12-7-10, 12-17-10, and 12-19-10. Additional hours and volume of water treated have been estimated and added to displayed totals.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-12-2011**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **704**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-06-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**279,500**	**6.6**
W-610	**292,200**	**7.0**
W-621	**301,600**	**7.3**
W-620	**201,300**	**4.6**
W-704	**760,700**	**18.3**
W-655	**340,700**	**7.7**
W-1423	**212,900**	**4.7**
Total:	**2,388,900**	**56.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,388,900**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **October** Year **2010**

2. Date compliance sampling performed **10-06-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**16.4**
6-day total precipitation (in):	**0.04**
Average wind speed/direction (mph):	**5/ SSW**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:_____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	14	15
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **693**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**291,600**	**6.4**
W-610	**308,300**	**7.1**
W-621	**310,582**	**7.0**
W-655	**315,200**	**8.2**
W-704	**768,700**	**18.1**
W-620	**196,900**	**4.7**
W-1423	**207,000**	**4.8**
Total:	**2,398,282**	**56.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,398,282**

6. Comments:

System down on 11-13-10 due to flow meter failure. Restarted on 11-16-10. System secured on 11-30-10. Awaiting wet season hexavalent chromium resin columns.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **November** Year **2010**

2. Date compliance sampling performed **11-02-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**14.2**
6-day total precipitation (in):	**0.17**
Average wind speed/direction (mph):	**2/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Treatment Facility B (TFB)
AREA TFB

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	07	08	09	10	11	12	13	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **363**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-15-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**147,200**	**7.0**
W-610	**172,000**	**8.1**
W-620	**102,100**	**4.9**
W-621	**169,518**	**8.3**
W-655	**188,100**	**9.3**
W-704	**388,800**	**18.1**
W-1423	**120,300**	**5.9**
Total:	**1,288,018**	**61.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**1,288,018**

6. Comments:

Wet season ion exchange resin columns for hexavalent chromium treatment were installed on 12-14-10, and the system was started.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Cavagnaro Date: **01-04-2011**

Land Observation Report date:
TFB-R002 - West Perimeter Drainage Channel

1. Reporting Period: Business Month **December** Year **2010**

2. Date compliance sampling performed **12-15-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**12.2**
6-day total precipitation (in):	**0.35**
Average wind speed/direction (mph):	**3/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:_____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **709**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-05-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**585,328**	**14.0**
W-1015	**150,100**	**3.8**
W-1116	**74,560**	**1.7**
W-1103	**84,787**	**1.7**
W-1104	**1,124,800**	**26.6**
W-1102	**130,185**	**3.2**
Total:	**2,149,760**	**51.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**2,149,760**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **October** Year **2010**

2. Date compliance sampling performed **10-05-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**17.5**
6-day total precipitation (in):	**0**
Average wind speed/direction (mph):	**5/ SSW**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:_____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **759**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**618,600**	**13.9**
W-1015	**144,336**	**3.2**
W-1116	**72,882**	**1.7**
W-1103	**86,685**	**2.3**
W-1104	**1,190,608**	**26.8**
W-1102	**126,788**	**2.9**
Total:	**2,239,899**	**50.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**2,239,899**

6. Comments:

System down on 11-22-10 due to high stripper level. Restarted on 11-23-10. System secured on 11-30-10. Awaiting delivery of resin column for wet season hexavalent chromium treatment.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **November** Year **2010**

2. Date compliance sampling performed **11-01-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**13.5**
6-day total precipitation (in):	**0.17**
Average wind speed/direction (mph):	**3/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Carrazus Date: **12-02-2010**

Self-Monitoring Report
LLNL Treatment Facility C (TFC)
AREA TFC

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	07	08	09	10	11	12	13	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	26	**27**	**28**	**29**	

Total monthly time facility operated (hours): **283**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-15-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**24,688**	**13.1**
W-1015	**7,012**	**3.6**
W-1102	**6,035**	**3.1**
W-1103	**3,652**	**1.8**
W-1104	**364,400**	**26.6**
W-1116	**3,453**	**1.7**
Total:	**409,240**	**49.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**409,240**

6. Comments:

Wet season ion exchange resin columns for hexavalent chromium treatment installed and facility started on 12-14-10. Facility secured on 12-15-10 for Extraction Well Field Start-up. W-1104 started on 12-16-10. All wells except W-1104 were down from 12-16-10 until the end of the month. Facility down on 12-25-10 due to high air stripper level. System restarted on 12-27-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-13-2011**

Land Observation Report date:
TFC-R003 - Arroyo Las Positas

1. Reporting Period: Business Month **December** Year **2010**

2. Date compliance sampling performed **12-15-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**12.2**
6-day total precipitation (in):	**0.35**
Average wind speed/direction (mph):	**3/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**No**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature:_____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**		

Total monthly time facility operated (hours): **592**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-05-2010**
Influent pH:	**6.5**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**293,473**	**0.0**
W-368	**196,041**	**5.2**
Total:	**489,514**	**5.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**489,514**

6. Comments:

Facility went down on 10/15 due to facility low flow rate and was restarted on 10/18 in the afternoon. Well 413 will not operate at this time so facility is running on well 368 only.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **754**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**6.5**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-413	**0**	**0.0**
W-368	**235,992**	**5.4**
Total:	**235,992**	**5.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**235,992**

6. Comments:

Facility was down during the day for maintenance and trouble shooting on 11-18,20,22,and 23. Facility was restarted each day. Well 413 is still not operational.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 1 (MTU1)
AREA TFC-E

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **685**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-368	**219,041**	**5.2**
W-413	**143,284**	**14.5**
Total:	**362,325**	**19.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**362,325**

6. Comments:
New pump installed in well 413 and well restarted on 12-22-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-29-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **709**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-05-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**332,275**	**7.9**
W-2201	**520,624**	**12.5**
Total:	**852,899**	**20.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**852,899**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **779**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**364,768**	**8.0**
W-2201	**571,208**	**12.4**
Total:	**935,976**	**20.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**935,976**

6. Comments:
Wet season resin columns placed into service on 11-30-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawaguchi Date: **12-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 1 (PTU1)
AREA TFC-SE

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **703**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**330,762**	**8.0**
W-2201	**507,082**	**12.2**
Total:	**837,844**	**20.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**837,844**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **644**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-04-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-907-2	**0**	**0.0**
W-653	**0**	**0.0**
W-906	**136,800**	**3.6**
W-351	**45,100**	**1.2**
W-1206	**315,000**	**11.1**
W-1208	**857,700**	**22.5**
W-2102	**0**	**0.0**
W-2101	**14,700**	**0.5**
W-2011	**0**	**0.0**
Total:	**1,369,300**	**38.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,356,800**
TFD irrigation supply	**TFD-IRR**	**12,500**

6. Comments:

Facility down on 10-26-10 due to High Blower Manifold Pressure. Restarted on 10-26-10. Facility down on 10-27-10 due to High Blower Manifold Pressure. Remained down for air stripper descaling.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **315**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-18-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-907-2	**0**	**0.0**
W-653	**0**	**0.0**
W-906	**69,700**	**3.7**
W-351	**20,400**	**1.1**
W-1206	**0**	**0.0**
W-1208	**420,700**	**22.5**
W-2101	**7,500**	**1.1**
W-2102	**0**	**0.0**
W-2011	**0**	**0.0**
Total:	**518,300**	**28.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**517,300**
TFD irrigation supply	**TFD-IRR**	**1,000**

6. Comments:

Air diffuser system descaled and system started on 11-17-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL Treatment Facility D (TFD)
AREA TFD

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **699**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-351	**46,600**	**1.1**
W-653	**0**	**0.0**
W-906	**154,000**	**3.7**
W-907-2	**0**	**0.0**
W-1206	**179,700**	**5.0**
W-1208	**936,300**	**22.4**
W-2011	**0**	**0.0**
W-2101	**1,400**	**0.4**
W-2102	**0**	**0.0**
Total:	**1,318,000**	**32.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,318,000**
TFD irrigation supply	**TFD-IRR**	**0**

6. Comments:
W-1206 started on 12-2-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Treatment Facility D (TFD)
AREA TFD

Operator Signature: _____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **676**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-04-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1253	**0**	**0.0**
W-1255	**0**	**0.0**
W-1307	**239,800**	**5.9**
W-1550	**23,600**	**1.2**
W-1306	**9,600**	**0.3**
W-1301	**41,100**	**0.9**
W-1404	**0**	**0.0**
W-1303	**127,800**	**3.1**
W-2006	**100**	**0.1**
W-2203	**31,400**	**0.8**
Total:	**473,400**	**12.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**473,400**

6. Comments:
W-1303 started on 10-5-10. System down on 10-13-10 due to Snap I/O fault. Restarted on 10-14-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: _____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **768**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1253	**0**	**0.0**
W-1255	**0**	**0.0**
W-1307	**276,500**	**5.9**
W-1550	**3,600**	**2.1**
W-1306	**13,800**	**0.3**
W-1301	**46,000**	**0.9**
W-1404	**0**	**0.0**
W-1303	**160,300**	**3.3**
W-2006	**100**	**0.1**
W-2203	**36,000**	**0.8**
Total:	**536,300**	**13.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**536,300**

6. Comments:

W-1550 was secured on 11-19-10 due to transducer failure.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **618**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1253	**0**	**0.0**
W-1255	**0**	**0.0**
W-1301	**36,400**	**0.9**
W-1303	**109,500**	**2.9**
W-1306	**11,100**	**0.3**
W-1307	**222,500**	**6.0**
W-1404	**0**	**0.0**
W-1550	**1,000**	**0.0**
W-2006	**100**	**0.4**
W-2203	**17,800**	**0.7**
Total:	**398,400**	**11.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**398,400**

6. Comments:

W-1550 and W-2006 secured on 12-14-10 due to control issues. System down on 12-17-10 due to power outage. Restarted on 12-20-10. W-2203 secured on 12-27-10. System down on 12-29-10 due to Snap I/O fault. Restarted on 12-29-10.

Self-Monitoring Report (cont'd)
LLNL Portable Treatment Unit 8 (PTU8)
AREA TFD-E

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25

Total monthly time facility operated (hours): **604**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-13-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**513,751**	**15.0**
W-1551	**0**	**0.0**
Total:	**513,751**	**15.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**513,751**

6. Comments:
The facility was shut down at 13:05 on 10-7-10 for repair work and was restarted at 14:30 on 10-8-10. The facility was shut down at 06:30 on 10-25-10 as requested by Ben Johnson for ditch drying for wildlife enhancement.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kidd Jr. Date: **11-16-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	26	27	28	29	30	31									
November	01	02	03	04	05	06	07	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **527**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-17-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**374,682**	**15.0**
W-1551	**0**	**0.0**
Total:	**374,682**	**15.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**374,682**

6. Comments:

The facility was shut down for approximately 13 days in support for ditch drying for wildlife enhancement. The flow rate was reduced to 5 gpm on 11-23-10 (as requsted by Zaf) to avoid adverse affects on TFD-HPD ISB01. The end month hours cummulative is based on a calculation due to the fact that the facility clock continued to record hours when the facility was not operating.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D Kirkland Jr Date: **12-09-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 10 (PTU10)
AREA TFD-HPD

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** 03 04 **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22**

Total monthly time facility operated (hours): **464**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-07-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**142,389**	**5.2**
W-1551	**0**	**0.0**
Total:	**142,389**	**5.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**142,389**

6. Comments:

The facility was down for a few days due to a power outage. The facility was shut down on 12-22-10 as requested by Zafer Demir.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: **01-14-2011**

Self-Monitoring Report
LLNL ISB01 (ISB01)
AREA TFD-HPD

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1650	**0**	**0.0**
W-1657	**0**	**0.0**
W-1655	**0**	**0.0**
W-1653	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
ISB01 injection well	**W-1552**	**0**

6. Comments:
The facility was under construction at this time and did not operate.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkl Jr. Date: **12-15-2010**

Self-Monitoring Report
LLNL ISB01 (ISB01)
AREA TFD-HPD

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	**01**	**02**	**03**	**04**	**05**	06	07	**08**	**09**	**10**	**11**	**12**	13	14	**15**
	16	17	**18**	**19**	20	21	**22**	**23**	**24**	25	26	27	28	29	**30**

Total monthly time facility operated (hours): **88**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1650	**4,405**	**0.8**
W-1657	**1,151**	**0.2**
W-1655	**2,641**	**0.5**
W-1653	**4,110**	**0.8**
Total:	**12,307**	**2.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
ISB01 injection well	**W-1552**	**12,307**

6. Comments:

Water was circulated through the system, but it was not treated.The flow meters for W-1650 and W-1552 gave erratic readings during this reporting period. The facility did not operate during the Thanksgiving Day holiday period. The facility did not operate over the weekends. For most of the month the facility was only operated during manned hours.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Date: **12-15-2010**

Self-Monitoring Report
LLNL ISB01 (ISB01)
AREA TFD-HPD

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **586**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1650	**26,290**	**0.8**
W-1653	**27,087**	**0.8**
W-1655	**16,533**	**0.5**
W-1657	**5,359**	**0.1**
Total:	**75,269**	**2.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
ISB01 injection well	**W-1552**	**75,269**

6. Comments:
The facility was down for a few days due to a power outage. Water was circulated through the system, but it was not treated. The end month cumulative hours is based on a calculation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkland Jr. Date: **01-25-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **707**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-06-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**752,080**	**17.8**
W-1510	**325,182**	**7.8**
W-1504	**338,132**	**8.0**
Total:	**1,415,394**	**33.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,415,394**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	13	14	15
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **711**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-18-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**731,688**	**18.0**
W-1510	**233,780**	**5.8**
W-1504	**326,932**	**8.1**
Total:	**1,292,400**	**31.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,292,400**

6. Comments:

System secure from 11/12/10 to 11/16/10 for electronic repairs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 2 (PTU2)
AREA TFD-S

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	18	19	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **628**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-16-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**677,160**	**18.1**
W-1504	**301,366**	**8.0**
W-1510	**212,924**	**5.7**
Total:	**1,191,450**	**31.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,191,450**

6. Comments:
System secure from 12/17/2010 to 12/20/2010 due to power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	14	15
	16	17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**		

Total monthly time facility operated (hours): **478**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-04-2010**
Influent pH:	**6.5**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**287,779**	**10.3**
W-1904	**0**	**0.0**
W-1403	**41,282**	**0.9**
W-1308	**92,662**	**3.2**
W-2005	**1,106**	**0.0**
SIP-ETC-201	**0**	**0.0**
Total:	**422,829**	**14.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**422,829**

6. Comments:

Facility experienced several shutdowns during reporting month due to the failure of W-2005,and efforts to determine condition of well pump and controller.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **789**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**482,435**	**10.3**
W-1403	**71,881**	**1.5**
W-1904	**0**	**0.0**
W-1308	**150,678**	**3.3**
W-2005	**8,177**	**0.0**
SIP-ETC-201	**0**	**0.0**
Total:	**713,171**	**15.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**713,171**

6. Comments:

Facility shutdown 11/28 due to IO communications fault. Facility was restarted 11/29 @ 08:15 hrs. W-2005 was started 11/19 and currently extracting at 0.58 GPM flow rate. Month end volumes entered on this report for W-2005 have been corrected due to erratic totalizer operation.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 11 (PTU11)
AREA TFD-SE

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28**

Total monthly time facility operated (hours): **602**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**353,189**	**10.1**
W-1308	**121,615**	**3.2**
W-1403	**61,131**	**1.6**
W-1904	**0**	**0.0**
W-2005	**16,206**	**0.6**
SIP-ETC-201	**0**	**0.0**
Total:	**552,141**	**15.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**552,141**

6. Comments:
Facility operations interrupted 12/17 due to power outage. Facility was restarted 12/20/10 @ 11:45 hrs.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-04-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **707**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-06-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**296,682**	**7.0**
W-1603	**615,771**	**14.7**
W-1602	**216,582**	**5.2**
W-1601	**43,702**	**1.0**
Total:	**1,172,737**	**27.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,172,737**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **776**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-08-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**330,142**	**7.1**
W-1603	**685,059**	**15.1**
W-1602	**238,192**	**5.1**
W-1601	**48,844**	**1.0**
Total:	**1,302,237**	**28.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,302,237**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 12 (PTU12)
AREA TFD-SS

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **627**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-16-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**267,920**	**7.2**
W-1601	**39,239**	**1.0**
W-1602	**185,886**	**5.1**
W-1603	**541,903**	**14.5**
Total:	**1,034,948**	**27.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,034,948**

6. Comments:
System secure from 12/17/2010 to 12/20/2010 due to power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	25	26	27	28	29	

Total monthly time facility operated (hours): **603**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-05-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**344,467**	**9.7**
W-1216	**319,040**	**9.0**
W-1902	**615,906**	**17.4**
Total:	**1,279,413**	**36.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,279,413**

6. Comments:

System secure from 10/25/10 through 10/29/10 for the Arroyo Las Positas drying project and facility maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **703**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-08-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**405,052**	**10.2**
W-1216	**425,686**	**9.9**
W-1902	**773,783**	**18.9**
Total:	**1,604,521**	**39.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,604,521**

6. Comments:
System secure from 10/25/10 to 11/1/10 for the Arroyo Las Positas drying project and facility maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 6 (PTU6)
AREA TFD-W

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

Total monthly time facility operated (hours): **699**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-15-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**380,945**	**9.1**
W-1216	**429,376**	**10.3**
W-1902	**673,782**	**15.4**
Total:	**1,484,103**	**34.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,484,103**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**218,736**	**5.3**	**-6.74**	**58**	**674**
W-ETC-2004B	**221,406**	**6.3**	**-.79**	**58**	**674**
W-ETC-2003	**603,775**	**15.3**	**-1.21**	**58**	**674**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,043,917**	**26.9**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	25	26	27	28	29	30

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2004A	**207,792**	**5.3**	**-6.75**	**62**	**659**
W-ETC-2004B	**227,662**	**5.7**	**-.7**	**62**	**659**
W-ETC-2003	**579,149**	**15.2**	**-1.2**	**62**	**659**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,014,603**	**26.2**			

4. Comments:
   Facility secured 11/25 to protect unit from potential damage due to low ambient temperatures.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 11 (VES11)
AREA VTFD-ETCS

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December 01 02 03 04 05 06 **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2003	**422,783**	**14.9**	**-1.21**	**58**	**462**
W-ETC-2004A	**137,594**	**5.2**	**-5.96**	**58**	**462**
W-ETC-2004B	**212,037**	**6.5**	**-.75**	**58**	**462**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**772,414**	**26.6**			

4. Comments:
Facility operations secured 12/01 to 12/07 due to low ambient temperatures. Facility operations interrupted 12/17/10 due to site wide power outage. Facility was restarted 12/20/10.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**693,039**	**17.9**	**-23**	**86**	**701**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**693,039**	**17.9**			

4. Comments:
NA

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O Kiehl Date: **11-04-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	25	26	27	28	29	30

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**626,226**	**17.8**	**-23.2**	**84**	**630**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**626,226**	**17.8**			

4. Comments:
   The facility was run in a deadhead mode (no flow) starting 11-24-10(for freeze protection) and continued thru to the end of the month.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kittel Jr. Date: **12-09-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 07 (VES07)
AREA VTFD-HPD

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1655	**0**	**0.0**	**0**	**0**	**0**
W-1650	**0**	**0.0**	**0**	**0**	**0**
W-1651	**0**	**0.0**	**0**	**0**	**0**
W-1653	**0**	**0.0**	**0**	**0**	**0**
W-1654	**0**	**0.0**	**0**	**0**	**0**
W-1657	**0**	**0.0**	**0**	**0**	**0**
W-1552	**0**	**0.0**	**0**	**0**	**0**
W-1652	**0**	**0.0**	**0**	**0**	**0**
W-1656	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002A	**0**	**0.0**	**0**	**0**	**0**
W-HPA-002B	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:

The facility ran in a deadhead mode Dec 1,2 (for freeze protection),and no vapor treatment occurred.The facility has been shut down permanently.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kidd Jr Date: **12-22-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** 21 22 23 24 25 26 27 28 29

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**0**	**0.0**	**0**	**0**	**457**
W-2102	**0**	**0.0**	**0**	**0**	**457**
W-2011	**0**	**0.0**	**0**	**0**	**457**
W-2101	**0**	**0.0**	**-28.5**	**67**	**457**
Total:	**0**	**0.0**			

4. Comments:
System secured on 10-20-10 because ground water extraction from W-2101 secured.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kanazawa Date: **11-04-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**0**	**0.0**	**0**	**0**	**0**
W-2102	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
W-2101	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:
System did not operate during this period.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-29-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTFD-HS

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

November	30														
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-653	**0**	**0.0**	**0**	**0**	**0**
W-2011	**0**	**0.0**	**0**	**0**	**0**
W-2101	**0**	**0.0**	**0**	**0**	**0**
W-2102	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:
System did not operate during this period.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01** 02 03 **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** **18** **19** **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **607**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-05-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**304,475**	**8.5**
W-1109	**79,573**	**2.4**
W-1903	**9,815**	**0.8**
W-1909	**0**	**0.0**
W-2305	**30,814**	**1.1**
Total:	**424,677**	**12.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**424,677**

6. Comments:
System secure from 10/1/10 to 10/4/10 for T&V electrical modifications.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	02	03	04	05	06	07	08	09	10	11	**12**	13	14	15
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **364**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-18-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**184,082**	**8.6**
W-1109	**45,407**	**2.2**
W-1903	**7,306**	**1.1**
W-1909	**0**	**0.0**
W-2305	**17,444**	**0.9**
Total:	**254,239**	**12.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**254,239**

6. Comments:

System secure from 11/1/10 to 11/18/10 for drainage ditch maintenance and electronic repairs/modifications. Note: the system was operated on 11/12/10 and 11/17/10 for brief periods of time for system testing and verification.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 3 (PTU3)
AREA TFE-E

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **632**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-15-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**320,813**	**8.5**
W-1109	**76,662**	**2.0**
W-1903	**4,617**	**0.0**
W-1909	**0**	**0.0**
W-2305	**27,530**	**0.7**
Total:	**429,622**	**11.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**429,622**

6. Comments:
System secure from 12/17/2010 to 12/20/2010 due to power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **143**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-04-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**52**	**0.0**
W-2012	**16,114**	**1.9**
Total:	**16,166**	**1.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**16,166**

6. Comments:

System secure from 10/6/10 through 10/29/10 for mechanical fracturing of the sub-surface in the vicinity of W-2012 & W-2105.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**0**	**0.0**
W-2012	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System secure from 10/6/10 through 11/30/10 for mechanical fracturing of the sub-surface in the vicinity of W-2012 & W-2105.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 07 (GTU07)
AREA TFE-HS

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2012	**0**	**0.0**
W-2105	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
System secure from 10/6/10 through 12/29/10 for mechanical fracturing of the sub-surface in the vicinity of W-2012 & W-2105.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **531**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-06-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**555,131**	**17.6**
W-1409	**98,889**	**3.1**
Total:	**654,020**	**20.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**654,020**

6. Comments:

System secure from 10/22/10 through 10/29/10 for the Arroyo Las Positas drying project and facility maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	28	**29**	**30**

Total monthly time facility operated (hours): **655**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-18-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**611,564**	**16.1**
W-1409	**134,144**	**3.4**
Total:	**745,708**	**19.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**745,708**

6. Comments:

System secure from 10/22/10 through 11/1/10 for the Arroyo Las Positas drying project and facility maintenance. System down from 11/27/10 to 11/29/10 due to W-1211 low flow alarm.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL Portable Treatment Unit 9 (PTU9)
AREA TFE-NW

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**01**	02	03	04	05	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	14	**15**
	16	**17**	18	19	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **379**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-15-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**16.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**0**	**0.0**
W-1409	**74,919**	**3.5**
Total:	**74,919**	**3.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**74,919**

6. Comments:

System secure from 12/1/2010 to 12/6/2010, 12/13/2010 to 12/15/2010, 12/17/2010 to 12/20/2010 due to discharge pump trouble shooting and repair.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28

Total monthly time facility operated (hours): **669**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-04-2010**
Influent pH:	**7.0**
Effluent pH:	**6.5**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**333,357**	**8.3**
Total:	**333,357**	**8.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**333,357**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **788**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**397,525**	**8.3**
Total:	**397,525**	**8.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**397,525**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-01-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 04 (MTU04)
AREA TFE-SE

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	18	19	20	21	**22**	**23**	**24**	**25**	**26**	**27**	**28**		

Total monthly time facility operated (hours): **551**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-01-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**276,613**	**8.3**
Total:	**276,613**	**8.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**276,613**

6. Comments:

Facility shutdown 12/17/10 due to site wide power outage. Facility was restarted 12/22/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **692**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-13-2010**
Influent pH:	**7.4**
Effluent pH:	**7.7**
Effluent Temperature (°C):	**23**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1518	**76,662**	**1.8**
W-1522	**33**	**1.7**
W-1520	**31**	**1.2**
Total:	**76,726**	**4.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**76,726**

6. Comments:

The facility was shut down at 0959 on 10-29-10 as requested by Ben Johnson for channel drainage-facility438.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkland Jr. Date: **11-16-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	01	02	03	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **621**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-17-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1518	**68,925**	**1.8**
W-1522	**0**	**0.0**
W-1520	**0**	**0.0**
Total:	**68,925**	**1.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**68,925**

6. Comments:

The facility did not operate for several days for channel drainage (building 438).

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy [illegible] Date: **12-06-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 03 (MTU03)
AREA TFE-SW

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28**

Total monthly time facility operated (hours): **595**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-07-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1518	**65,485**	**1.8**
W-1520	**0**	**0.0**
W-1522	**0**	**0.0**
Total:	**65,485**	**1.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**65,485**

6. Comments:
The facility was down for a few days due to a power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: [signature] Date: **01-13-2011**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25**

Total monthly time facility operated (hours): **593**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-13-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**26.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**310,356**	**8.6**
W-292	**205,679**	**5.7**
Total:	**516,035**	**14.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**516,035**

6. Comments:
The facility was shut down at 0700 on 10-25-10 as requested by Ben Johnson in support of the North Ditch Drying Project.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy O. Kirkish Jr. Date: **11-04-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	26	27	28	29	30	31									
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **695**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-17-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-305	**361,442**	**8.6**
W-292	**237,677**	**5.7**
Total:	**599,119**	**14.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**599,119**

6. Comments:
The facility was shut down for several days in support of the North Ditch Drying Project.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kirkel Jr. Date: **12-06-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** 03 04 **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28**

Total monthly time facility operated (hours): **598**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-07-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-292	**206,238**	**5.7**
W-305	**311,184**	**8.6**
Total:	**517,422**	**14.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**517,422**

6. Comments:
The facility was down for a few days due to a power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Billy D. Kidd Jr. Date: **01-13-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:
   Facility secured 7/12/10 to modify piping and instrumentation in preparation for upcoming TFE-ELM Enhanced Source Area Remediation (ESAR) project.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	29	30	31												
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-1903	**0**	**0.0**	**0**	**0**	**0**
W-2305	**0**	**0.0**	**0**	**0**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:
   Facility secured 7/12/10 to modify piping and instrumentation in preparation for upcoming TFE-ELM Enhanced Source Area Remediation (ESAR) project.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1903	**136**	**2.2**	**-25.59**	**50**	**0**
W-1909	**2,279**	**0.5**	**-25.82**	**50**	**0**
W-2305	**177**	**0.0**	**-25.8**	**50**	**0**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**0**	**0.0**	**0**	**0**	**0**
Total:	**2,592**	**2.6**			

4. Comments:
   Facility started to verify operation and range of instrumentation in preparation of TFE/ESAR well field start-up.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	**01**	**02**	**03**	**04**	**05**	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**22,040**	**0.0**	**0**	**0**	**133**
W-ETS-2010B	**24,110**	**0.0**	**0**	**0**	**133**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-2105	**136,256**	**0.0**	**0**	**0**	**133**
Total:	**182,406**	**0.0**			

4. Comments:
   Facility was secured 10/05/10 in support of the mechanical fracturing project at TFE Hotspot.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	29	30	31												
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2010A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:
   Facility was secured 10/05/10 in support of the mechanical fracturing project at TFE Hotspot.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28		

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2009	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2010B	**0**	**0.0**	**0**	**0**	**0**
W-2105	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Comments:
   Facility was secured 10/05/10 in support of the mechanical fracturing project at TFE Hotspot and did not operate during reporting month.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **688**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-12-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**361,319**	**8.7**
Total:	**361,319**	**8.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**361,319**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **October** Year **2010**

2. Date compliance sampling performed **10-12-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**19.5**
6-day total precipitation (in):	**0.01**
Average wind speed/direction (mph):	**3/ SSE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**30**	**31**													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **764**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-22-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**402,866**	**8.8**
Total:	**402,866**	**8.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**402,866**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **November** Year **2010**

2. Date compliance sampling performed **11-22-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**9.8**
6-day total precipitation (in):	**1.00**
Average wind speed/direction (mph):	**5/ S**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	18	19	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **621**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-13-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**326,175**	**8.7**
Total:	**326,175**	**8.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**326,175**

6. Comments:
System secure from 12/17/2010 to 12/20/2010 due to power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **December** Year **2010**

2. Date compliance sampling performed **12-13-2010**

3. Weather Conditions:

Average air tempertaure (°C):	**12.9**
6-day total precipitation (in):	**0.41**
Average wind speed/direction (mph):	**2/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**N/M**	**N/M**

5. Land Observations, as "Yes" or "No", for reporting month:

Visual Observations	Effluent	Receiving Water
Floating and Suspended Materials of Waste Origin	**No**	**No**
Odor	**No**	**No**
Discoloration and Turbidity	Not Required	**No**
Evidence of Beneficial Water Use	Not Required	**N/A**

6. Comments:

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	26	27	28	29	

Total monthly time facility operated (hours): **604**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-12-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**22.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1807	**189,870**	**5.3**
W-1806	**99,832**	**2.8**
Total:	**289,702**	**8.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**289,702**

6. Comments:

System secure from 10/25/10 through 10/29/10 for the Arroyo Las Positas drying project and facility maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **706**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-22-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1806	**110,991**	**2.6**
W-1807	**184,415**	**4.4**
Total:	**295,406**	**7.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**295,406**

6. Comments:

System secure from 10/25/10 to 11/1/10 for the Arroyo Las Positas drying project and facility maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** 03 04 **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **629**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-13-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1806	**99,716**	**2.6**
W-1807	**168,029**	**4.4**
Total:	**267,745**	**7.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**267,745**

6. Comments:
System secure from 12/17/2010 to 12/20/2010 due to power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **530**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-07-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**24**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**121**	**3.9**
W-1310	**464,716**	**14.8**
GSW-445	**0**	**0.0**
Total:	**464,837**	**18.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**464,837**

6. Comments:

System secure from 10/22/10 through 10/29/10 for the Arroyo Las Positas drying project and facility maintenance. GSW-445 was abandoned on 9/9/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-19-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	**01**	**02**	**03**	**04**	**05**	**06**	07	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	26	27	28	**29**	**30**

Total monthly time facility operated (hours): **544**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-11-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**22.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**489,522**	**15.1**
Total:	**489,522**	**15.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**489,522**

6. Comments:

System secure from 10/22/10 through 11/1/10 for the Arroyo Las Positas drying project and facility maintenance. System shut down 11/6/10 to 11/8/10 and 11/25/10 to 11/29/10 due to discharge pump overload trip. GSW-445 was abandoned on 9/9/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-20-2011**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	18	19	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **439**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-13-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**22.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**401,932**	**15.3**
Total:	**401,932**	**15.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**401,932**

6. Comments:

System secure from 11/30/2010 to 12/7/2010 due to discharge pump service. System secure from 12/17/2010 to 12/20/2010 due to power outage. GSW-445 was abandoned on 9/9/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-20-2011**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	26	27	28	29	

Total monthly time facility operated (hours): **571**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-07-2010**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**22**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**98,310**	**2.9**
Total:	**98,310**	**2.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**98,310**

6. Comments:

System secure from 10/25/10 through 10/29/10 for the Arroyo Las Positas drying project and facility maintenance.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

Total monthly time facility operated (hours): **697**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-11-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**114,814**	**2.8**
Total:	**114,814**	**2.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**114,814**

6. Comments:

System secure from 10/29/2010 to 11/1/2010 for carbon change. On 11/22/2010 373 gallons of water processed through GTU03 from VTF518PZ.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-01-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	18	19	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	

Total monthly time facility operated (hours): **619**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**12-13-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**22**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**82,776**	**2.2**
Total:	**82,776**	**2.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**82,776**

6. Comments:
System secure from 12/17/2010 to 12/20/2010 due to power outage.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

September	30														
October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kavagnaro Date: **11-03-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-29-2010**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

November	30														
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1410	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
This treatment facility was shut down on 2-20-08 due to elevated tritium activities in the facility influent. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-04-2011**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 **26 27 28**

Total monthly time facility operated (hours): **551**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**152**	**0.0**
W-518-1915	**28**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**180**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**179.5**

6. Comments:
Compliance sampling at this facility is not required, water is transferred and treated at TF406-NW.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **628**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**193**	**0.0**
W-518-1915	**43**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**236**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**236**

6. Comments:
Groundwater extraction secured 11/23 to protect pipelines from freezing.
Transferred/treated 373 gallons of groundwater at TF406-NW 11/23/10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 20 **21** **22** **23** **24** **25** **26** **27** **28** **29**

Total monthly time facility operated (hours): **603**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1615	**110**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**86**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**196**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**196**

6. Comments:
Facility shutdown 12/18 due to site wide power outage, and was restarted 12/20/10. Facility was discovered down several times during reporting month due to tripped GFI. Compliance sampling at this facility is not required, water is transferred and treated at TF406-NW.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:
This treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:
This treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1302-2	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-1 injection	**W-1302-1**	**0**

6. Comments:
This treatment facility was shut down on 7/27/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	17	18	**19**	**20**	**21**	**22**	23	24	**25**	**26**	**27**	**28**		

Total monthly time facility operated (hours): **468**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**10-25-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**174,096**	**6.2**
W-1415	**0**	**0.0**
Total:	**174,096**	**6.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**174,096**

6. Comments:

Facility was secured on 10/15 for maintenance to well 1108 and restarted on 10/19. Facility was secured again on 10/21 to change out carbons and restarted on 10/22, facility ran for part of each day. Facility was down on 10/23 and 10/24 due to well meter alarm fault.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-01-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	**29**	30	31												
November	**01**	**02**	**03**	04	05	06	07	08	09	**10**	**11**	**12**	**13**	**14**	**15**
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **184**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**11-02-2010**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**71,338**	**6.2**
W-1415	**0**	**0.0**
Total:	**71,338**	**6.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**71,338**

6. Comments:

Facility down due to flooding in the area. Storm drain east of facility is plugged.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-30-2010**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**0**	**0.0**
W-1415	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**0**

6. Comments:
Facility did not operate in the month of December. Still waiting on drainage ditch to be cleared, work order request was submitted on 11-15-10.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-29-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
W-1608	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:
This treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-02-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1605	**0**	**0.0**
W-1604	**0**	**0.0**
W-1609	**0**	**0.0**
W-1608	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:
This treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **12-02-2010**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treated ground water was discharged

December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

Total monthly time facility operated (hours): **0**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y): **Not Measured**
Influent pH:
Effluent pH:
Effluent Temperature (°C):

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1604	**0**	**0.0**
W-1605	**0**	**0.0**
W-1608	**0**	**0.0**
W-1609	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
CRD-2 injection	**W-1610**	**0**

6. Comments:
This treatment facility was shut down on 8/31/07. The facility will be restarted once a solution for mixed waste generation is implemented.

7. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **01-03-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**829,588**	**19.9**	**-2.24**	**66.2**	**677**
W-514-2007B	**411,836**	**10.9**	**-2.81**	**66.2**	**677**
W-514-2007A	**251,349**	**6.1**	**-6.09**	**66.2**	**677**
Total:	**1,492,773**	**36.9**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	12	13	14	15
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**747,225**	**19.2**	**-4.27**	**60**	**661**
W-514-2007B	**382,962**	**10.2**	**-2.99**	**60**	**661**
W-514-2007A	**267,505**	**7.4**	**-3.99**	**60**	**661**
Total:	**1,397,692**	**36.8**			

4. Comments:

Facility was secured 11/11 in advance of scheduled power outage. Due to failed battery, strategy was reloaded and W-217 differential pressure transducer was replaced. Facility was restarted 11/16/10.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-01-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**621,324**	**19.0**	**-3.91**	**61**	**630**
W-514-2007A	**134,208**	**4.5**	**-4.56**	**61**	**630**
W-514-2007B	**371,344**	**10.0**	**-3.1**	**61**	**630**
Total:	**1,126,876**	**33.5**			

4. Comments:
Facility shutdown 12/17 due to site wide power outage, and restarted 12/20/10 @ 09:55 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thorna Date: **01-13-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **01 02 03 04 05 06 07 08 09 10 11 12 13 14 15**
16 17 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**676**
W-2204	**0**	**0.0**	**0**	**0**	**676**
W-2206	**0**	**0.0**	**0**	**0**	**676**
W-2208A	**0**	**0.0**	**0**	**0**	**676**
W-2208B	**259,216**	**6.0**	**-4.7**	**79**	**676**
W-1517	**0**	**0.0**	**0**	**0**	**676**
W-2207A	**0**	**0.0**	**0**	**0**	**676**
W-2207B	**377,598**	**8.9**	**-5.2**	**79**	**676**
W-2205	**0**	**0.0**	**0**	**0**	**676**
Total:	**636,814**	**14.9**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-02-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	**29**	**30**	**31**												
November	**01**	**02**	**03**	**04**	**05**	**06**	**07**	**08**	**09**	**10**	**11**	**12**	**13**	**14**	**15**
	16	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**0**
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**320,007**	**6.8**	**-4.6**	**62**	**766**
W-1517	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**391,691**	**7.8**	**-5.1**	**62**	**766**
W-2205	**0**	**0.0**	**0**	**0**	**0**
Total:	**711,698**	**14.6**			

4. Comments:

Facility was shutdown 11/9 to modify piping at manifold, and inspect subsurface pipelines and sumps for water accumulations. Facility was restarted @ 14:40 hrs. Facility was shutdown 11/17/10 upon discovery of concentrations exceeding permit conditions at the inlet to the last carbon filter. Removed filters 029 and 030, installed new filters 033 and 034. Facility was restarted 11/18/10.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-06-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **01** **02** **03** **04** **05** **06** **07** **08** **09** **10** **11** **12** **13** **14** **15**
16 **17** 18 19 20 21 22 23 24 25 26 27 28

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-274	**0**	**0.0**	**0**	**0**	**408**
W-1517	**0**	**0.0**	**0**	**0**	**408**
W-2204	**0**	**0.0**	**0**	**0**	**408**
W-2206	**0**	**0.0**	**0**	**0**	**408**
W-2207A	**0**	**0.0**	**0**	**0**	**408**
W-2207B	**154,599**	**5.8**	**-6**	**66**	**408**
W-2208A	**0**	**0.0**	**0**	**0**	**408**
W-2208B	**158,656**	**6.2**	**-5.4**	**66**	**408**
W-2205	**0**	**0.0**	**0**	**0**	**408**
Total:	**313,255**	**12.0**			

4. Comments:
Facility operations interrupted 12/17/10 due to power outage, and was offline at time month end readings were recorded.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **October Week: 1** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

September 25 26 **27** **28** **29** **30**
October **01**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**23,423**	**3.9**	**-15**	**56**	**100**
W-518-1915	**4,805**	**0.8**	**-22.3**	**56**	**100**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**28,228**	**4.7**			

4. Comments:
Facility secured 9/24/10 @ 14:00 hrs in advance of scheduled power outage, and restarted 9/27 @ 07:50 hrs.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **10-18-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **October Week: 2** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **02 03 04 05 06 07 08**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**40,505**	**3.9**	**-14.5**	**76**	**173**
W-518-1915	**7,270**	**0.7**	**-22.5**	**76**	**173**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**47,775**	**4.6**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **10-11-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **October Week: 3** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **09 10 11 12 13 14 15**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**37,552**	**3.8**	**-15**	**69**	**165**
W-518-1915	**8,894**	**0.9**	**-22**	**69**	**165**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**46,446**	**4.7**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-10-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **October Week: 4** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **16** **17** **18** **19** **20** 21 22

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**35,547**	**4.1**	**-14.5**	**50**	**144**
W-518-1915	**6,069**	**0.7**	**-22.2**	**50**	**144**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**41,616**	**4.8**			

4. Comments:
Facility secured 10/21 due to loss of water in reservoir. Added 5 psi relief valve on system discharge piping. Facility was restarted 10/26.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-10-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **October Week: 5** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October 23 24 25 **26** **27** **28** **29**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**14,558**	**3.6**	**-15.7**	**60**	**67**
W-518-1915	**2,426**	**0.6**	**-23.8**	**60**	**67**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**16,984**	**4.2**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-10-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **November Week: 1** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October **30** **31**
November **01** **02** **03** **04** **05**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**40,084**	**3.9**	**-15**	**50**	**171**
W-518-1915	**7,195**	**0.7**	**-22.3**	**50**	**171**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**47,279**	**4.6**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-10-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **November Week: 2** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

November **06 07 08 09 10 11 12**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,744**	**4.0**	**-15**	**56**	**166**
W-518-1915	**7,949**	**0.8**	**-22.5**	**56**	**166**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**47,693**	**4.8**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-24-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **November Week: 3** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

November **13** **14** **15** **16** **17** **18** **19**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,055**	**3.9**	**-14.5**	**50**	**167**
W-518-1915	**8,011**	**0.8**	**-22.4**	**50**	**167**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**47,066**	**4.7**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **11-24-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **November Week: 4** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

November **20** **21** **22** **23** **24**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**24,439**	**3.4**	**-17.5**	**30**	**120**
W-518-1915	**5,032**	**0.7**	**-24**	**30**	**120**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**29,471**	**4.1**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-06-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **December Week: 1** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

November **25** **26** **27** **28** **29** **30**
December **01** **02** **03**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**49,316**	**3.8**	**-15**	**44**	**216**
W-518-1915	**9,085**	**0.7**	**-22.8**	**44**	**216**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**58,401**	**4.5**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-06-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **December Week: 2** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **04 05 06 07 08 09 10**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,569**	**3.9**	**-14.5**	**55**	**169**
W-518-1915	**7,102**	**0.7**	**-22.5**	**55**	**169**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**46,671**	**4.6**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **12-15-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **December Week: 3** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December **11** **12** **13** **14** **15** **16** **17**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,172**	**3.9**	**-14.5**	**42**	**167**
W-518-1913	**0**	**0.0**	**0**	**0**	**167**
W-518-1914	**0**	**0.0**	**0**	**0**	**167**
W-518-1915	**5,022**	**0.5**	**-23**	**42**	**167**
SVB-518-201	**0**	**0.0**	**0**	**0**	**167**
SVB-518-204	**0**	**0.0**	**0**	**0**	**167**
Total:	**44,194**	**4.4**			

4. Comments:

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **December Week: 4** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

December 18 19 **20** **21** **22** **23** **24** **25** **26** **27** **28** **29**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**34,087**	**2.9**	**-18**	**40**	**196**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**5,877**	**0.5**	**-24**	**40**	**196**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**39,964**	**3.4**			

4. Comments:

Facility shutdown 12/17/10 due to unplanned power outage, and was restarted 12/20/10. Facility experienced several shutdowns during reporting period caused by tripping of the ground fault circuit interrupter providing power to vacuum unit.

5. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Sam Thomas Date: **01-05-2011**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **October** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

September	30														
October	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: _____ Date: **11-03-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **November** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

October	30	31													
November	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kawazu Gi Date: **11-29-2010**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **December** Year **2010**

2. Dates (in **bold** and underline) treatment facility operated

November	30														
December	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-ETS-507	**0**	**0.0**	**0**	**0**	**0**
W-1605	**0**	**0.0**	**0**	**0**	**0**
W-1608	**0**	**0.0**	**0**	**0**	**0**
W-2211	**0**	**0.0**	**0**	**0**	**0**
W-2212	**0**	**0.0**	**0**	**0**	**0**
W-2302	**0**	**0.0**	**0**	**0**	**0**
W-2303	**0**	**0.0**	**0**	**0**	**0**
SVI-ETS-504	**0**	**0.0**	**0**	**0**	**0**
Total:	**0**	**0.0**			

4. Discharge Information:

Discharge Location	Receiving Water Station	Volume
VTF5475 Vapor Injection Well	**SVI-ETS-505**	**0**

5. Comments:

This treatment facility was shut down on 10-12-07 due to a FY 2008 funding reduction. The facility will be restarted once a solution for mixed waste generation is implemented.

6. I certify that the information in this report, to the best of my knowledge, is true and correct.

Operator Signature: Scott Kanazawa Date: **01-04-2011**

Attachment C

Lake Haussmann

Attachment C

Lake Haussmann Fourth Quarter 2010 Monitoring Program Summary

This attachment summarizes the fourth quarter 2010 LLNL Environmental Functional Area (ENV FA) discharge data for Lake Haussmann. Lake Haussmann is an artificial water body with a 37 acre-ft capacity. It is located in the central portion of the Livermore Site (Fig. C-1) and receives storm water runoff and treated ground water discharges.

Water discharged from Lake Haussmann is sampled and analyzed as outlined in Jackson (2002). The discharge samples are used to determine compliance with discharge limits in the *Record of Decision* (DOE, 1992), and the subsequent *Explanation of Significant Differences for Metals Discharge Limits* (Berg et al., 1997).

Dry season (June, July, August, September) discharges are sampled at each manual release or monthly during periods of continual release. Wet season (October through May) discharge samples are collected at the first release of the wet season and one other discharge in conjunction with a storm water monitoring event. Analytical results of discharge samples collected at location CDBX are compared with the LLNL Arroyo Las Positas outfall sample results collected at location WPDC (Fig. C-1). The results for samples collected at locations CDBX and WPDC are presented in Table C-1. All PCBs were below detection limits. No metals or VOCs exceed discharge limits. Acute and chronic bioassay tests showed no toxicity. The pH values at the CDBX location exceeded the desired range of 6.5 to 8.5. The pH has averaged 8.8 since 1998 at the CDBX sampling location and is typically elevated during summer due to increased photosynthesis.

Discharge from Lake Haussmann remained continuous during the fourth quarter, with two exceptions. No discharge occurred from October 25, 2010 to November 3, 2010, to support mitigation of invasive species in Arroyo Las Positas. No discharge occurred from November 16, 2010 to November 18, 2010, when the bottom gate was closed to reduce outlet water level such that cattails immediately behind the upper weir could be removed. The Lake Haussmann upper weir gate was otherwise maintained at the lowered position during the entire fourth quarter, so that releases occurred continuously to minimize changes in surface water level and allow for a more natural ecosystem.

References

U.S. Department of Energy, *Record of Decision for the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-109105, (1992).

Berg, L.L., E.N. Folsom, M.D. Dresen, R.W. Bainer, and A.L. Lamarre, Eds., *Explanation of Significant Differences for Metals Discharge Limits at the Lawrence Livermore National Laboratory, Livermore Site*, Lawrence Livermore National Laboratory, Livermore, CA, UCRL-AR-125927 (1997).

Jackson, C.S., *Drainage Retention Basin Monitoring Plan Change,* Letter to Ms. Naomi Feger, San Francisco Bay RWQCB, Lawrence Livermore National Laboratory, Livermore, CA, WGMG02:175:CSJ:RW:kh, (December 6, 2002).

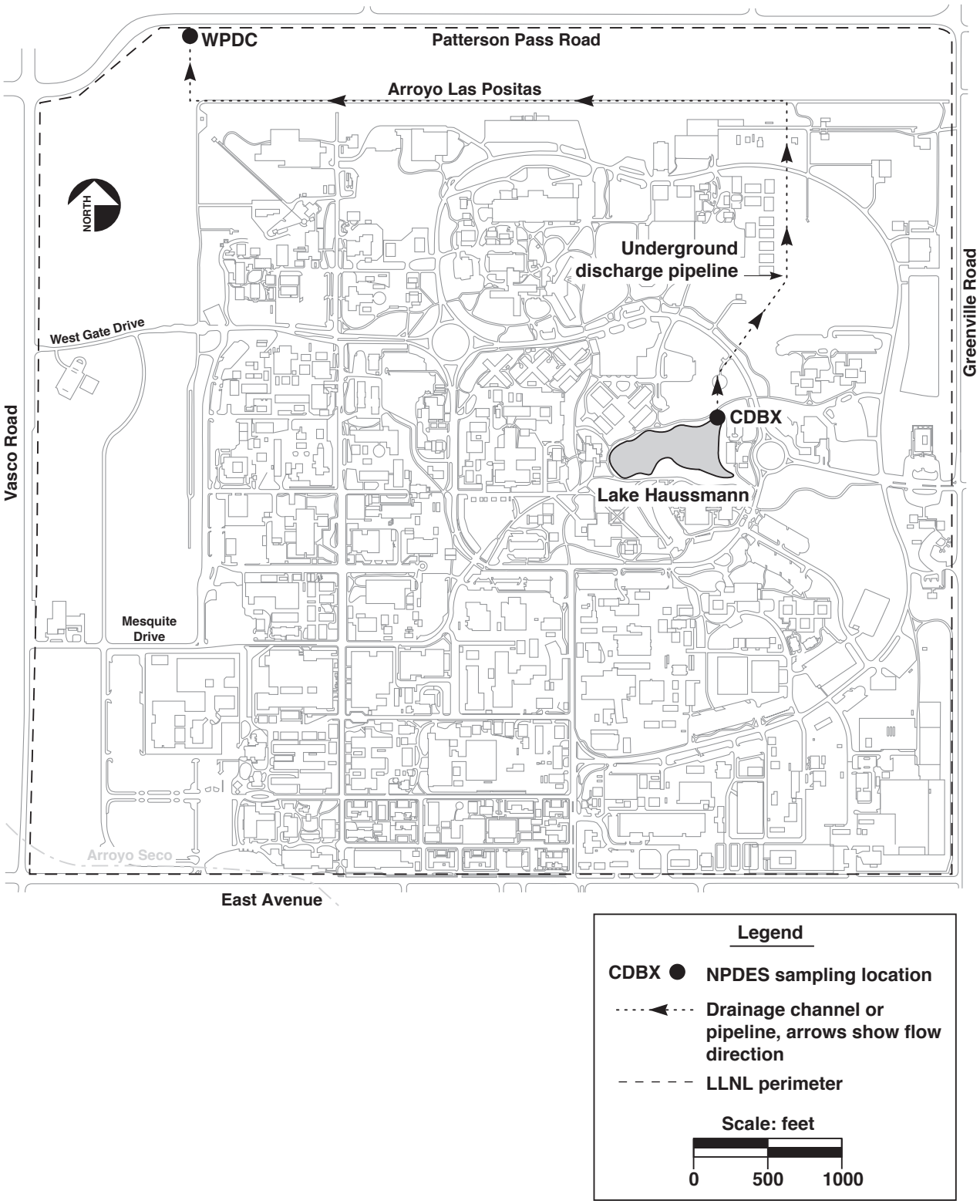
Table C-1. LLNL Lake Haussman release monitoring data for points CDBX and WPDC, October through December 2010.

			CDBX 11-Oct	WPDC 11-Oct	Discharge Limits 1-Apr through 30-Nov	Discharge Limits 1-Dec through 31-Mar
Physical						
pH	Units	EPA-150.1	9.1	8.4	not <6.5 or >8.5	not <6.5 or >8.5
Total Dissolved Solids (TDS)	mg/L	EPA-160.1	780	640	na	na
Total Suspended Solids (TSS)	mg/L	EPA-160.2	1.8	16	na	na
Polychlorinated biphenyls						
PCB 1016	ug/L	E8082A	<0.5	a	na	na
PCB 1221	ug/L	E8082A	<0.5	a	na	na
PCB 1232	ug/L	E8082A	<0.5	a	na	na
PCB 1242	ug/L	E8082A	<0.5	a	na	na
PCB 1248	ug/L	E8082A	<0.5	a	na	na
PCB 1254	ug/L	E8082A	<0.5	a	na	na
PCB 1260	ug/L	E8082A	<0.5	a	na	na
Metals						
Aluminum	mg/L	EPA-200.7	<0.05	0.34	na	na
Antimony	mg/L	EPA-200.8	<0.005	<0.005	0.006	na
Arsenic	mg/L	EPA-200.8	<0.002	<0.002	0.05	0.01
Barium	mg/L	EPA-200.7	0.13	0.12	na	na
Beryllium	mg/L	EPA-210.2	<0.0002	<0.0002	0.004	na
Boron	mg/L	EPA-200.7	1.8	1.4	na	na
Cadmium	mg/L	EPA-200.8	<0.0005	<0.0005	0.005	0.0022
Chromium	mg/L	EPA-200.8	0.0042	0.0072	0.05	na
Cobalt	mg/L	EPA-200.7	<0.05	<0.05	na	na
Copper	mg/L	EPA-200.8	<0.001	0.0016	1.3	0.0236
Hexavalent Chromium	mg/L	EPA-218.6	0.0044	0.0077	na	0.022
Iron	mg/L	EPA-200.7	<0.1	0.45	na	na
Lead	mg/L	EPA-200.8	<0.005	<0.005	0.015	0.0064
Manganese	mg/L	EPA-200.8	<0.03	<0.03	0.5	0.5
Mercury	mg/L	EPA-245.1	<0.0002	<0.0002	0.002	0.002
Molybdenum	mg/L	EPA-200.8	<0.025	<0.025	0.05	na
Nickel	mg/L	EPA-200.8	<0.002	0.0024	0.1	0.32
Selenium	mg/L	EPA-200.8	0.0021	<0.002	0.05	0.01
Silver	mg/L	EPA-200.8	<0.001	<0.001	0.1	0.0082
Thallium	mg/L	EPA-200.8	<0.001	<0.001	0.002	na
Vanadium	mg/L	EPA-200.7	<0.02	<0.02	na	na
Zinc	mg/L	EPA-200.7	<0.02	<0.02	na	0.22
Organics[b,c]						
1,1-Dichloroethane	ug/L	EPA-601	<0.5	a	5	5
1,1-Dichloroethene	ug/L	EPA-601	<0.5	a	5	5
1,2-Dichloroethane	ug/L	EPA-601	<0.5	a	5	5
1,2-Dichloroethene (total)	ug/L	EPA-601	<1	a	na	na
Bromodichloromethane	ug/L	EPA-601	<0.5	a	5[d]	5[e]
Bromoform	ug/L	EPA-601	<0.5	a	5[d]	5[e]
Carbon tetrachloride	ug/L	EPA-601	<0.5	a	5	5
Chloroform	ug/L	EPA-601	<0.5	a	5[d]	5[e]
cis-1,2-Dichloroethene	ug/L	EPA-601	<0.5	a	5	5
Tetrachloroethene	ug/L	EPA-601	<0.5	a	5	5
trans-1,2-Dichloroethene	ug/L	EPA-601	<0.5	a	5	5
Trichloroethene	ug/L	EPA-601	<0.5	a	5	5
Vinyl chloride	ug/L	EPA-601	<0.5	a	2	2
Radiological						
Alpha	pCi/L	E900	0.180 ± 0.086	a	na	na
Beta	pCi/L	E900	0.180 ± 0.063	a	na	na
Tritium	pCi/L	E906	5.1 ± 2.3	a	20,000	20,000
Herbicides						
Bromicil	ug/L	EPA-525-2	<1	a	na	na
Diuron	ug/L	EPA-632	<1	a	na	na
Glyphosate	ug/L	EPA-547	<5.0[e]	a	na	na
Acute Toxicity						
Aq. Bioassay, Survival	Percent	Title 22	100[g]	100	na	na
Chronic Toxicity[f]						
Fathead Minnow Survival	Percent	E1000	100	a	na	na
Fathead Minnow Growth	Percent	E1000	100	a	na	na
Water Flea Survival	Percent	E1002	100	a	na	na
Water Flea Reproduction	Percent	E1002	100	a	na	na
Algae Growth	Percent	E1003	100	a	na	na

Notes on following page.

Table C-1. LLNL Lake Haussman release monitoring data for points CDBX and WPDC, October through December 2010.

a) Sampling for these analytes not required at this location.
b) The reporting limit is from 0.5 µg/L to 10 µg/L for various VOCs.
c) VOCs reported are the Constituents of Concern for CDBX and WPDC sampling locations.
d) The reporting limits for THM (chloroform, bromoform, chlorodibromomethane, bromodichloromethane) is 5 ug/L.
e) Hold times exceeded by analytical laboratory for sample taken 10/11/10, result is from re-sample taken 11/29/10.
f) If survival is <100%, NOEC & LOEC will be reported.
g) In lieu of conducting the starndard acute toxicity testing with the fathead minnow, results are reported from the endpoint of the first 48 hours of the chronic toxicity test.



ERD-S3R-08-0041

Figure C-1. Location of Lake Haussmann showing discharge sampling locations.

Attachment D

Figures

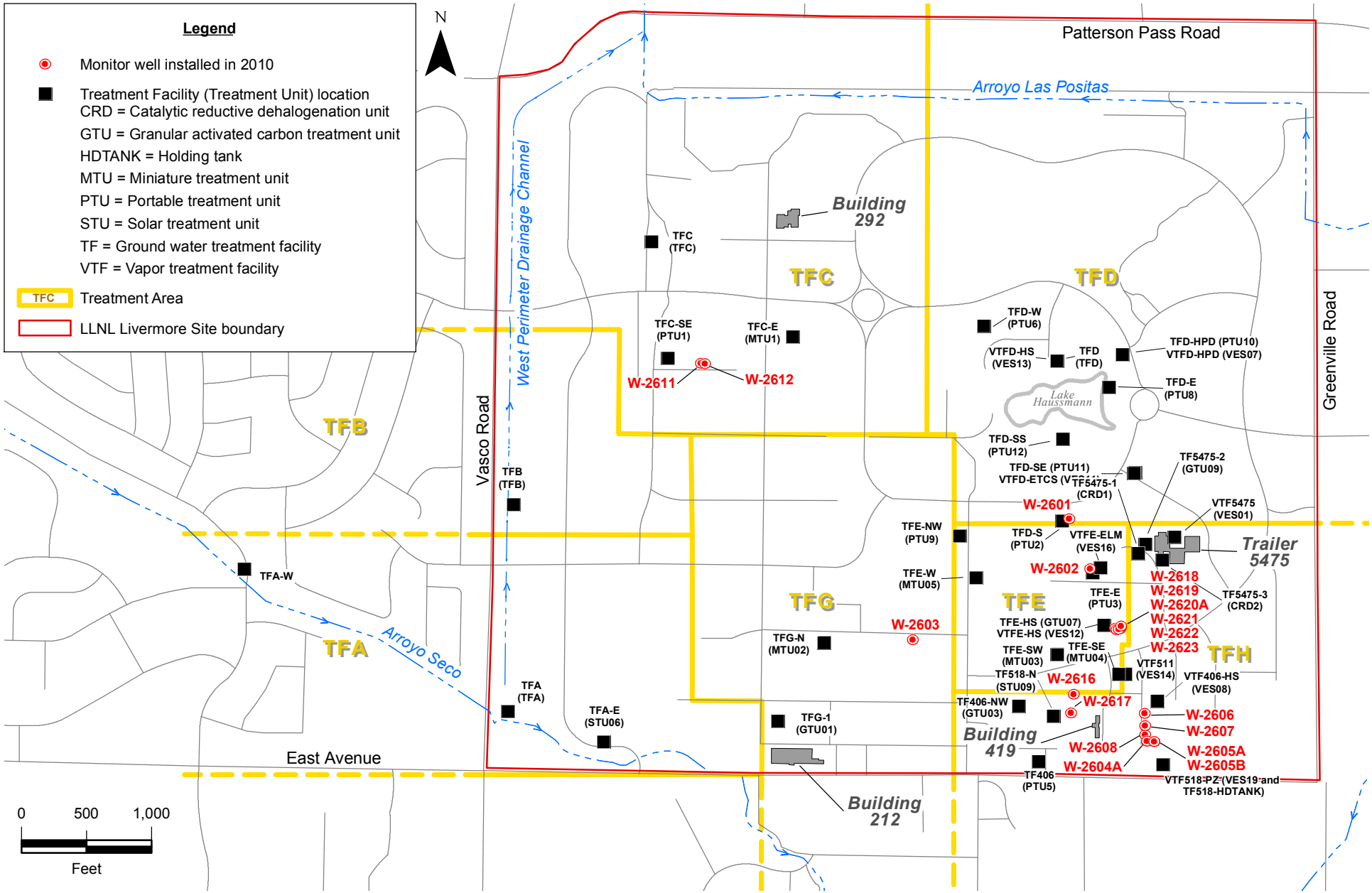


Figure 1. Location of Livermore Site treatment areas, treatment facilities, and wells installed during the year 2010.

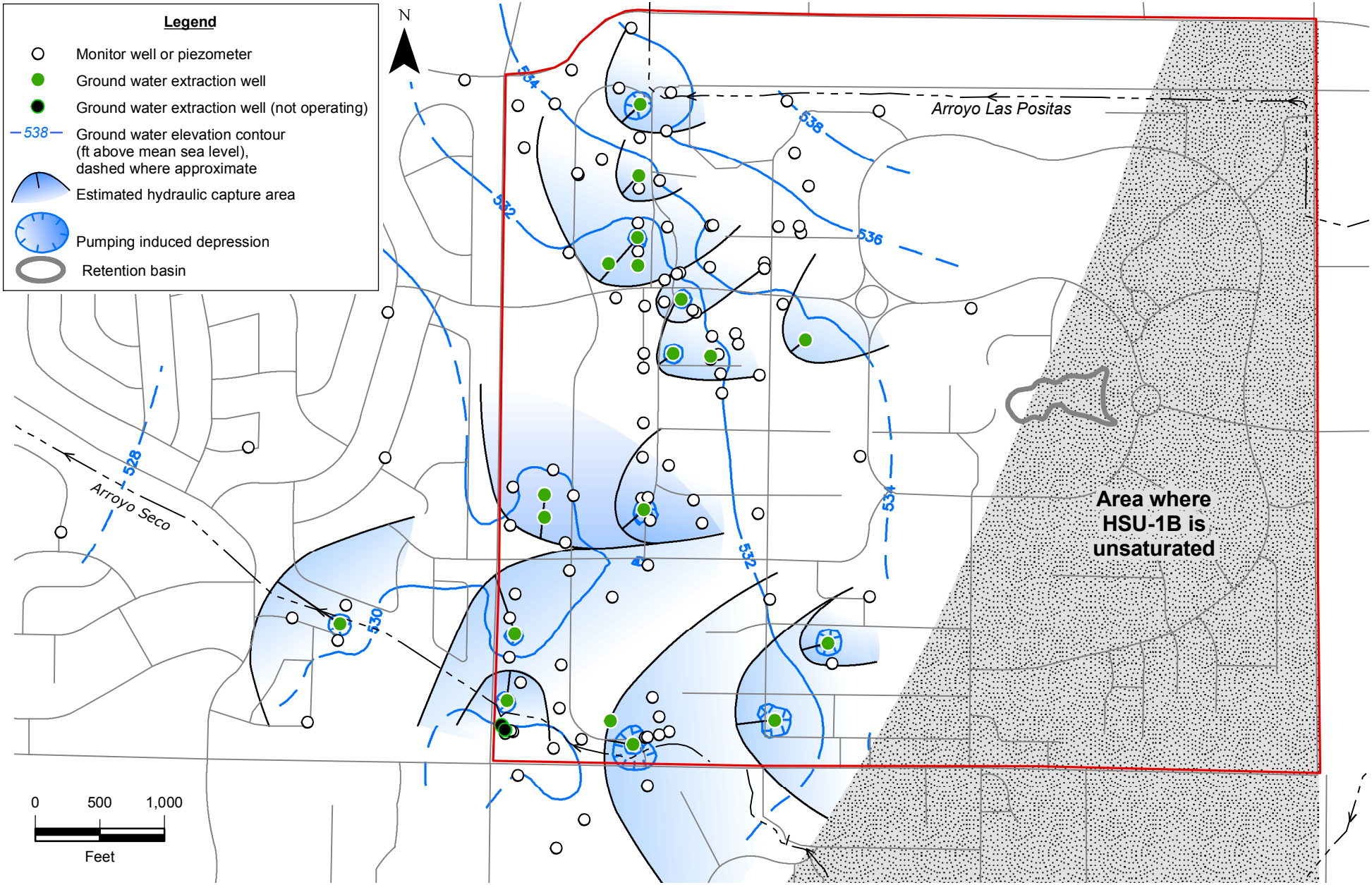


Figure 2. Ground water elevation contour map based on 126 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, October 2010.

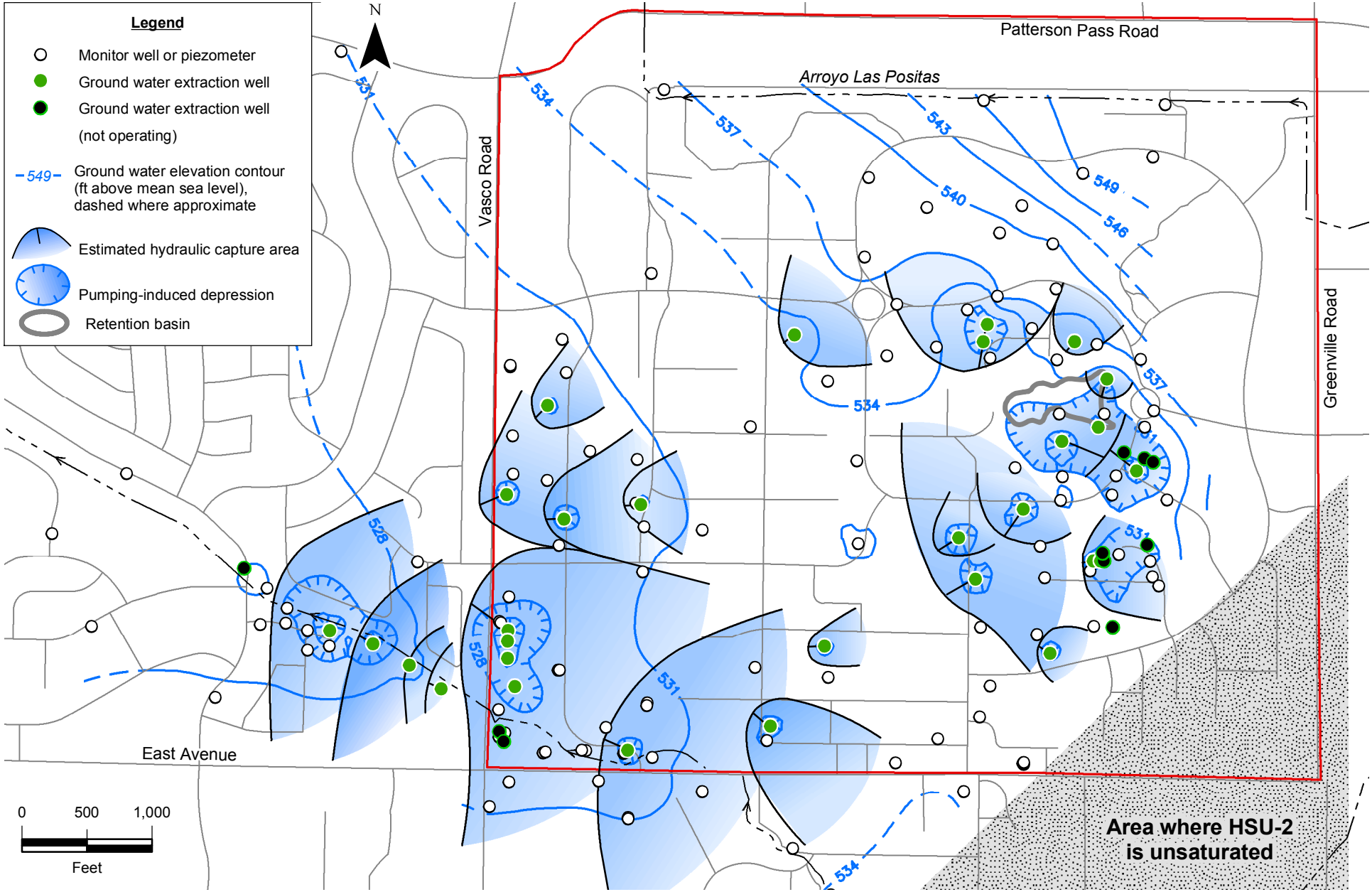


Figure 3. Ground water elevation contour map based on 143 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, October 2010.

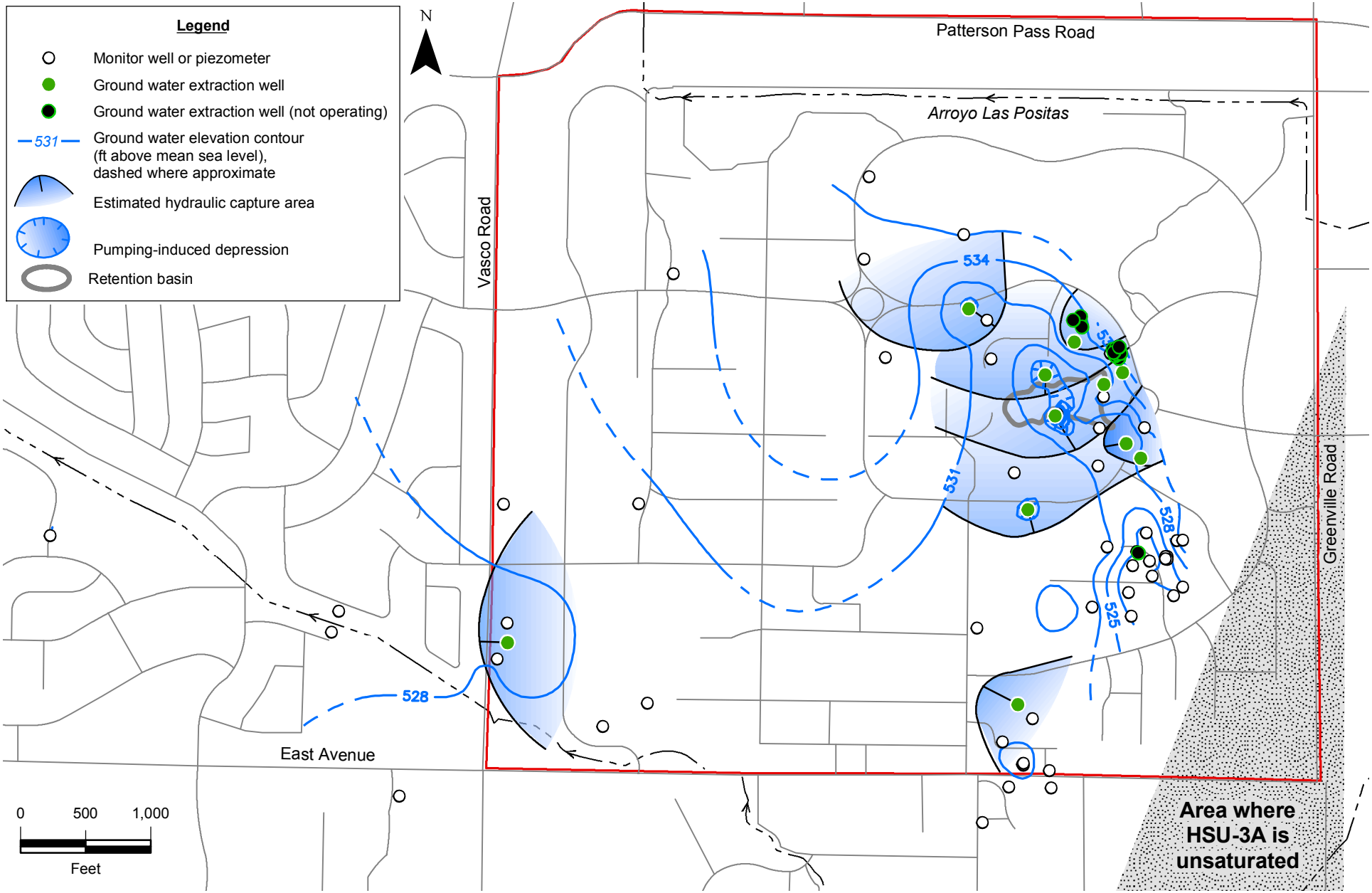


Figure 4. Ground water elevation contour map based on 77 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, October 2010.

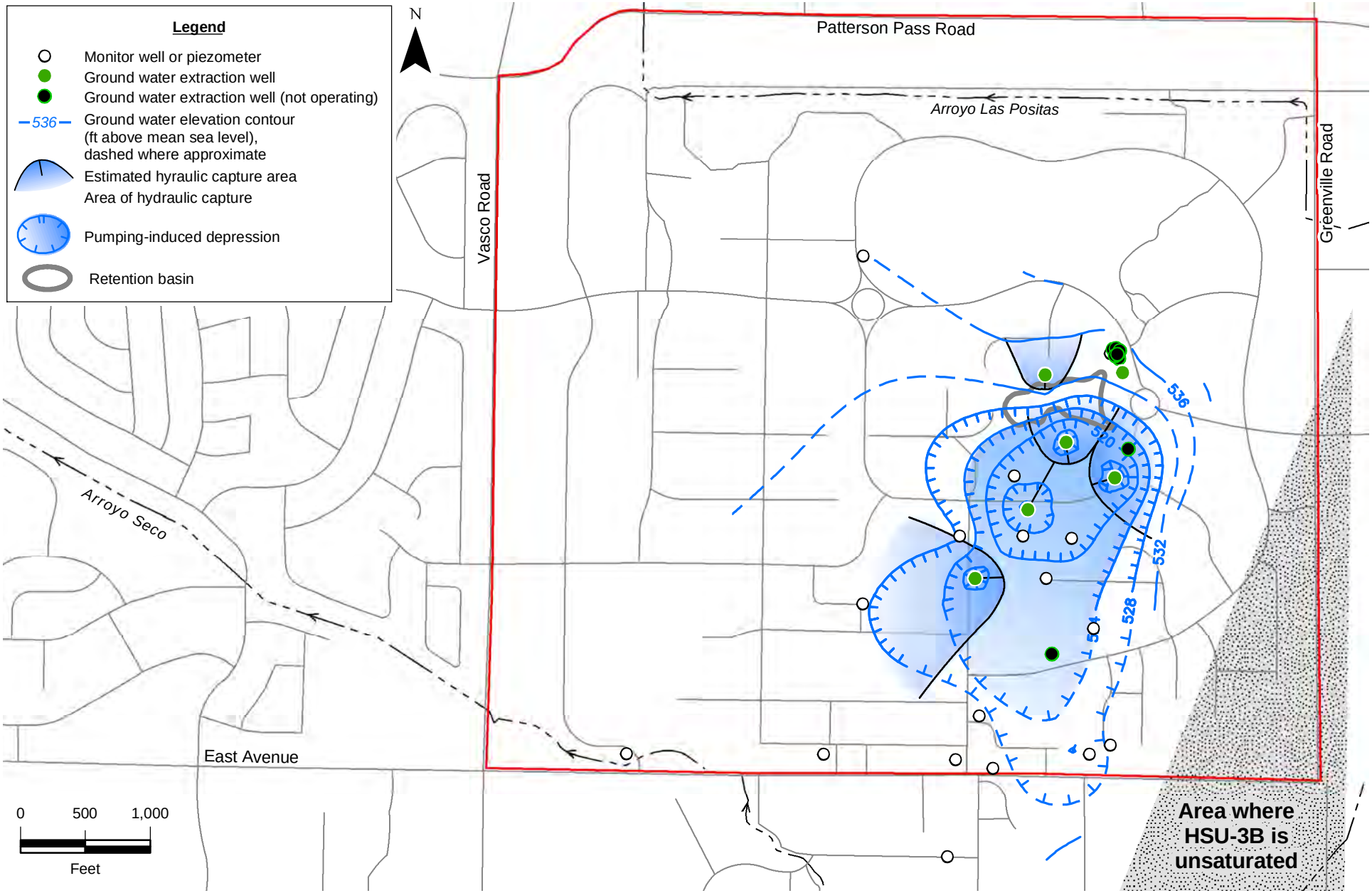


Figure 5. Ground water elevation contour map based on 32 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, October 2010.

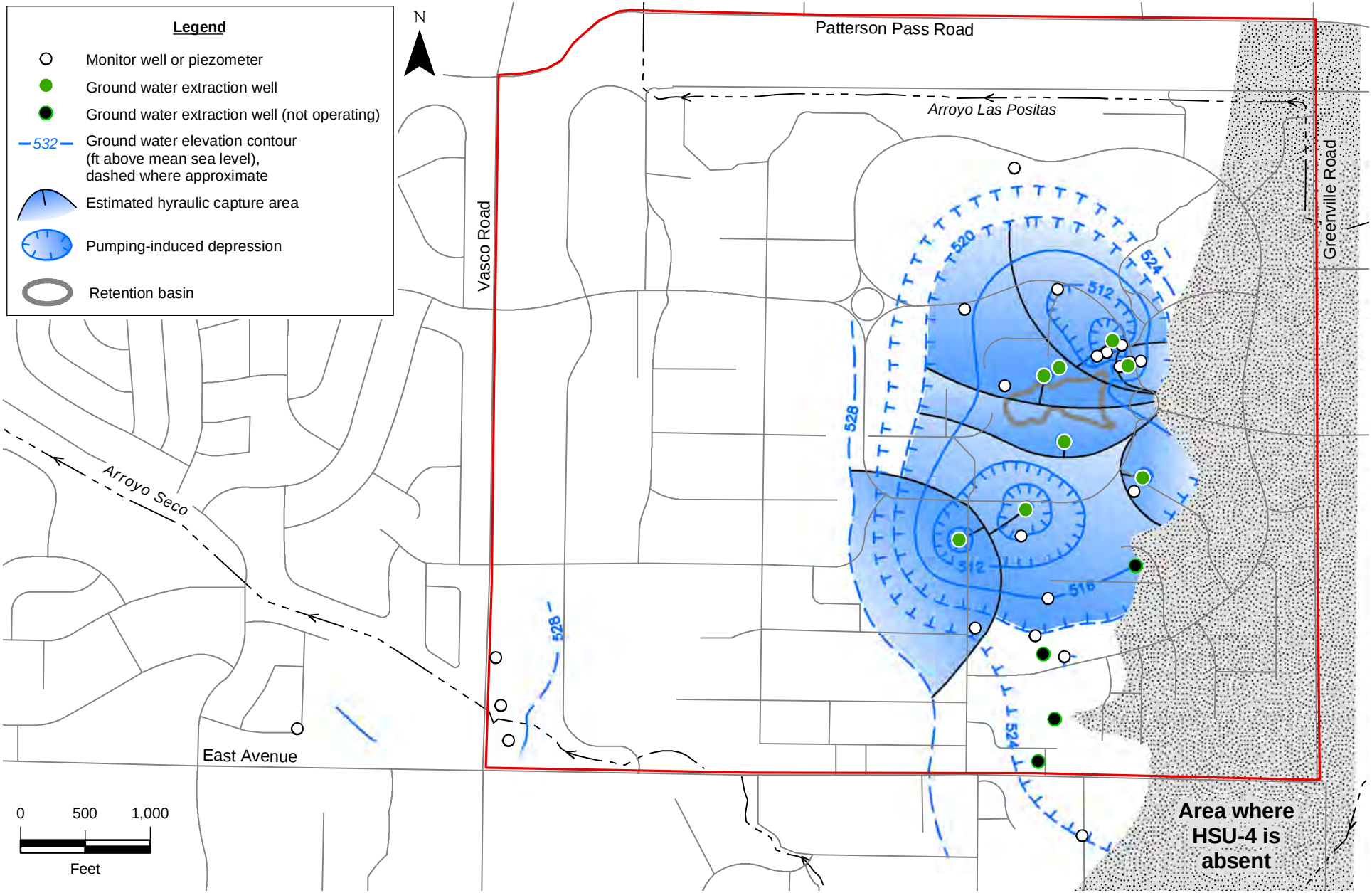


Figure 6. Ground water elevation contour map based on 33 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, October 2010.

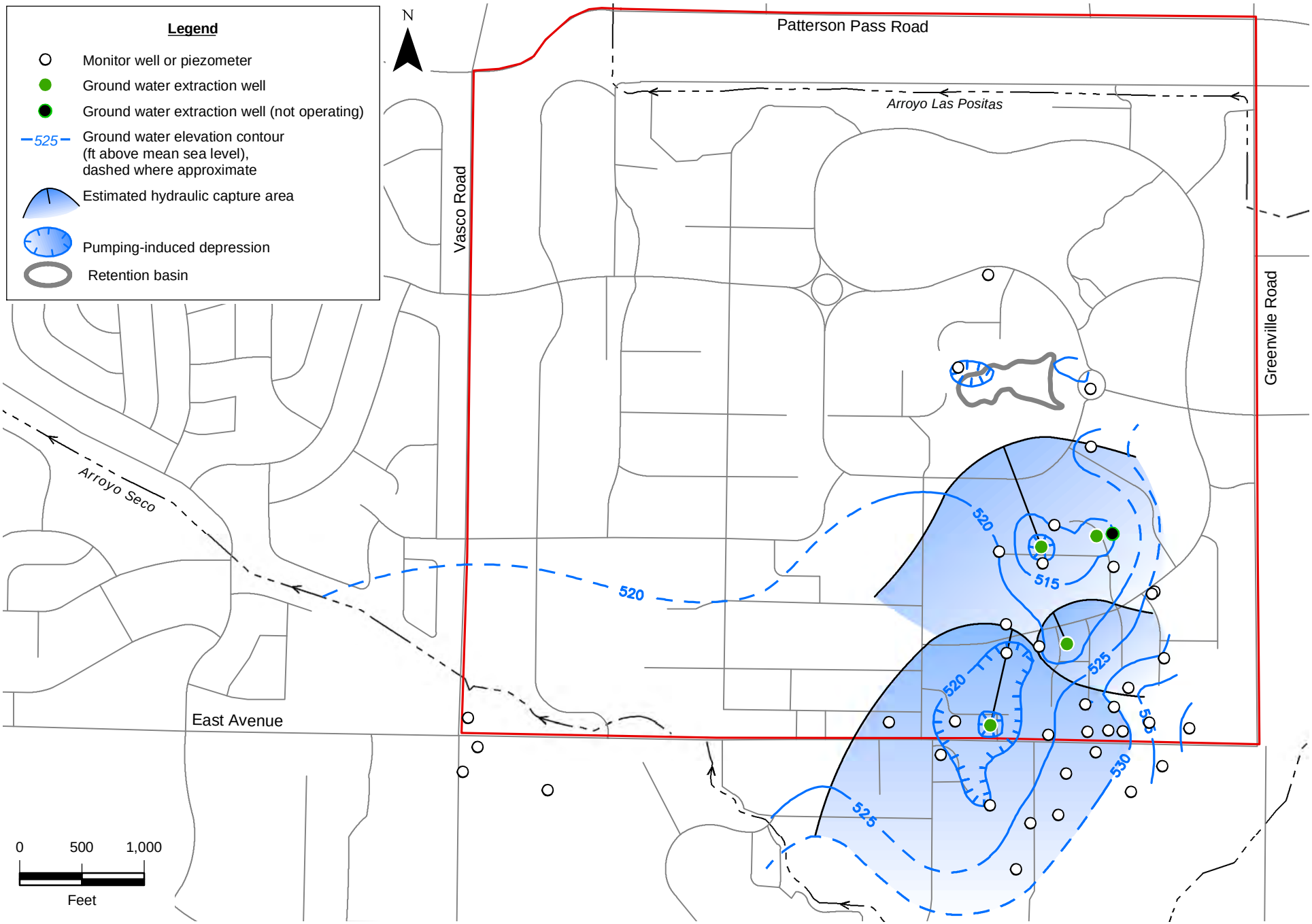


Figure 7. Ground water elevation contour map based on 44 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, October 2010.