LLNL Livermore Site First Quarter 2016 Self-Monitoring Report

This quarterly report presents the first quarter 2016 self-monitoring data for the ground water and soil vapor treatment facilities 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 first quarter of 2016 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). Metals and radiological analyses are presented in Tables A-6 and A-7, respectively. During the first quarter of 2016, 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.

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 C. The contour maps for the individual HSUs are based on data collected during the first quarter of 2016.

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Table 1. Volumes of ground water and soil vapor extracted and treated at the Livermore Site, January through March 2016.

Treatment Area[a]	Month	Volume of ground water extracted (Kgal)[b]	Volume of vapor extracted (Kcf)[b]
TFA	January	5,271	-
	February	9,025	-
	March	9,338	-
TFB	January	2,444	-
	February	2,535	-
	March	2,566	-
TFC	January	1,966	-
	February	2,563	-
	March	2,430	-
TFD	January	4,281	1,800
	February	4,259	1,844
	March	5,607	1,839
TFE	January	2,455	626
	February	2,491	713
	March	2,490	628
TFG	January	266	-
	February	261	-
	March	255	-
TFH	January	666	2,837
	February	666	3,244
	March	700	3,147
TOTAL[c]		62,535	16,678

[a] Totals include ground water and soil vapor extracted from the following facilities:
TFA area: TFA, TFA-E
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
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.

Kcf = Thousands of cubic feet.
Kgal = Thousands of gallons.

Table 2. VOC mass removed at the Livermore Site, January through March 2016.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg)[b]
TFA	0.7	-	0.7
TFB	0.5	-	0.5
TFC	0.8	-	0.8
TFD	3.5	0.8	4.3
TFE	2.0	0.4	2.4
TFG	0.07	-	0.1
TFH	0.3	3.5	3.8
TOTAL[b]	7.9	4.7	12.6

Table 3. Historical summary of volumes of water and soil vapor removed at the Livermore Site through March 2016.

Treatment Area[a]	Volume of ground water extracted (Mgal)	Volume of vapor extracted (Mcf)
TFA	2,311	-
TFB	564	-
TFC	630	-
TFD	1,281	159
TFE	471	226
TFG	101	-
TFH	197	342
TOTAL[b]	5,555	727

Table 4. Historical summary of VOC mass removed from water and soil vapor at the Livermore Site through March 2016.

Treatment Area[a]	VOC mass removed from ground water (kg)	VOC mass removed from soil vapor (kg)	Total VOC mass removed (kg)[b]
TFA	223	-	223
TFB	88	-	88
TFC	120	-	120
TFD	922	104	1,026
TFE	248	161	409
TFG	13	-	13
TFH	45	1,312	1,357
TOTAL[b]	1,659	1,577	3,236

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

Abbreviations for Tables 2, 3 and 4:
kg = Kilograms.
Mcf = Millions of cubic feet.
Mgal = Millions of gallons.
VOC = Volatile organic compound.

Attachment A

VOC, Chromium, Bioassay, Turbidity, Chloride, Metals, and Radiological Analyses

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

Sample Station	Date Sampled	Analytic Method	CTET	CFORM	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	05-JAN-16	E624MOD	<0.5	**0.9**	**0.59**	<0.5	**0.96**	<1	<0.5	**4.5**	<0.5	**0.53**	<0.5
TFA-I001	01-FEB-16	E624MOD	<0.5	**0.97**	**0.57**	<0.5	**0.95**	<1	<0.5	**5**	<0.5	**0.55**	<0.5
TFA-I001	01-MAR-16	E624MOD	<0.5	**0.92**	**0.57**	<0.5	**0.93**	<1	<0.5	**4.6**	<0.5	**0.54**	<0.5
TFA-E001	05-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	01-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E001	01-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFA-E[a]													
W-254	14-JAN-16	E624MOD	<0.5	<0.5	**0.65**	<0.5	**0.58**	**2**	<0.5	**63**	<0.5	**2.1**	<0.5
TFB													
TFB-I002	04-JAN-16	E624MOD	**0.52**	**2.1**	<0.5	<0.5	**1.1**	<1	**2.8**	**1**	<0.5	**11**	<0.5
TFB-I002	01-FEB-16	E624MOD	**0.53**	**2.3**	<0.5	<0.5	**1.2**	<1	**2.9**	**1.1**	<0.5	**11**	<0.5
TFB-I002	01-MAR-16	E624MOD	**0.58**	**2.5**	<0.5	<0.5	**1.2**	<1	**3.1**	**1.2**	<0.5	**13**	<0.5
TFB-E002	04-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	01-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFB-E002	01-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC													
TFC-I003	14-JAN-16	E624MOD	<0.5	**1**	<0.5	<0.5	**0.67**	<1	**8.9**	**3.2**	<0.5	**12**	<0.5
TFC-I003	01-FEB-16	E624MOD	<0.5	**1**	<0.5	<0.5	**0.66**	<1	**8.8**	**3.3**	<0.5	**12**	<0.5
TFC-I003	01-MAR-16	E624MOD	<0.5	**1**	<0.5	<0.5	**0.65**	<1	**8.6**	**3.2**	<0.5	**12**	<0.5
TFC-E003	14-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	01-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFC-E003	01-MAR-16	E624MOD	<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	13-JAN-16	E624MOD	<0.5	**8.3**	<0.5	<0.5	**0.62**	<1	**13**	**0.86**	<0.5	**7.7**	**2.6**
MTU1-I	04-FEB-16	E624MOD	<0.5	**11**	<0.5	<0.5	**0.77**	<1	**13**	**0.82**	<0.5	**9.1**	**3.9**
MTU1-I	08-MAR-16	E624MOD	<0.5	**11**	<0.5	<0.5	**0.72**	<1	**12**	**0.78**	<0.5	**8.4**	**3.8**
MTU1-E	13-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	04-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU1-E	08-MAR-16	E624MOD	<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	CTET	CFORM	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)	-	-	-	-	-	->
TFC-SE													
PTU1-I	05-JAN-16	E624MOD	<0.5	**5.1**	<0.5	<0.5	**2**	<1	**15**	**0.7**	<0.5	**14**	**0.86**
PTU1-I	08-FEB-16	E624MOD	<0.5	**5.6**	<0.5	<0.5	**1.8**	<1	**16**	**0.73**	<0.5	**15**	**1**
PTU1-I	08-MAR-16	E624MOD	<0.5	**5.3**	<0.5	<0.5	**1.5**	<1	**15**	**0.75**	<0.5	**14**	**0.95**
PTU1-E	05-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU1-E	08-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD[bc]													
TFD-I004	10-FEB-16	E624MOD	**0.69**	**1.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**9.8**	**16**
TFD-I004	12-FEB-16	E624MOD	**0.69**	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	**0.95**	<0.5	**16**	**16**
TFD-I004	16-FEB-16	E624MOD	**1.3**	**1.6**	<0.5	<0.5	<0.5	<1	<0.5	**0.84**	<0.5	**39**	**12**
TFD-I004	17-MAR-16	E624MOD	**1.6**	**1.8**	<0.5	<0.5	<0.5	<1	<0.5	**0.74**	<0.5	**35**	**12**
TFD-E004	16-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**0.52**	<0.5
TFD-E004	17-MAR-16	E624MOD	<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	20-JAN-16	E624MOD	**3.3**	**1.1**	<0.5	**0.55**	**4.4**	<1	<0.5	**3.6**	<0.5	**71**	**0.5**
PTU8-I	04-FEB-16	E624MOD	**4**	**1.3**	<0.5	**0.58**	**5.2**	<1	<0.5	**4.1**	<0.5	**83**	**0.59**
PTU8-I	08-MAR-16	E624MOD	**3.5**	**1**	<0.5	**0.54**	**5**	<1	<0.5	**4.4**	<0.5	**73**	**0.61**
PTU8-E	20-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	04-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU8-E	08-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFD-HPD													
PTU10-I	13-JAN-16	E624MOD	**1.4**	**0.51**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**33**	<0.5
PTU10-I	11-FEB-16	E624MOD	**1.4**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**33**	<0.5
PTU10-I	09-MAR-16	E624MOD	**1.4**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**33**	<0.5
PTU10-E	13-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU10-E	11-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU10-E	09-MAR-16	E624MOD	<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	05-JAN-16	E624MOD	**0.55**	**2**	<0.5	<0.5	**3.1**	<1	**1**	**4.7**	<0.5	**41**	<0.5
PTU2-I	04-FEB-16	E624MOD	<0.5	**2.3**	<0.5	<0.5	**3.2**	<1	**1.2**	**5.4**	<0.5	**42**	<0.5
PTU2-I	09-MAR-16	E624MOD	**0.51**	**1.8**	<0.5	<0.5	**3.3**	<1	**0.97**	**5**	<0.5	**40**	<0.5

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

Sample Station	Date Sampled	Analytic Method	CTET	CFORM	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-S (cont.)													
PTU2-E	05-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	04-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU2-E	09-MAR-16	E624MOD	<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	13-JAN-16	E624MOD	<0.5	**2.5**	**0.59**	**1.1**	**8.2**	<1	**0.57**	**21**	<0.5	**73**	<0.5
PTU11-I	08-FEB-16	E624MOD	**0.5**	**3**	**0.63**	**1.2**	**9.5**	<1	**0.71**	**23**	<0.5	**79**	<0.5
PTU11-I	03-MAR-16	E624MOD	<0.5	**2.7**	**0.61**	**1.2**	**9**	<1	**0.7**	**24**	<0.5	**80**	<0.5
PTU11-E	13-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU11-E	03-MAR-16	E624MOD	<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	14-JAN-16	E624MOD	**2.5**	**2.3**	<0.5	**1.1**	**6.4**	<1	**0.64**	**11**	<0.5	**100**	**8.1**
PTU12-I	03-FEB-16	E624MOD	**2.3**	**2.6**	<0.5	**1.2**	**6.4**	<1	**0.68**	**12**	<0.5	**100**	**8.4**
PTU12-I	08-MAR-16	E624MOD	**2.7**	**2.4**	<0.5	**1.2**	**6.7**	<1	**0.66**	**11**	<0.5	**100**	**9.3**
PTU12-E	14-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	03-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU12-E	08-MAR-16	E624MOD	<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	06-JAN-16	E624MOD	<0.5	**4.7**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.3**	**26**
PTU6-I	08-FEB-16	E624MOD	<0.5	**4.8**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.4**	**28**
PTU6-I	08-MAR-16	E624MOD	<0.5	**5.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.5**	**30**
PTU6-E	06-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU6-E	08-MAR-16	E624MOD	<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	07-JAN-16	E624MOD	**0.61**	**5**	<0.5	**0.68**	**7.1**	<1	**5.2**	**9.8**	<0.5	**88**	<0.5
PTU3-I	03-FEB-16	E624MOD	**0.63**	**4.8**	<0.5	**0.56**	**7**	<1	**5.7**	**10**	<0.5	**90**	<0.5
PTU3-I	01-MAR-16	E624MOD	**0.61**	**4.8**	<0.5	**0.58**	**6.9**	<1	**5.6**	**9.5**	<0.5	**86**	<0.5
PTU3-E	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	03-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU3-E	01-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5

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Sample Station	Date Sampled	Analytic Method	CTET	CFORM	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)	-	-	-	-	-	->
TFE-HS													
GTU07-I	13-JAN-16	E624MOD	**3.3**	**2**	<0.5	<0.5	**5.5**	**2.4**	**1.8**	**4.6**	<0.5	**220**	<0.5
GTU07-I	11-FEB-16	E624MOD	**2.6**	**1.9**	<0.5	<0.5	**4.8**	**2.3**	**1.3**	**4.1**	<0.5	**210**	<0.5
GTU07-I	09-MAR-16	E624MOD	**3.2**	**1.9**	<0.5	<0.5	**6**	**2.4**	**1.7**	**4.2**	<0.5	**200**	<0.5
GTU07-E	13-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	11-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU07-E	09-MAR-16	E624MOD	<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	07-JAN-16	E624MOD	<0.5	**1.1**	<0.5	<0.5	<0.5	<1	**1**	<0.5	<0.5	**9.8**	<0.5
PTU9-I	03-FEB-16	E624MOD	<0.5	**0.98**	<0.5	<0.5	<0.5	<1	**0.99**	<0.5	<0.5	**9.7**	<0.5
PTU9-I	08-MAR-16	E624MOD	<0.5	**1**	<0.5	<0.5	<0.5	<1	**1**	<0.5	<0.5	**9.5**	<0.5
PTU9-E	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	03-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU9-E	08-MAR-16	E624MOD	<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	07-JAN-16	E624MOD	**2.3**	**3.3**	<0.5	<0.5	**10**	<1	**4.5**	**7.3**	<0.5	**160**	<0.5
MTU04-I	03-FEB-16	E624MOD	**2.1**	**3.9**	<0.5	**0.57**	**11**	<1	**5.5**	**8.5**	<0.5	**170**	<0.5
MTU04-I	01-MAR-16	E624MOD	**2.1**	**3.6**	<0.5	**0.52**	**10**	<1	**5.4**	**8.1**	<0.5	**150**	<0.5
MTU04-E	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	03-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU04-E	01-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
TFE-SW													
MTU03-I	12-JAN-16	E624MOD	**1.1**	**1.8**	<0.5	<0.5	**0.6**	<1	**0.54**	**1.1**	<0.5	**26**	<0.5
MTU03-I	11-FEB-16	E624MOD	**1.2**	**1.9**	<0.5	<0.5	**0.73**	<1	**0.54**	**1.2**	<0.5	**30**	<0.5
MTU03-I	09-MAR-16	E624MOD	**1**	**1.8**	<0.5	<0.5	**0.6**	<1	**0.52**	**0.97**	<0.5	**25**	<0.5
MTU03-E	12-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	11-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU03-E	09-MAR-16	E624MOD	<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	06-JAN-16	E624MOD	<0.5	**0.94**	<0.5	<0.5	**1.5**	<1	**7.3**	**5.2**	<0.5	**23**	<0.5
MTU05-I	03-FEB-16	E624MOD	<0.5	**0.91**	<0.5	<0.5	**1.4**	<1	**7.1**	**5.5**	<0.5	**23**	<0.5
MTU05-I	01-MAR-16	E624MOD	<0.5	**0.89**	<0.5	<0.5	**1.3**	<1	**6.4**	**5.2**	<0.5	**22**	<0.5

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

Sample Station	Date Sampled	Analytic Method	CTET	CFORM	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)	-	-	-	-	-	->
TFE-W (cont.)													
MTU05-E	06-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	03-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU05-E	01-MAR-16	E624MOD	<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	20-JAN-16	E624MOD	**4.5**	**7.9**	<0.5	<0.5	**0.74**	<1	<0.5	**1**	<0.5	**4.4**	<0.5
GTU01-I	08-FEB-16	E624MOD	**4.3**	**8.8**	<0.5	<0.5	**0.81**	<1	**0.53**	**1**	<0.5	**4.6**	<0.5
GTU01-I	08-MAR-16	E624MOD	**4.4**	**8.5**	<0.5	<0.5	**0.79**	<1	**0.51**	**1**	<0.5	**4.5**	<0.5
GTU01-E	20-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU01-E	08-MAR-16	E624MOD	<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	13-JAN-16	E624MOD	<0.5	**1.4**	<0.5	<0.5	**1.4**	<1	**1.3**	**18**	<0.5	**5**	<0.5
MTU02-I	08-FEB-16	E624MOD	<0.5	**1.4**	<0.5	<0.5	**1.4**	<1	**1.5**	**19**	<0.5	**5.2**	<0.5
MTU02-I	08-MAR-16	E624MOD	<0.5	**1.4**	<0.5	<0.5	**1.4**	<1	**1.4**	**18**	<0.5	**5**	<0.5
MTU02-E	13-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
MTU02-E	08-MAR-16	E624MOD	<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-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.4**	<0.5
PTU5-I	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.4**	<0.5
PTU5-I	03-MAR-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.4**	<0.5
PTU5-E	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
PTU5-E	03-MAR-16	E624MOD	<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-JAN-16	E624MOD	<0.5	**1.6**	<0.5	<0.5	<0.5	<1	**2.6**	**0.86**	<0.5	**18**	<0.5
GTU03-I	08-FEB-16	E624MOD	<0.5	**1.8**	<0.5	<0.5	<0.5	<1	**2.9**	**0.94**	<0.5	**21**	<0.5
GTU03-I	08-MAR-16	E624MOD	<0.5	**1.5**	<0.5	<0.5	<0.5	<1	**2.8**	**0.89**	<0.5	**18**	<0.5
GTU03-E	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	08-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU03-E	08-MAR-16	E624MOD	<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	CTET	CFORM	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)	-	-	-	-	-	->
TF518-N[d]													
W-1410	21-JAN-16	E624MOD	**1.3**	**1.8**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**9.9**	<0.5
TF5475-1[e]													
W-1302-2	21-JAN-16	E624MOD	**2.3**	**35**	**1.4**	**4.8**	**27**	**2**	**8.9**	**56**	<0.5	**420**	<0.5
TF5475-2													
GTU09-I	12-JAN-16	E624MOD	**1.5**	**15**	**0.51**	**2.4**	**13**	<1	**3.5**	**26**	<0.5	**220**	<0.5
GTU09-I	06-FEB-16	E624MOD	**1.4**	**15**	<0.5	**2.3**	**13**	<1	**3.5**	**27**	<0.5	**230**	<0.5
GTU09-I	03-MAR-16	E624MOD	**1.3**	**13**	<0.5	**2**	**11**	<1	**3**	**23**	<0.5	**190**	<0.5
GTU09-E	12-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	06-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
GTU09-E	03-MAR-16	E624MOD	<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-E did not operate during the reporting period due to the single extraction well W-254 being dry due to dewatering in the area.

[b] TFD was secured to perform system upgrades as part of the Remediation Evaluation (REVAL) process and connect new ground water extraction wells (W-3101 and W-3102) to the facility.

[c] TFD was sampled multiple times during the reporting period due to REVAL Operational Testing & Verification of the system.

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

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

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

Notes:

CTET = Carbon tetrachloride

CFORM = 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	CTET	CFORM	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													
W-109	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**0.53**	**0.88**	<0.5	<0.5	<0.5
W-262	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-404	17-FEB-16	E624MOD	<0.5	<0.5	**0.57**	<0.5	**0.81**	<1	<0.5	**3.5**	<0.5	<0.5	<0.5
W-408	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**0.54**	<0.5	<0.5	<0.5	<0.5
W-415	17-FEB-16	E624MOD	<0.5	**2**	**0.56**	<0.5	**1.2**	<1	<0.5	**8.8**	<0.5	**1**	<0.5
W-457	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**0.53**	<1	<0.5	**4.4**	<0.5	<0.5	<0.5
W-518	17-FEB-16	E624MOD	<0.5	<0.5	**5.7**	<0.5	**3**	<1	<0.5	**4.1**	<0.5	<0.5	<0.5
W-522	17-FEB-16	E624MOD	<0.5	<0.5	**1.3**	<0.5	**0.86**	<1	<0.5	**2.5**	<0.5	<0.5	<0.5
W-605	17-FEB-16	E624MOD	<0.5	<0.5	**0.64**	<0.5	**0.8**	<1	<0.5	**9.9**	<0.5	**0.54**	<0.5
W-614	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**3.9**	<0.5	<0.5	<0.5
W-712	17-FEB-16	E624MOD	**2.8**	**3.1**	**1**	<0.5	**3.5**	<1	<0.5	**2**	<0.5	**3.2**	<0.5
W-714	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**5**	<0.5	<0.5	<0.5
W-903	17-FEB-16	E624MOD	<0.5	<0.5	**0.66**	<0.5	**0.57**	<1	<0.5	**3.8**	<0.5	<0.5	<0.5
W-904	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**0.59**	<1	<0.5	**3.9**	<0.5	<0.5	<0.5
W-1001	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5
W-1004	17-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**1.8**	<0.5	<0.5	<0.5
W-1009	17-FEB-16	E624MOD	**0.96**	**4.2**	**0.57**	<0.5	**2.5**	<1	<0.5	**8.7**	<0.5	**1.7**	<0.5
TFA-E[a]													
W-254	14-JAN-16	E624MOD	<0.5	<0.5	**0.65**	<0.5	**0.58**	**2**	<0.5	**63**	<0.5	**2.1**	<0.5
TFB													
W-357	04-JAN-16	E624MOD	**1.4**	**3.2**	<0.5	<0.5	**1**	<1	**3**	**1.1**	<0.5	**30**	<0.5
W-610	04-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**0.68**	<1	**0.86**	<0.5	<0.5	**1.1**	<0.5
W-620	04-JAN-16	E624MOD	<0.5	**0.66**	<0.5	<0.5	**0.73**	<1	**1.2**	**0.8**	<0.5	**2.6**	<0.5
W-621	04-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**1.1**	<0.5
W-655	04-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**5.9**	<0.5	<0.5	**0.58**	<0.5
W-704	04-JAN-16	E624MOD	**0.56**	**3.7**	<0.5	<0.5	**2**	<1	**5.5**	**2.2**	<0.5	**17**	<0.5
W-1423	04-JAN-16	E624MOD	**0.74**	**4.4**	<0.5	<0.5	**3**	<1	**2.9**	**1.6**	<0.5	**8.6**	<0.5
W-2501	04-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	**1.1**	<0.5	<0.5	**3.5**	<0.5
W-2502	04-JAN-16	E624MOD	<0.5	**2.1**	<0.5	<0.5	**1.2**	<1	<0.5	<0.5	<0.5	**2.1**	<0.5
TFC													
W-701	14-JAN-16	E624MOD	<0.5	**1.5**	<0.5	<0.5	**1.1**	<1	**18**	**2.2**	<0.5	**19**	<0.5
W-1104	14-JAN-16	E624MOD	<0.5	**0.54**	<0.5	<0.5	<0.5	<1	**1.9**	**3.8**	<0.5	**7.1**	<0.5
W-1116	14-JAN-16	E624MOD	<0.5	**0.87**	<0.5	<0.5	<0.5	<1	**4.1**	**3.7**	<0.5	**8.4**	<0.5

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

Extraction Well	Date Sampled	Analytic Method	CTET	CFORM	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)	-	-	-	-	-	->
TFC-E													
W-368	13-JAN-16	E624MOD	<0.5	**3.7**	<0.5	<0.5	<0.5	<1	**15**	**2.5**	<0.5	**11**	**2.2**
W-413	13-JAN-16	E624MOD	<0.5	**9.8**	<0.5	<0.5	**0.73**	<1	**12**	<0.5	<0.5	**6.8**	**2.8**
TFC-SE													
W-1213	28-JAN-16	E624MOD	<0.5	**4.7**	<0.5	<0.5	**2.8**	<1	**11**	<0.5	<0.5	**15**	<0.5
W-2201	28-JAN-16	E624MOD	<0.5	**5.4**	<0.5	<0.5	**1.5**	<1	**18**	**0.94**	<0.5	**15**	**1.1**
TFD													
W-351	04-FEB-16	E624MOD	**4**	**0.88**	<0.5	<0.5	**1.2**	**1.8**	**0.73**	**1.4**	<0.5	**83**	**2**
W-653	06-FEB-16	E624MOD	**12**	**4.6**	<0.5	<0.5	<0.5	<1	**1.9**	<0.5	<0.5	**350**	<0.5
W-2011	05-FEB-16	E624MOD	<0.5	**0.55**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.7**	<0.5
W-2101	05-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**9.4**	<0.5
W-2102	04-FEB-16	E624MOD	**5.9**	**2.8**	<0.5	<0.5	<0.5	<1	**0.83**	<0.5	<0.5	**190**	<0.5
W-1206	03-FEB-16	E624MOD	<0.5	**0.84**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**5.2**	**2.4**
W-1208	03-FEB-16	E624MOD	**1**	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**14**	**31**
W-3101	03-FEB-16	E624MOD	<0.5	**3.4**	<0.5	<0.5	**2.5**	<1	**1.3**	**6.2**	<0.5	**53**	<0.5
W-3102	03-FEB-16	E624MOD	**0.51**	**1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.9**	**5.6**
TFD-E													
W-2006	20-JAN-16	E624MOD	**1.1**	**2**	**3.5**	**10**	**98**	**1.5**	<0.5	**86**	<0.5	**560**	<0.5
W-1301	20-JAN-16	E624MOD	**6.8**	**2.6**	**1.7**	**5.3**	**47**	<1	**0.66**	**36**	<0.5	**260**	<0.5
W-1303	20-JAN-16	E624MOD	**2.5**	**1.7**	<0.5	**0.88**	**3.2**	<1	<0.5	**3.5**	<0.5	**100**	**4**
W-1306	20-JAN-16	E624MOD	**1.8**	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	**1.6**	<0.5	**51**	<0.5
W-1307	20-JAN-16	E624MOD	**3.3**	**0.78**	<0.5	<0.5	**0.54**	<1	<0.5	**0.74**	<0.5	**45**	<0.5
W-1550	20-JAN-16	E624MOD	**5.2**	**3.5**	<0.5	<0.5	**0.72**	<1	<0.5	**1.8**	<0.5	**130**	<0.5
W-2203	20-JAN-16	E624MOD	**7.2**	**2.2**	<0.5	<0.5	**1.6**	<1	**1.5**	**4.8**	<0.5	**83**	<0.5
TFD-HPD													
W-1254	13-JAN-16	E624MOD	**1.4**	**0.5**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**32**	<0.5
W-1650	25-JAN-16	E624MOD	**2**	**1.2**	<0.5	<0.5	<0.5	<1	**0.54**	<0.5	<0.5	**130**	<0.5
W-1653	25-JAN-16	E624MOD	<0.5	**0.9**	<0.5	<0.5	<0.5	**7**	<0.5	<0.5	<0.5	**47**	<0.5
W-1655	25-JAN-16	E624MOD	<0.5	**1.4**	<0.5	<0.5	<0.5	<1	<0.5	**2.5**	<0.5	**40**	<0.5
W-1657	25-JAN-16	E624MOD	**9**	**4.5**	<0.5	<0.5	<0.5	<1	**2.7**	<0.5	<0.5	**1100**	<0.5
TFD-S													
W-1503	05-JAN-16	E624MOD	**1**	**1.4**	<0.5	<0.5	**1.1**	<1	**0.56**	**1.7**	<0.5	**33**	<0.5
W-1504	05-JAN-16	E624MOD	<0.5	**1.1**	<0.5	<0.5	**6.9**	<1	**1.7**	**10**	<0.5	**56**	<0.5
W-1510	05-JAN-16	E624MOD	<0.5	**1.5**	<0.5	<0.5	**1.2**	<1	<0.5	**2.5**	<0.5	**18**	<0.5
W-2601	05-JAN-16	E624MOD	<0.5	**5**	<0.5	<0.5	**2.4**	<1	**1.4**	**4.5**	<0.5	**51**	<0.5

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

Extraction Well	Date Sampled	Analytic Method	CTET	CFORM	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-SE													
W-314	13-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**0.7**	<1	<0.5	**1.2**	<0.5	**5**	<0.5
W-2005	13-JAN-16	E624MOD	<0.5	**1**	<0.5	**0.53**	**8**	<1	<0.5	**19**	<0.5	**39**	<0.5
W-1308	13-JAN-16	E624MOD	**0.62**	**1.4**	**0.92**	**3.1**	**15**	<1	<0.5	**52**	<0.5	**100**	<0.5
W-1403	13-JAN-16	E624MOD	**1.8**	**14**	**1.1**	**4.2**	**32**	<1	**3.3**	**73**	<0.5	**290**	<0.5
W-1904[b]	02-JUN-14	E601	<0.5	<0.5	<0.5	<0.5	**1.4**	<1	<0.5	**13**	<0.5	**6**	<0.5
SIP-ETC-201	26-JAN-16	E624MOD	<0.5	**0.73**	**2.6**	**0.95**	**75**	<1	<0.5	**380**	<0.5	**230**	<0.5
TFD-SS													
W-1523	14-JAN-16	E624MOD	**7.1**	**3.6**	<0.5	**1.8**	**14**	<1	**1.9**	**17**	<0.5	**200**	<0.5
W-1601	14-JAN-16	E624MOD	**3.3**	**3.2**	**1.2**	**4.4**	**19**	<1	**1.1**	**71**	<0.5	**200**	<0.5
W-1602	14-JAN-16	E624MOD	<0.5	**1.6**	<0.5	<0.5	<0.5	<1	<0.5	**0.86**	<0.5	**7.9**	**2.5**
W-1603	14-JAN-16	E624MOD	**1.4**	**1.9**	<0.5	**0.98**	**4.3**	<1	<0.5	**6.7**	<0.5	**72**	**13**
TFD-W													
W-1215	06-JAN-16	E624MOD	<0.5	**7.6**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**4.3**	**15**
W-1216	06-JAN-16	E624MOD	<0.5	**4.1**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**2.1**	**18**
W-1902	06-JAN-16	E624MOD	<0.5	**3.3**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.7**	**39**
TFE-E													
W-566	07-JAN-16	E624MOD	**0.83**	**6.3**	<0.5	**0.83**	**7.1**	<1	**6.6**	**9.8**	<0.5	**100**	<0.5
W-1109	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**14**	<1	**2.5**	**23**	<0.5	**100**	<0.5
W-1903	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**15**	<1	**3.9**	**13**	<0.5	**29**	<0.5
W-1909[b]	14-NOV-11	E601	<0.5	<0.5	<0.5	<0.5	**9.1**	**1.1**	<0.5	**5.4**	<0.5	**6.5**	<0.5
W-2305	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**2.6**	<1	**0.6**	**3**	<0.5	**4.8**	<0.5
TFE-HS													
W-2105	13-JAN-16	E624MOD	**2.3**	**1.5**	<0.5	<0.5	**4**	**1.8**	**1.6**	**4.9**	<0.5	**100**	<0.5
W-2801	13-JAN-16	E624MOD	**3.1**	**1.9**	<0.5	<0.5	**5.5**	**2.4**	**2**	**6.4**	<0.5	**220**	<0.5
TFE-NW													
W-1211	07-JAN-16	E624MOD	<0.5	**1.1**	<0.5	<0.5	<0.5	<1	**1.1**	<0.5	<0.5	**7.3**	<0.5
W-1409	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**0.91**	<0.5	**19**	<0.5
TFE-SE													
W-359	07-JAN-16	E624MOD	**2.3**	**3.3**	<0.5	<0.5	**10**	<1	**4.5**	**7.3**	<0.5	**160**	<0.5
TFE-SW													
W-1516	12-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**6.9**	<0.5
W-1518	12-JAN-16	E624MOD	<0.5	**1.5**	<0.5	<0.5	<0.5	<1	**0.55**	<0.5	<0.5	**7.1**	<0.5

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

Extraction Well	Date Sampled	Analytic Method	CTET	CFORM	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)	-	-	-	-	-	->
TFE-SW (cont.)													
W-1520	12-JAN-16	E624MOD	**3.8**	**2.5**	<0.5	**0.89**	**0.71**	<1	<0.5	**3.7**	<0.5	**81**	<0.5
W-1522	12-JAN-16	E624MOD	**7.7**	**4.6**	<0.5	**1.8**	**5.1**	**4.5**	**0.6**	**8.1**	<0.5	**190**	<0.5
TFE-W													
W-292	06-JAN-16	E624MOD	<0.5	**0.86**	<0.5	<0.5	**1**	**2.1**	**1.2**	**1.2**	<0.5	**18**	<0.5
W-305	06-JAN-16	E624MOD	<0.5	**0.89**	<0.5	<0.5	**1.6**	<1	**9.8**	**7.5**	<0.5	**26**	<0.5
TFG-1													
W-1111	20-JAN-16	E624MOD	**4.5**	**7.9**	<0.5	<0.5	**0.74**	<1	<0.5	**1**	<0.5	**4.4**	<0.5
TFG-N													
W-1806	13-JAN-16	E624MOD	<0.5	**1**	<0.5	<0.5	<0.5	<1	<0.5	**9.3**	<0.5	**3.2**	<0.5
W-1807	13-JAN-16	E624MOD	<0.5	**1.4**	<0.5	<0.5	**1.4**	<1	**1.4**	**18**	<0.5	**5**	<0.5
TF406													
W-1309	07-JAN-16	E624MOD	**0.64**	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.1**	<0.5
W-1310	07-JAN-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**3.5**	<0.5
TF406-NW													
W-1801	07-JAN-16	E624MOD	<0.5	**1.6**	<0.5	<0.5	<0.5	<1	**2.6**	**0.86**	<0.5	**18**	<0.5
TF518-N[a]													
W-1410	21-JAN-16	E624MOD	**1.3**	**1.8**	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	**9.9**	<0.5
TF518-PZ													
W-1615	11-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	**2.8**	<1	<0.5	**30**	<0.5	**150**	<0.5
W-518-1913[b]	23-MAY-11	E601	<0.5	<0.5	<0.5	<0.5	**0.76**	<1	<0.5	**3.8**	<0.5	**29**	<0.5
W-518-1914	11-FEB-16	E624MOD	<0.5	<0.5	<0.5	<0.5	<0.5	**3.2**	<0.5	**56**	<0.5	**2.4**	<0.5
W-518-1915	11-FEB-16	E624MOD	<0.5	**0.63**	<0.5	<0.5	**2.7**	<1	<0.5	**30**	<0.5	**340**	<0.5
SVB-518-201[b]	07-FEB-08	E601	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	**35**	<0.5	**8.5**	<0.5
SVB-518-204[b]	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[a]													
W-1302-2	21-JAN-16	E624MOD	**2.3**	**35**	**1.4**	**4.8**	**27**	**2**	**8.9**	**56**	<0.5	**420**	<0.5
TF5475-2													
W-1108	12-JAN-16	E624MOD	**1.5**	**15**	**0.51**	**2.3**	**13**	<1	**3.5**	**27**	<0.5	**220**	<0.5
W-1415[b]	04-SEP-14	E601	**1.4**	**14**	<0.5	**2.2**	**12**	<1	**4.2**	**24**	<0.5	**210**	<0.5

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

Extraction Well	Date Sampled	Analytic Method	CTET	CFORM	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)	-	-	-	-	-	->
TF5475-3[a]													
W-1604[b]	09-DEC-15	E624MOD	**2.1**	**25**	**0.93**	**7**	**20**	**1.2**	**4.4**	**49**	<0.5	**440**	<0.5
W-1605	16-FEB-16	E624MOD	<0.5	**23**	<0.5	**2.1**	**0.93**	<1	<0.5	**3**	<0.5	**39**	<0.5
W-1608[b]	13-OCT-15	E624MOD	<0.5	**11**	<0.5	**1.6**	**0.67**	<1	<0.5	**2**	<0.5	**20**	<0.5
W-1609	16-FEB-16	E624MOD	<0.5	**31**	<0.5	**2.1**	**4.6**	<1	**0.76**	**15**	<0.5	**100**	<0.5

Notes on following page.

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

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

[b] Most recent VOC sample results available.

Notes:

CTET = Carbon tetrachloride

CFORM = 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	CTET	CFORM	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	25-FEB-16	TO15DIT	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	**0.24**	<0.034	**0.083**	<0.034
W-ETC-2003	25-FEB-16	TO15DIT	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	<0.0086	**0.06**	<0.0086	**0.033**	<0.0086
W-ETC-2004A	25-FEB-16	TO15DIT	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	**0.22**	<0.035	**0.086**	<0.035
W-ETC-2004B	25-FEB-16	TO15DIT	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	**0.36**	<0.35	**1.4**	<0.35
SIP-ETC-201	25-FEB-16	TO15DIT	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	**0.39**	<0.078	**0.5**	<0.078
VTFE-ELM													
W-1903	08-MAR-16	TO15DIT	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1	**0.3**	<0.1	**0.81**	<0.1
W-1909[a]	16-NOV-15	TO15DIT	<0.036	<0.036	<0.036	<0.036	**0.25**	<0.036	**0.11**	**0.1**	<0.036	**0.13**	<0.036
W-2305	08-MAR-16	TO15DIT	<0.052	<0.052	<0.052	<0.052	**0.18**	<0.052	<0.052	**0.14**	<0.052	**0.39**	<0.052
W-543-001	08-MAR-16	TO15DIT	<0.068	<0.068	<0.068	<0.068	**0.081**	<0.068	<0.068	**0.37**	<0.068	**0.46**	<0.068
W-543-003	08-MAR-16	TO15DIT	<0.19	<0.19	<0.19	<0.19	**0.23**	<0.19	<0.19	**0.34**	<0.19	**1.3**	<0.19
W-543-1908	08-MAR-16	TO15DIT	<0.057	<0.057	<0.057	<0.057	**0.058**	<0.057	<0.057	**0.097**	<0.057	**0.43**	<0.057
VTFE-HS													
W-2105	30-MAR-16	TO15DIT	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.25**	<0.18	**1.8**	<0.18
W-ETS-2008A	30-MAR-16	TO15DIT	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0089**	<0.005	**0.012**	<0.005
W-ETS-2008B	30-MAR-16	TO15DIT	<0.064	<0.064	<0.064	<0.064	<0.064	<0.064	<0.064	**0.45**	<0.064	**0.48**	<0.064
W-ETS-2009	30-MAR-16	TO15DIT	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	**0.12**	<0.041	**0.27**	<0.041
W-ETS-2010A	30-MAR-16	TO15DIT	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	**0.12**	<0.019	**0.13**	<0.019
W-ETS-2010B	30-MAR-16	TO15DIT	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	**0.012**	<0.0092	**0.018**	<0.0092
VTF406-HS													
W-217	25-FEB-16	TO15DIT	<0.18	<0.18	<0.18	<0.18	**0.46**	<0.18	<0.18	**0.32**	<0.18	**0.94**	<0.18
W-514-2007A	25-FEB-16	TO15DIT	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	**4**
W-514-2007B	25-FEB-16	TO15DIT	<0.1	<0.1	<0.1	<0.1	**0.37**	<0.1	<0.1	**0.17**	<0.1	**0.54**	<0.1
VTF511													
W-2204	08-MAR-16	TO15DIT	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	**7.7**	<0.89
W-2205	08-MAR-16	TO15DIT	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	**1.6**	<0.2
W-2206	08-MAR-16	TO15DIT	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	**1.7**	<0.21
W-2207A	08-MAR-16	TO15DIT	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	**0.14**	<0.022
W-2207B	08-MAR-16	TO15DIT	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	**0.86**	<0.092
W-2208A	08-MAR-16	TO15DIT	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	**1.9**	<0.11
W-2208B	08-MAR-16	TO15DIT	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	**6.3**	<0.43
VTF518-PZ													
W-1615	09-FEB-16	TO15DIT	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	**1.5**	<0.16	**2**	<0.16
W-2215A	25-FEB-16	TO15DIT	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.85**	<0.05

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

Extraction Well	Date Sampled	Analytic Method	CTET	CFORM	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)	-	-	-	-	-	->
VTF518-PZ (cont.)													
W-2215B	09-FEB-16	TO15DIT	<0.0076	<0.0076	<0.0076	<0.0076	**0.024**	<0.0076	**0.02**	**0.01**	<0.0076	**0.053**	<0.0076
W-518-1913	09-FEB-16	TO15DIT	<1.8	<1.8	<1.8	<1.8	**2.4**	<1.8	<1.8	**3.2**	<1.8	**12**	<1.8
W-518-1914	09-FEB-16	TO15DIT	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	**4.7**	<0.34	<0.34	<0.34
W-518-1915	09-FEB-16	TO15DIT	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	<0.63	**1.4**	<0.63	<0.63	<0.63
SVB-518-201	09-FEB-16	TO15DIT	<0.023	<0.023	<0.023	<0.023	**0.053**	<0.023	<0.023	**0.063**	<0.023	**0.19**	<0.023
SVB-518-204	09-FEB-16	TO15DIT	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	**0.099**	<0.079	**0.51**	<0.079
VTF5475[b]													
W-1605	21-MAR-16	TO15DIT	<0.005	**0.014**	<0.005	<0.005	**0.0056**	<0.005	<0.005	<0.005	<0.005	**0.047**	<0.005
W-1608	21-MAR-16	TO15DIT	<0.11	**0.26**	<0.11	<0.11	**0.15**	<0.11	**0.12**	**0.12**	<0.11	**0.75**	<0.11
W-2211	22-MAR-16	TO15DIT	<0.084	**0.1**	<0.084	<0.084	<0.084	<0.084	<0.084	<0.084	<0.084	**0.37**	<0.084
W-2212	22-MAR-16	TO15DIT	<0.52	<0.52	<0.52	<0.52	**0.57**	<0.52	<0.52	<0.52	<0.52	**1.9**	<0.52
W-ETS-507	21-MAR-16	TO15DIT	<0.017	**0.16**	<0.017	<0.017	<0.017	<0.017	<0.017	**0.036**	<0.017	**0.18**	<0.017
W-2302	29-MAR-16	TO15DIT	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	**7.6**	<1.5
W-2303	29-MAR-16	TO15DIT	<0.34	**0.84**	<0.34	<0.34	<0.34	<0.34	<0.34	**0.49**	<0.34	**3.4**	<0.34
SVI-ETS-504	22-MAR-16	TO15DIT	<0.11	**0.2**	<0.11	<0.11	<0.11	<0.11	<0.11	**0.14**	<0.11	**0.65**	<0.11

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

Notes:

CTET = Carbon tetrachloride

CFORM = 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)
TFA	TFA-I001	05-JAN-16	0.013	NA
	TFA-E001	05-JAN-16	0.013	0.012
TFB	TFB-I002	04-JAN-16	0.02	NA
	TFB-E002	04-JAN-16	0.011	0.011
	TFB-E002	01-FEB-16	0.0092	NA
	TFB-E002	01-MAR-16	0.014	NA
	TFB-R002	04-JAN-16	0.01	NA
TFC	TFC-I003	14-JAN-16	0.017	NA
	TFC-E003	14-JAN-16	0.012	0.014
	TFC-E003	01-FEB-16	0.0093	NA
	TFC-E003	01-MAR-16	0.013	NA
	TFC-R003	14-JAN-16	<0.005	NA
TFC-E	MTU1-I	13-JAN-16	0.027	NA
	MTU1-E	13-JAN-16	<0.005	<0.005
	MTU1-E	04-FEB-16	0.0016	NA
	MTU1-E	08-MAR-16	0.0022	NA
TFC-SE	PTU1-I	05-JAN-16	0.025	NA
	PTU1-E	05-JAN-16	0.014	0.015
	PTU1-E	08-FEB-16	0.012	NA
	PTU1-E	08-MAR-16	0.013	NA
TFD-E	PTU8-I	20-JAN-16	0.0061	NA
	PTU8-E	20-JAN-16	0.0066	0.0065
TFD-HPD	PTU10-I	13-JAN-16	0.01	NA
	PTU10-E	13-JAN-16	0.011	0.012
TFD-S	PTU2-I	05-JAN-16	0.011	NA
	PTU2-E	05-JAN-16	0.011	0.011
TFD-SE	PTU11-I	13-JAN-16	0.0079	NA
	PTU11-E	13-JAN-16	0.007	0.0078
TFD-SS	PTU12-I	14-JAN-16	0.011	NA
	PTU12-E	14-JAN-16	0.01	0.011
TFD-W	PTU6-I	06-JAN-16	0.0084	NA
	PTU6-E	06-JAN-16	0.0087	0.0099
TFE-E	PTU3-I	07-JAN-16	0.0082	NA
	PTU3-E	07-JAN-16	0.008	0.01
TFE-HS	GTU07-I	13-JAN-16	0.0062	NA
	GTU07-E	13-JAN-16	<0.005	<0.005
TFE-NW	PTU9-I	07-JAN-16	0.0087	NA
	PTU9-E	07-JAN-16	0.0084	0.011
TFE-SE	W-359	07-JAN-16	0.0066	NA
	MTU04-E	07-JAN-16	0.0066	0.0081
TFE-SW	MTU03-I	12-JAN-16	0.013	NA
	MTU03-E	12-JAN-16	0.013	0.013

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)
TFE-W	MTU05-I	06-JAN-16	0.0094	NA
	MTU05-E	06-JAN-16	0.0091	0.011
TFG-1	W-1111	20-JAN-16	0.0075	NA
	GTU01-E	20-JAN-16	<0.005	<0.005
	TFG-ASW	20-JAN-16	<0.005	NA
TFG-N	MTU02-I	13-JAN-16	0.0094	NA
	MTU02-E	13-JAN-16	0.0085	0.0071
TF406	PTU5-I	07-JAN-16	0.011	NA
	PTU5-E	07-JAN-16	0.0094	0.012
TF406-NW	W-1801	07-JAN-16	<0.005	NA
	GTU03-E	07-JAN-16	<0.005	<0.005
TF518-N	W-1410	21-JAN-16	0.0062	NA
TF5475-2	GTU09-I	12-JAN-16	0.012	NA
	GTU09-E	12-JAN-16	0.012	0.013

[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 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-E001	05-JAN-16	100 (100)	0.14	94
TFB	TFB-E002	04-JAN-16	100 (100)	0.24	74
TFC	TFC-E003	14-JAN-16	100 (100)	0.15	150
TFC-E	MTU1-E	13-JAN-16	100 (100)	0.17	230
TFC-SE	PTU1-E	05-JAN-16	100 (100)	0.19	120
TFD-E	PTU8-E	20-JAN-16	100 (100)	0.52	340
TFD-HPD	PTU10-E	13-JAN-16	100 (100)	0.19	470
TFD-S	PTU2-E	05-JAN-16	100 (100)	0.15	93
TFD-SE	PTU11-E	13-JAN-16	100 (100)	0.28	190
TFD-SS	PTU12-E	14-JAN-16	100 (100)	0.19	190
TFD-W	PTU6-E	06-JAN-16	100 (100)	0.28	210
TFE-E	PTU3-E	07-JAN-16	100 (100)	0.22	110
TFE-HS	GTU07-E	13-JAN-16	100 (100)	0.17	63
TFE-NW	PTU9-E	07-JAN-16	100 (100)	0.14	100
TFE-SE	MTU04-E	07-JAN-16	100 (100)	0.15	110
TFE-SW	MTU03-E	12-JAN-16	100 (100)	0.19	79
TFE-W	MTU05-E	06-JAN-16	100 (100)	0.57	62
TFG-1	GTU01-E	20-JAN-16	100 (100)	0.14	39
TFG-N	MTU02-E	13-JAN-16	100 (100)	0.58	41
TF406	PTU5-E	07-JAN-16	100 (100)	0.18	79
TF406-NW	GTU03-E	07-JAN-16	100 (100)	0.15	56
TF5475-2	GTU09-E	12-JAN-16	100 (100)	0.21	130

[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

Table A-6. Metals analyses of effluent samples by treatment facility as compared to the instantaneous Maximum.

		Antimony	Arsenic	Beryllium	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		<-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	->
Wet Season[a] (December 1 - March 31)		**NA**	**0.01**	**NA**	**0.002**	**0.0236**	**0.006**	**0.002**	**0.3**	**0.01**	**0.1**	**NA**	**0.220**
Sample Station	**Date Sampled**												
TFA TFA-E001	05-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFB TFB-E002	04-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	**0.0067**	<0.005	<0.005	<0.001	<0.01
TFC TFC-E003	14-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC-E MTU1-E	13-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFC-SE PTU1-E	05-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-E PTU8-E	20-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	**0.005**	**0.0057**	<0.005	<0.001	<0.01
TFD-HPD PTU10-E	13-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	**0.0093**	<0.005	<0.001	<0.01
TFD-S PTU2-E	05-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-SE PTU11-E	13-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-SS PTU12-E	14-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFD-W PTU6-E	06-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-E PTU3-E	07-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01

Table A-6. Metals analyses of effluent samples by treatment facility as compared to the instantaneous Maximum.

		Antimony	Arsenic	Beryllium	Cadmium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
		<-	-	-	-	-	mg/L (ppm)	-	-	-	-	-	->
Wet Season[a] (December 1 - March 31)		**NA**	**0.01**	**NA**	**0.002**	**0.0236**	**0.006**	**0.002**	**0.3**	**0.01**	**0.1**	**NA**	**0.220**
Sample Station	**Date Sampled**												
TFE-HS GTU07-E	13-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	**0.019**
TFE-NW PTU9-E	07-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-SE MTU04-E	07-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-SW MTU03-E	12-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFE-W MTU05-E	06-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFG-1 GTU01-E	20-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TFG-N MTU02-E	13-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF406 PTU5-E	07-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF406-NW GTU03-E	07-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01
TF5475-2 GTU09-E	12-JAN-16	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.0002	<0.005	<0.005	<0.005	<0.001	<0.01

[a]The Explanation of Significant Differences for metals discharge identifies the Instantaneous Maximum concentrations for the wet season (December 1 - March 30).
NA = not applicable

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

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

Table A-7. Radiological analyses of effluent and receiving waters by treatment facility.

Treatment Facility	Sample Station	Date Sampled	Gross Alpha <-	Gross Beta pCi/L	Tritium ->
TFA	TFA-E001	05-JAN-16	**3.72**	**4.71**	<100
TFB	TFB-E002	04-JAN-16	<2	<3	<100
TFB	TFB-R002	04-JAN-16	**4.72**	**4.59**	<100
TFC	TFC-E003	14-JAN-16	<2	<3	**105**
TFC	TFC-R003	14-JAN-16	<2	<3	<100
TFC-E	MTU1-E	13-JAN-16	<2	<3	**324**
TFC-SE	PTU1-E	05-JAN-16	<2	<3	**142**
TFD-E	PTU8-E	20-JAN-16	<2	**4.4**	**284**
TFD-HPD	PTU10-E	13-JAN-16	<2	**3.3**	<100
TFD-S	PTU2-E	05-JAN-16	**4.27**	**6.13**	**154**
TFD-SE	PTU11-E	13-JAN-16	**4.74**	<3	**186**
TFD-SS	PTU12-E	14-JAN-16	**6.51**	**4.6**	**250**
TFD-W	PTU6-E	06-JAN-16	**4.83**	**3.08**	<100
TFE-E	PTU3-E	07-JAN-16	<2	**12.1**	**212**
TFE-HS	GTU07-E	13-JAN-16	<2	<3	<100
TFE-NW	PTU9-E	07-JAN-16	**4.57**	<3	**279**
TFE-SE	MTU04-E	07-JAN-16	**4.47**	<3	<100
TFE-SW	MTU03-E	12-JAN-16	<2	**3.04**	**282**
TFE-W	MTU05-E	06-JAN-16	<2	**4.73**	<100
TFG-1	GTU01-E	20-JAN-16	**8.6**	**3.69**	**333**
TFG-1	TFG-ASW	20-JAN-16	<2	**14.4**	**139**
TFG-N	MTU02-E	13-JAN-16	<2	**3.79**	**145**
TF406	PTU5-E	07-JAN-16	<2	<3	<100
TF406-NW	GTU03-E	07-JAN-16	**3.8**	**4.04**	<100
TF5475-2	GTU09-E	12-JAN-16	<2	<3	**424**

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

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.
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 Lake Haussmann 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.

Explanation of Abbreviations

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 **January** Year **2016**

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

December	**31**														
January	**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): **450**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-05-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-109	**0**	**0.0**
W-262	**0**	**0.0**
W-404	**809,260**	**31.8**
W-408	**735,000**	**28.7**
W-415	**942,848**	**37.3**
W-457	**198,736**	**7.9**
W-518	**102,228**	**4.1**
W-522	**350,592**	**13.7**
W-605	**240,920**	**9.2**
W-614	**277,864**	**10.9**
W-904	**354,464**	**14.1**
W-712	**108,604**	**4.4**
W-714	**122,536**	**4.4**
W-903	**300,160**	**11.2**
W-1001	**33,150**	**1.3**
W-1004	**144,312**	**5.8**
W-1009	**550,640**	**20.0**
Total:	**5,271,314**	**204.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,380,414**

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

Arroyo Seco **TFG-ASW** **2,890,900**

6. Comments:

Facility was shutdown on 01-16-2016. Facility was restarted on 01-19-2016.
Facility was shutdown on 01-19-2016. Facility was restarted on 01-29-2016.

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

Operator Signature: _____ Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **720**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-01-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-109	**1,120**	**0.0**
W-262	**142**	**0.0**
W-404	**1,375,920**	**32.4**
W-408	**1,226,288**	**28.9**
W-415	**1,679,360**	**40.8**
W-457	**300,872**	**9.0**
W-518	**176,108**	**4.1**
W-522	**582,848**	**13.5**
W-614	**453,208**	**10.6**
W-1001	**51,206**	**1.2**
W-1004	**249,192**	**5.8**
W-1009	**954,912**	**22.3**
W-712	**171,572**	**4.1**
W-714	**215,980**	**5.0**
W-605	**398,840**	**9.3**
W-904	**651,840**	**16.0**
W-903	**535,816**	**12.6**
Total:	**9,025,224**	**215.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,111,724**

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

Arroyo Seco **TFG-ASW** **4,913,500**

6. Comments:

Facility was shutdown on 01-31-2016 due to power surge. Facility was restarted on 02-01-2016. Facility was shutdown on 02-17-2016 due to rainwater leaks in vaults. Facility was restarted on 02-18-2016.

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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** **31**

Total monthly time facility operated (hours): **750**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-109	**0**	**0.0**
W-262	**0**	**0.0**
W-404	**1,420,592**	**31.8**
W-408	**1,271,176**	**28.3**
W-415	**1,655,808**	**38.0**
W-457	**371,144**	**8.3**
W-518	**187,228**	**4.0**
W-522	**615,440**	**13.6**
W-605	**416,200**	**9.2**
W-614	**474,736**	**10.6**
W-712	**187,652**	**4.2**
W-714	**230,976**	**5.1**
W-903	**538,400**	**11.8**
W-904	**644,512**	**15.3**
W-1001	**52,974**	**1.0**
W-1004	**271,728**	**6.2**
W-1009	**999,456**	**22.6**
Total:	**9,338,022**	**210.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**4,242,922**

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

Arroyo Seco **TFG-ASW** **5,095,100**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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-254	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**0**

6. Comments:
Facility secured due to lack of water in extraction well.

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

Operator Signature: J. Kennitz Date: **02-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	30	31													
February	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-254	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**0**

6. Comments:
Facility secured due to a lack of water in the extraction well.

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

Operator Signature: Joan Hamilton Date: **03-02-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	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	31

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-254	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**0**

6. Comments:
Facility secured due to a lack of water in the extraction well.

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

Operator Signature: Joan Hamilton Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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): **730**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-04-2016**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**319,840**	**8.2**
W-610	**283,916**	**6.5**
W-620	**169,952**	**3.9**
W-621	**180**	**0.0**
W-655	**200**	**0.0**
W-704	**692,640**	**16.2**
W-1423	**117,764**	**2.8**
W-2501	**698,268**	**16.2**
W-2502	**161,122**	**3.8**
Total:	**2,443,882**	**57.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**2,018,086**
Building 133 Cooling Tower	**TFB-E-B133CT**	**425,796**

6. Comments:

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 B (TFB)
AREA TFB

Operator Signature: _____ Date: **02-02-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

2. Date compliance sampling performed **01-04-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**5.65**
6-day total precipitation (in):	**0.03**
Average wind speed/direction (mph):	**3/ E**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**7.5**	**17.2**

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 Gawazuma Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **737**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-01-2016**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**348,312**	**7.9**
W-610	**287,668**	**6.7**
W-620	**197,716**	**4.7**
W-621	**0**	**0.0**
W-655	**0**	**0.0**
W-704	**706,464**	**16.3**
W-1423	**125,684**	**4.4**
W-2501	**703,070**	**16.8**
W-2502	**165,903**	**4.7**
Total:	**2,534,817**	**61.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**1,824,483**
Building 133 Cooling Tower	**TFB-E-B133CT**	**710,334**

6. Comments:

Facility was shutdown on 01-31-2016 due to power surge. Facility was restarted on 02-01-2016.

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

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

2. Date compliance sampling performed **02-01-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**10.23**
6-day total precipitation (in):	**0.24**
Average wind speed/direction (mph):	**4/ 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	**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 Kawazoe Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March **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 31

Total monthly time facility operated (hours): **752**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-357	**352,880**	**8.4**
W-610	**265,648**	**6.5**
W-620	**214,048**	**4.7**
W-621	**0**	**0.0**
W-655	**0**	**0.0**
W-704	**728,800**	**16.3**
W-1423	**126,268**	**2.7**
W-2501	**712,776**	**16.3**
W-2502	**165,424**	**3.7**
Total:	**2,565,844**	**58.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**1,861,012**
Building 133 Cooling Tower	**TFB-E-B133CT**	**704,832**

6. Comments:

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 B (TFB)
AREA TFB

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

2. Date compliance sampling performed **03-01-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**13.38**
6-day total precipitation (in):	**0.00**
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	**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: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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): **505**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-14-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-701	**410,968**	**13.5**
W-1104	**604,308**	**20.0**
W-1116	**59,860**	**2.0**
Total:	**1,075,136**	**35.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,075,136**

6. Comments:

Facility was down awaiting flow meter replacement for W-1104 and for replacement of drive for facility discharge pump. Facility was restarted on 01-08-2016.

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

Operator Signature: Scott Gauzagni Date: **02-02-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

2. Date compliance sampling performed **01-14-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**9.16**
6-day total precipitation (in):	**0.20**
Average wind speed/direction (mph):	**3/ SE**

4. Receiving Data:

Sample Location	pH	Temperature (C)
Receiving Water	**7.0**	**10.1**

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 Kerwagen Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **750**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-01-2016**
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-701	**609,144**	**13.6**
W-1104	**707,196**	**19.9**
W-1116	**83,181**	**1.7**
Total:	**1,399,521**	**35.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,399,521**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

2. Date compliance sampling performed **02-01-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**10.23**
6-day total precipitation (in):	**0.24**
Average wind speed/direction (mph):	**4/ 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	**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 Kawagoe Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March **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 31

Total monthly time facility operated (hours): **729**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
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	**594,640**	**13.7**
W-1104	**584,944**	**19.9**
W-1116	**77,991**	**1.8**
Total:	**1,257,575**	**35.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,257,575**

6. Comments:

Facility was shutdown on 03-16-2016 for interlock checks. Facility was restarted on 03-17-2016.

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

Operator Signature: Scott Kawazu Date: **04-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

2. Date compliance sampling performed **03-01-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**13.38**
6-day total precipitation (in):	**0.00**
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	**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: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	31													
January	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): **429**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-368	**79,648**	**3.4**
W-413	**277,702**	**11.3**
Total:	**357,350**	**14.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**357,350**

6. Comments:

Facility was shut down at 08:46 on 12-30-2015 to prepare for the installation of new resin columns. Facility was restarted at 11:15 on 01-12-2016.

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

Operator Signature: _____ Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **742**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-04-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-368	**131,180**	**3.0**
W-413	**477,568**	**10.1**
Total:	**608,748**	**13.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**608,748**

6. Comments:

Facility was shutdown at 09:30 on 02-09-2016 to install new resin columns.
Facility was restarted at 11:30 on 02-09-2016.

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

Operator Signature: _____ Date: **03-08-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **740**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-368	**131,664**	**2.9**
W-413	**485,251**	**10.3**
Total:	**616,915**	**13.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**616,915**

6. Comments:

Facility was shutdown at 11:26 on 03-03-2016 to install new resin columns.
Facility was restarted at 13:58 on 03-03-2016.

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

Operator Signature: _____ Date: **04-12-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **734**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-05-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**99,168**	**2.3**
W-2201	**434,077**	**10.3**
Total:	**533,245**	**12.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**533,245**

6. Comments:

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

Operator Signature: Jon Hamilton Date: **02-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **751**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**100,665**	**2.3**
W-2201	**454,203**	**10.3**
Total:	**554,868**	**12.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**554,868**

6. Comments:

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

Operator Signature: Jon Hamilton Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **752**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1213	**100,635**	**2.3**
W-2201	**455,029**	**10.2**
Total:	**555,664**	**12.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**555,664**

6. Comments:

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

Operator Signature: Jon Hamilton Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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): **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-351	**0**	**0.0**
W-653	**0**	**0.0**
W-2011	**0**	**0.0**
W-2101	**0**	**0.0**
W-2102	**0**	**0.0**
W-1206	**0**	**0.0**
W-1208	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

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

6. Comments:
Facility was shut down on 04-27-2015 for REVAL.

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

Operator Signature: Shet Gwagen C. Date: **01-29-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	29	30	31												
February	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**				

Total monthly time facility operated (hours): **73**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-16-2016**
Influent pH:	**7.0**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-351	**13,802**	**5.5**
W-653	**685**	**3.5**
W-2011	**1,191**	**3.7**
W-2101	**1,931**	**4.1**
W-2102	**2,484**	**3.5**
W-1206	**75,752**	**23.6**
W-1208	**89,809**	**23.4**
W-3101	**27,964**	**10.0**
W-3102	**6,709**	**4.1**
Total:	**220,327**	**81.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**220,327**
TFD irrigation supply	**TFD-IRR**	**0**

6. Comments:

Facility was restarted on 02-10-2016 (Day 1 of operations). Facility was shutdown on 02-10-2016. Facility was restarted on 02-12-2016 (Day 2 of operations). Facility was shutdown on 02-12-2016. Facility was restarted on

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

02-16-2016 (Day 3 of operations). Facility was shutdown on 02-16-2016. Facility was restarted on 02-22-2016. Facility was shutdown on 02-22-2016. Facility was restarted on 02-23-2016 (Week 1 of operations). Facility was shutdown on 02-23-2016. Facility was restarted on 02-24-2016 in 24-hour mode of operation. Facility was shutdown on 02-26-2016 for extraction well field start-up recovery.

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

Operator Signature: _____ Date: **02-29-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

February	27	28	29													
March	**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**	**31**

Total monthly time facility operated (hours): **694**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-17-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-351	**86,352**	**3.2**
W-653	**1,231**	**0.0**
W-2011	**3,166**	**0.0**
W-2101	**3,804**	**0.0**
W-2102	**6,145**	**0.0**
W-1206	**560,625**	**16.2**
W-1208	**749,490**	**25.3**
W-3101	**286,683**	**6.9**
W-3102	**37,149**	**1.7**
Total:	**1,734,645**	**53.3**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,734,645**
TFD irrigation supply	**TFD-IRR**	**0**

6. Comments:

Facility was started in 24 hour operation mode on 03-01-2016. Facility was shutdown on 03-05-2016 due to W-1206 fault. Facility was restarted on 03-07-2016.

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: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-20-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**17.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2006	**798**	**3.2**
W-1301	**29,915**	**0.7**
W-1303	**46,323**	**1.1**
W-1306	**3,989**	**2.8**
W-1307	**265,975**	**5.7**
W-1550	**6,085**	**2.2**
W-2203	**1,828**	**1.6**
Total:	**354,913**	**17.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**354,913**

6. Comments:

W-1303 shut down at 11:30 on 1-12-16 due to LTL - interlock activation. W-1303 was restarted at 13:25 on 1-14-16. The pump in W-1303 was down for approximately 50 hrs.

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

Operator Signature: Billy Kirk Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **716**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-04-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2006	**777**	**3.2**
W-1301	**30,280**	**0.7**
W-1303	**47,291**	**1.1**
W-1306	**3,872**	**2.8**
W-1307	**271,130**	**6.3**
W-1550	**5,730**	**2.2**
W-2203	**1,634**	**1.6**
Total:	**360,714**	**17.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**360,714**

6. Comments:

Facility shutdown at 06:50 on 02-21-2016 due to PSH - Interlock activation (stripper-1). Facility was restarted at 09:17 on 02-22-2016. Facility was shutdown at 12:40 on 02-29-2016 for air stripper maintenance. Facility was restarted at 14:04 on 02-29-2016.

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: **03-08-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.9**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2006	**763**	**3.2**
W-1301	**28,902**	**0.7**
W-1303	**44,812**	**1.1**
W-1306	**3,569**	**2.8**
W-1307	**223,493**	**5.5**
W-1550	**5,477**	**2.2**
W-2203	**1,491**	**1.6**
Total:	**308,507**	**17.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**308,507**

6. Comments:
NA

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

Operator Signature: _____ Date: **04-12-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **747**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2016**
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-1254	**279,732**	**6.2**
Total:	**279,732**	**6.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**279,732**

6. Comments:

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

Operator Signature: _____ Date: **02-17-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **752**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-30-2016**
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-1254	**266,945**	**6.8**
Total:	**266,945**	**6.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**266,945**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **750**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-09-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1254	**173,686**	**4.0**
Total:	**173,686**	**4.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**173,686**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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): **419**

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	**693**	**1.8**
W-1653	**402**	**2.0**
W-1655	**27**	**0.5**
W-1657	**0**	**0.0**
Total:	**1,122**	**4.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
ISB01 injection well	**W-1552**	**1,122**

6. Comments:

Compliance sampling is not required at this facility due to the fact that ISB01 is a closed loop system, and water is not discharged to the environment. Water was circulated through the system but was not treated. Approximately 65 gallons of facility water were added to the pre-mixing tote on 1-22-16. Ethyl Lactate injection took place on 1-26-16 .The facility was down for approximately 325 hrs. for a variety of reasons: Ethyl Lactate injection and filling the pre-mixing tote with facility water and maintenance.

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 ISB01 (ISB01)
AREA TFD-HPD

Operator Signature: _____ Date: **02-16-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	30	31													
February	**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): **648**

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	**872**	**0.3**
W-1653	**456**	**0.0**
W-1655	**2**	**0.8**
W-1657	**0**	**0.0**
Total:	**1,330**	**1.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
ISB01 injection well	**W-1552**	**1,330**

6. Comments:

Compliance sampling is not required at this facility due to the fact that ISB01 is a closed loop system, and water is not discharged to the environment. Water was circulated through the system but was not treated. Approximately 65 gallons of facility water were added to the pre-mixing tote on 2-08-16 And 68 gal on 02-22-16 for a total of 133 gal. Ethyl Lactate injection took place on 2-09-16 and 02-23-16. The facility was down for approximately 96 hrs. for a variety of reasons: Ethyl Lactate injection and filling the pre-mixing tote with facility water and maintenance.

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 ISB01 (ISB01)
AREA TFD-HPD

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **714**

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	**896**	**0.0**
W-1653	**390**	**0.0**
W-1655	**0**	**0.0**
W-1657	**0**	**0.0**
Total:	**1,286**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
ISB01 injection well	**W-1552**	**1,286**

6. Comments:

Compliance sampling is not required at this facility due to the fact that ISB01 is a closed loop system, and water is not discharged to the environment. Water was circulated through the system but was not treated. Approximately 83 gallons of facility water were added to the pre-mixing tote on 3-07-16 and 70 gallons were added on 03-21-16 for a total of 153 gallons. Ethyl Lactate injection took place on 3-08-16 and 03-22-16. The facility was down for approximately 30 hrs. for a variety of reasons: Ethyl Lactate injection and filling the pre-mixing tote with facility water and maintenance.

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 ISB01 (ISB01)
AREA TFD-HPD

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **710**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-05-2016**
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-1503	**388,872**	**9.4**
W-1504	**273,925**	**6.6**
W-1510	**69,837**	**1.9**
W-2601	**159,221**	**4.0**
Total:	**891,855**	**21.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**891,855**

6. Comments:

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

Operator Signature: _____ Date: **02-08-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	30	31												
February	**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): **514**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-04-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1503	**287,897**	**10.9**
W-1504	**204,104**	**9.0**
W-1510	**56,094**	**2.5**
W-2601	**106,822**	**8.1**
Total:	**654,917**	**30.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**654,917**

6. Comments:

Facility was shutdown on 01-30-2016 due to a bad discharge pump. Facility was restarted on 02-01-2016 for testing. Facility was shutdown on 02-02-2016. Facility was restarted on 02-04-2016 in preparation of repairs. Facility was shutdown on 02-04-2016 to clean out discharge line Facility was restarted on 02-08-2016 after clean out was complete.

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

Operator Signature: _____ Date: **03-02-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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** **31**

Total monthly time facility operated (hours): **741**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-09-2016**
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-1503	**360,245**	**8.3**
W-1504	**282,228**	**6.4**
W-1510	**76,814**	**1.7**
W-2601	**90,861**	**2.2**
Total:	**810,148**	**18.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**810,148**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**199,072**	**4.3**
W-2005	**35,448**	**0.8**
W-1308	**43,269**	**1.0**
W-1403	**48,387**	**0.9**
W-1904	**0**	**0.0**
SIP-ETC-201	**0**	**0.0**
Total:	**326,176**	**7.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**326,176**

6. Comments:

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

Operator Signature: _____ Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-08-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**214,504**	**5.4**
W-2005	**40,421**	**0.9**
W-1308	**46,790**	**1.1**
W-1403	**44,936**	**1.4**
W-1904	**0**	**0.0**
SIP-ETC-201	**0**	**0.0**
Total:	**346,651**	**8.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**346,651**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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** **31**

Total monthly time facility operated (hours): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-314	**177,888**	**4.4**
W-2005	**40,647**	**0.9**
W-1308	**44,893**	**1.1**
W-1403	**42,964**	**1.3**
W-1904	**0**	**0.0**
SIP-ETC-201	**0**	**0.0**
Total:	**306,392**	**7.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**306,392**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-14-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**212,862**	**4.8**
W-1601	**33,682**	**0.9**
W-1602	**88,701**	**2.1**
W-1603	**622,318**	**13.9**
Total:	**957,563**	**21.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**957,563**

6. Comments:
NA

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

Operator Signature: _____ Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**222,564**	**5.5**
W-1601	**37,821**	**0.9**
W-1602	**93,077**	**2.1**
W-1603	**607,539**	**13.9**
Total:	**961,001**	**22.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**961,001**

6. Comments:
NA

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

Operator Signature: Billy Hilid Date: **03-08-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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 **31**

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

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1523	**183,938**	**4.6**
W-1601	**32,699**	**0.8**
W-1602	**80,691**	**2.1**
W-1603	**425,850**	**13.9**
Total:	**723,178**	**21.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**723,178**

6. Comments:

Facility was shutdown at 11:02 on 03-29-2016 to complete gardner irrigation installation. Facility was restarted at 14:25 on 03-31-2016.

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

Operator Signature: _____ Date: **04-12-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**												
January	**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): **748**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-06-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.2**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**410,094**	**9.6**
W-1216	**422,582**	**9.0**
W-1902	**637,316**	**14.8**
Total:	**1,469,992**	**33.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,469,992**

6. Comments:

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

Operator Signature: Jean Hamilton Date: **02-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **733**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-08-2016**
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-1215	**413,187**	**8.8**
W-1216	**421,122**	**9.6**
W-1902	**613,102**	**14.1**
Total:	**1,447,411**	**32.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,447,411**

6. Comments:

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

Operator Signature: Jason Hamilton Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **749**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1215	**445,952**	**10.0**
W-1216	**441,932**	**10.0**
W-1902	**661,229**	**15.0**
Total:	**1,549,113**	**35.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**1,549,113**

6. Comments:

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

Operator Signature: Joan Hamilton Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2003	**649,744**	**13.0**	**-1**	**58**	**749**
W-ETC-2004A	**414,080**	**8.9**	**-7**	**58**	**749**
W-ETC-2004B	**735,720**	**17.8**	**-3.5**	**58**	**749**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,799,544**	**39.7**			

4. Comments:

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

Operator Signature: _____ Date: **02-08-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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-1904	**0**	**0.0**	**0**	**0**	**0**
W-ETC-2003	**625,182**	**14.2**	**-1.15**	**60**	**746**
W-ETC-2004A	**404,464**	**8.5**	**-7.4**	**60**	**746**
W-ETC-2004B	**813,876**	**18.6**	**-3.62**	**60**	**751**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,843,522**	**41.2**			

4. Comments:
   Took quarterly vapor samples on 2/25/16

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

Operator Signature: _____ Date: **03-02-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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** **31**

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	**628,706**	**14.0**	**-1**	**60**	**750**
W-ETC-2004A	**396,046**	**8.9**	**-7.47**	**60**	**750**
W-ETC-2004B	**814,220**	**18.2**	**-3.68**	**60**	**750**
SIP-ETC-201	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,838,972**	**41.1**			

4. Comments:

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

Operator Signature: _____ Date: **04-22-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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): **729**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-07-2016**
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-566	**337,243**	**7.8**
W-1109	**44,721**	**1.0**
W-1903	**7,703**	**0.2**
W-1909	**0**	**0.0**
W-2305	**34**	**0.5**
Total:	**389,701**	**9.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**389,701**

6. Comments:

Facility was shutdown on 01-12-2016 at 09:09 to perform system interlock checks. Facility was restarted on 01-12-2016 at 13:43.

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

Operator Signature: _____ Date: **02-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **746**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-566	**345,869**	**7.9**
W-1109	**47,682**	**1.1**
W-1903	**8,529**	**0.1**
W-1909	**0**	**0.0**
W-2305	**0**	**0.0**
Total:	**402,080**	**9.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**402,080**

6. Comments:

Facility was shutdown on 02-09-2016 for drainage ditch maintenance. Facility was restarted on 02-09-2016.

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

Operator Signature: Sam Thomas Date: **03-02-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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** **31**

Total monthly time facility operated (hours): **739**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
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-566	**348,245**	**7.8**
W-1109	**47,155**	**1.1**
W-1903	**8,354**	**0.2**
W-1909	**0**	**0.0**
W-2305	**0**	**0.0**
Total:	**403,754**	**9.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**403,754**

6. Comments:

Facility was shutdown on 03-07-2016 along with VES 16 to replace heater controller. Facility was restarted on 03-07-2016. Facility hours of operation entered on this report were adjusted due to malfunction of facility clock.

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

Operator Signature: Sam Thoms Date: **04-05-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **753**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**19.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**148**	**0.3**
W-2801	**34,644**	**0.8**
Total:	**34,792**	**1.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**34,792**

6. Comments:

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

Operator Signature: _____ Date: **02-08-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **748**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-11-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**17.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**687**	**0.0**
W-2801	**36,603**	**0.7**
Total:	**37,290**	**0.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**37,290**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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** **31**

Total monthly time facility operated (hours): **739**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**17.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-2105	**363**	**0.0**
W-2801	**33,025**	**0.7**
Total:	**33,388**	**0.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**33,388**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **755**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-07-2016**
Influent pH:	**7.4**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**284,566**	**6.4**
W-1409	**71,054**	**1.6**
Total:	**355,620**	**8.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**355,620**

6. Comments:
NA

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

Operator Signature: _____ Date: **02-02-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **750**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**283,798**	**6.4**
W-1409	**71,137**	**1.6**
Total:	**354,935**	**8.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**354,935**

6. Comments:

Facility was shutdown at 13:11 on 02-26-2016 to install water transfer manifold on air stripper. Facility was restarted at 14:44 on 02-26-2016.

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

Operator Signature: _____ Date: **03-08-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

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

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1211	**291,822**	**6.8**
W-1409	**71,223**	**1.6**
Total:	**363,045**	**8.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**363,045**

6. Comments:
NA

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

Operator Signature: _____ Date: **04-12-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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): **719**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-07-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**17.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**370,361**	**8.5**
Total:	**370,361**	**8.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**370,361**

6. Comments:

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

Operator Signature: _____ Date: **02-01-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**382,509**	**8.5**
Total:	**382,509**	**8.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**382,509**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **732**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-359	**377,155**	**8.5**
Total:	**377,155**	**8.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**377,155**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

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

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-12-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**21.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1516	**449,368**	**10.1**
W-1518	**1**	**0.0**
W-1520	**35,077**	**0.8**
W-1522	**37,305**	**0.8**
Total:	**521,751**	**11.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**521,751**

6. Comments:

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

Operator Signature: _____ Date: **02-08-2016**

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

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **740**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-30-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**20.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1516	**426,308**	**9.3**
W-1518	**0**	**0.0**
W-1520	**37,106**	**0.8**
W-1522	**41,936**	**0.8**
Total:	**505,350**	**11.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**505,350**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

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

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-09-2016**
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-1516	**445,500**	**10.2**
W-1518	**0**	**0.0**
W-1520	**32,543**	**1.0**
W-1522	**28,398**	**0.7**
Total:	**506,441**	**11.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**506,441**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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): **720**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-06-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.8**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-292	**261,962**	**6.1**
W-305	**521,170**	**12.1**
Total:	**783,132**	**18.2**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**783,132**

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: **02-01-2016**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-03-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-292	**270,499**	**6.0**
W-305	**538,685**	**12.0**
Total:	**809,184**	**18.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**809,184**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

Self-Monitoring Report
LLNL Mini Treatment Unit 05 (MTU05)
AREA TFE-W

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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** **31**

Total monthly time facility operated (hours): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-01-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-292	**269,016**	**6.0**
W-305	**537,234**	**12.0**
Total:	**806,250**	**18.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**806,250**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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-1903	**151,934**	**3.6**	**-22.48**	**62**	**628**
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-2305	**7,531**	**0.1**	**-3.87**	**62**	**628**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**39,260**	**1.4**	**-.03**	**62**	**628**
Total:	**198,725**	**5.1**			

4. Comments:

Facility was shutdown on 01-12-2016 at 09:09 to perform system interlock checks at PTU 3. Facility was restarted on 01-12-2016 at 13:43. Facility was shutdown on 01-23-2016 at 13:00 due W-1909 water coil high temperature interlock. Facility was restarted on 01-27-2016 at 13:53.

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

Operator Signature: Sam Thom Date: **02-02-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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-1903	**183,702**	**4.5**	**-21.49**	**58**	**737**
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-2305	**7,139**	**0.2**	**-3.55**	**58**	**737**
W-543-001	**0**	**0.0**	**0**	**0**	**0**
W-543-003	**48,916**	**1.4**	**-.03**	**58**	**737**
W-543-1908	**0**	**0.0**	**0**	**0**	**0**
Total:	**239,757**	**6.1**			

4. Comments:

Facility was shutdown on 02-09-2016 to clear vegetation from drainage ditch.
Facility was restarted on 02-09-2016.

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

Operator Signature: Sam Thomas Date: **03-07-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 16 (VES16)
AREA VTFE-ELM

1. Reporting Period: Business Month **March** Year **2016**

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

March															
	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**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1903	**164,326**	**3.7**	**-22.8**	**80.5**	**739**
W-1909	**0**	**0.0**	**0**	**0**	**0**
W-2305	**6,769**	**0.0**	**-3.65**	**80.5**	**739**
W-543-001	**12**	**0.0**	**0**	**0**	**0**
W-543-003	**45,032**	**0.4**	**0**	**80**	**739**
W-543-1908	**8**	**0.0**	**0**	**0**	**0**
Total:	**216,147**	**4.1**			

4. Comments:

Facility was shutdown on 03-07-2016 at 11:39 to replace temperature controller at W-1909. Facility was restarted on 03-07-2016 at 14:00. Quarterly vapor samples collected from operating and idle extractions wells 3-8-16.

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

Operator Signature: Sam Thomas Date: **04-04-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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-2105	**27,485**	**0.7**	**-7.52**	**55**	**576**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**399,940**	**11.5**	**-9.96**	**55**	**576**
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**
Total:	**427,425**	**12.2**			

4. Comments:

Facility was shutdown on 01-09-2016 due to a high condensation level. Facility was restarted on 01-11-2016. Facility was shutdown on 01-22-2016 due to low discharge separator level. Facility was restarted on 01-28-2016.

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

Operator Signature: _____ Date: **02-10-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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-2105	**54,228**	**0.7**	**-7.52**	**55**	**739**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**419,192**	**11.5**	**-6.96**	**55**	**739**
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**
Total:	**473,420**	**12.2**			

4. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 12 (VES12)
AREA VTFE-HS

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-2105	**52,326**	**1.3**	**-10.75**	**70**	**648**
W-ETS-2008A	**0**	**0.0**	**0**	**0**	**0**
W-ETS-2008B	**359,195**	**8.4**	**-8.52**	**70**	**648**
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**
Total:	**411,521**	**9.6**			

4. Comments:

Facility was shutdown on 03-11-2016 Due to low water in the blower. Facility was restarted on 03-14-2016 Facility was shutdown on 03-22-2016 To install ACPS to W-2105. Facility was restarted on 03-24-2016. Facility was shutdown on 03-27-2016 due to low water in the blower Facility was restarted on 03-29-2016

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

Operator Signature: _____ Date: **04-08-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-20-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**16.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**87,694**	**2.0**
Total:	**87,694**	**2.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**87,694**

6. Comments:

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

Operator Signature: _____ Date: **02-01-2016**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **January** Year **2016**

2. Date compliance sampling performed **01-20-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**11.56**
6-day total precipitation (in):	**1.89**
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	**No**

6. Comments:

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

Operator Signature: Jason Hamilton Date: **05-02-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **744**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-08-2016**
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-1111	**88,356**	**1.9**
Total:	**88,356**	**1.9**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**88,356**

6. Comments:

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

Operator Signature: Jon Hamilton Date: **03-01-2016**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **February** Year **2016**

2. Date compliance sampling performed **02-08-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**10.24**
6-day total precipitation (in):	**0.05**
Average wind speed/direction (mph):	**3/ ESE**

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: Jon Hamilton Date: **05-02-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 01 (GTU01)
AREA TFG-1

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **743**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1111	**89,295**	**2.0**
Total:	**89,295**	**2.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Seco	**TFG-ASW**	**89,295**

6. Comments:

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

Operator Signature: Jean Hamilton Date: **04-01-2016**

Land Observation Report date:
TFG-ASW - Arroyo Seco

1. Reporting Period: Business Month **March** Year **2016**

2. Date compliance sampling performed **03-08-2016**

3. Weather Conditions:

Average air tempertaure (°C):	**12.74**
6-day total precipitation (in):	**1.80**
Average wind speed/direction (mph):	**4/ 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: Joan Hamilton Date: **05-02-2016**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **751**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-13-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**17.6**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1806	**0**	**0.0**
W-1807	**178,390**	**4.0**
Total:	**178,390**	**4.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**178,390**

6. Comments:

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

Operator Signature: _____ Date: **02-01-2016**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **716**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**21.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1806	**0**	**0.0**
W-1807	**172,745**	**4.0**
Total:	**172,745**	**4.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**172,745**

6. Comments:

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

Operator Signature: Joan Hamilton Date: **03-09-2016**

Self-Monitoring Report
LLNL Mini Treatment Unit 02 (MTU02)
AREA TFG-N

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **697**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**18.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1806	**0**	**0.0**
W-1807	**165,938**	**4.0**
Total:	**165,938**	**4.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**165,938**

6. Comments:

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

Operator Signature: Jean Hamilton Date: **04-01-2016**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **686**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-07-2016**
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-1309	**78**	**0.0**
W-1310	**359,821**	**8.8**
Total:	**359,899**	**8.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**359,899**

6. Comments:

Facility was shutdown on 1/22 due to electrical maintenance in the area. The facility was restarted on 1/25.

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

Operator Signature: _____ Date: **02-02-2016**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **751**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-08-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (^{o}C):	**21.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1309	**0**	**0.0**
W-1310	**388,429**	**8.8**
Total:	**388,429**	**8.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**388,429**

6. Comments:

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

Operator Signature: _____ Date: **03-01-2016**

Self-Monitoring Report
LLNL Portable Treatment Unit 5 (PTU5)
AREA TF406

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **749**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2016**
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-1309	**0**	**0.0**
W-1310	**387,352**	**8.6**
Total:	**387,352**	**8.6**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**387,352**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **736**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-07-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**19.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**214,465**	**5.4**
Total:	**214,465**	**5.4**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**214,465**

6. Comments:

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

Operator Signature: Jason Hamilton Date: **02-01-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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):	**02-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**23.3**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**193,780**	**5.7**
Total:	**193,780**	**5.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**193,780**

6. Comments:
Facility shut down on 2/19/16 to 2/22/16 for LBA treatment.

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

Operator Signature: Jon Hamilton Date: **03-01-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 03 (GTU03)
AREA TF406-NW

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **739**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-08-2016**
Influent pH:	**7.5**
Effluent pH:	**7.5**
Effluent Temperature (°C):	**20.7**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1801	**252,386**	**5.7**
Total:	**252,386**	**5.7**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**252,386**

6. Comments:

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

Operator Signature: Jon Hamilton Date: **04-01-2016**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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): **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: **01-29-2016**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **February** Year **2016**

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

January	29	30	31												
February	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): **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 Kawagoe C. Date: **02-26-2016**

Self-Monitoring Report
LLNL Solar Treatment Unit 09 (STU09)
AREA TF518-N

1. Reporting Period: Business Month **March** Year **2016**

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

February	26	27	28	29											
March	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-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: Steve Gawarecki Date: **03-31-2016**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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): **716**

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	**21**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**23**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**44**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**44**

6. Comments:
Transferred 684 gallons of groundwater to TFB main for treatment.

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

Operator Signature: Sam Thoma Date: **02-01-2016**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **332**

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	**4**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**13**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**17**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**16**

6. Comments:
Groundwater from this facility is transferred to TFB Main for treatment. Pneumatic groundwater pumps removed from extraction wells, HDTank operations secured 2-11-16.

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

Operator Signature: _____ Date: **03-07-2016**

Self-Monitoring Report
LLNL Treatment Facility 518-HDTANK (TF518-HDTANK)
AREA TF518-PZ

1. Reporting Period: Business Month **March** Year **2016**

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

March	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	31

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-1615	**0**	**0.0**
W-518-1913	**0**	**0.0**
W-518-1914	**0**	**0.0**
W-518-1915	**0**	**0.0**
SVB-518-201	**0**	**0.0**
SVB-518-204	**0**	**0.0**
Total:	**0**	**0.0**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
West Perimeter Drainage Channel	**TFB-R002**	**0**

6. Comments:

HDTank operations secured 2-11-16. Facility did not operate this reporting month.

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

Operator Signature: _____ Date: **04-01-2016**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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:

The 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: **02-02-2016**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **February** Year **2016**

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

January	30	31													
February	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:
The 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: **03-09-2016**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 1 (CRD1)
AREA TF5475-1

1. Reporting Period: Business Month **March** Year **2016**

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

March	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	31

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:
The 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: **04-12-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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): **747**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**01-12-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**17.1**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**91,688**	**2.1**
W-1415	**0**	**0.0**
Total:	**91,688**	**2.1**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**91,688**

6. Comments:

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

Operator Signature: _____ Date: **02-01-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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): **705**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**02-06-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**15.4**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**83,320**	**1.8**
W-1415	**0**	**0.0**
Total:	**83,320**	**1.8**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**83,320**

6. Comments:

Shutdown facility on 2/6/16 to replace GAC drum. Restarted facility on 2/8/16.

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

Operator Signature: _____ Date: **03-01-2016**

Self-Monitoring Report
LLNL GAC Treatment Unit 09 (GTU09)
AREA TF5475-2

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

Total monthly time facility operated (hours): **752**

3. Monthly Compliance Data:

Date compliance sampling performed (m/d/y):	**03-03-2016**
Influent pH:	**7.0**
Effluent pH:	**7.0**
Effluent Temperature (°C):	**18.5**

4. Wellfield Data:

Source	Monthly Volume(gal)	Instantaneous Flow Rate(gpm)
W-1108	**60,180**	**1.5**
W-1415	**0**	**0.0**
Total:	**60,180**	**1.5**

5. Discharge Information:

Discharge Location	Receiving Water Station	Volume
Arroyo Las Positas	**TFC-R003**	**60,180**

6. Comments:

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

Operator Signature: _____ Date: **04-01-2016**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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:
The 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: **02-02-2016**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **February** Year **2016**

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

January	30	31													
February	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:
The 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: **03-09-2016**

Self-Monitoring Report
LLNL Catalytic Reductive Dehalogenation 2 (CRD2)
AREA TF5475-3

1. Reporting Period: Business Month **March** Year **2016**

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

March	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	31

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:
The 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: **04-12-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **January** Year **2016**

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

December	**30**	**31**													
January	**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	**512,054**	**11.7**	**-2.14**	**60**	**741**
W-514-2007A	**0**	**0.0**	**0**	**0**	**0**
W-514-2007B	**375,486**	**8.3**	**-2.33**	**60**	**741**
Total:	**887,540**	**20.0**			

4. Comments:

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

Operator Signature: J. Hemitte Date: **02-11-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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	**506,410**	**10.1**	**-2.15**	**60**	**744**
W-514-2007A	**0**	**0.0**	**0**	**0**	**0**
W-514-2007B	**371,622**	**8.2**	**-2.34**	**60**	**744**
Total:	**878,032**	**18.3**			

4. Comments:

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

Operator Signature: Jam Hamilton Date: **03-09-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 08 (VES08)
AREA VTF406-HS

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-217	**502,238**	**10.7**	**-2.12**	**68**	**742**
W-514-2007A	**0**	**0.0**	**0**	**0**	**0**
W-514-2007B	**357,149**	**8.2**	**-2.31**	**68**	**742**
Total:	**859,387**	**19.0**			

4. Comments:

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

Operator Signature: Jason Hamilton Date: **04-06-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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-2204	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**545,288**	**12.5**	**-8.3**	**50**	**720**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**699,686**	**15.8**	**-7.6**	**50**	**720**
W-2206	**0**	**0.0**	**0**	**0**	**0**
Total:	**1,244,974**	**28.3**			

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: **02-08-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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-2204	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**0**	**0.0**	**0**	**0**	**0**
W-2207B	**586,698**	**12.8**	**-8.6**	**54**	**748**
W-2208A	**0**	**0.0**	**0**	**0**	**0**
W-2208B	**714,832**	**15.1**	**-8**	**54**	**748**
Total:	**1,301,530**	**27.9**			

4. Comments:

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

Operator Signature: Sam Thorn Date: **03-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 05 (VES05)
AREA VTF511

1. Reporting Period: Business Month **March** Year **2016**

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

March	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	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-2204	**0**	**0.0**	**0**	**0**	**0**
W-2205	**0**	**0.0**	**0**	**0**	**0**
W-2206	**0**	**0.0**	**0**	**0**	**0**
W-2207A	**12**	**0.0**	**0**	**0**	**0**
W-2207B	**640,088**	**15.9**	**-8.2**	**68**	**740**
W-2208A	**16**	**0.0**	**0**	**0**	**0**
W-2208B	**622,940**	**13.2**	**-7.6**	**68**	**740**
Total:	**1,263,056**	**29.2**			

4. Comments:

Quarterly vapor samples collected from operating and idle extraction wells 3-8-16.

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

Operator Signature: Sam Thomas Date: **04-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTF518-PZ

1. Reporting Period: Business Month **January** Year **2016**

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

December	**31**														
January	**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-2215A	**413,156**	**12.6**	**-13.5**	**55**	**583**
W-2215B	**0**	**0.0**	**0**	**0**	**0**
Total:	**413,156**	**12.6**			

4. Comments:

Facility shutdown on 01-09-2016 at 17:30 due to faulty level switch in condensate collection tank. Facility was restarted 01-12-2016 at 14:55 and shutdown at 15:00 hrs due to level switch. Facility was restarted on 01-14-2016 at 13:07. Facility was shutdown on 01-19-2016 at 14:30 to replace float switch in condensate collection tank. Facility was restarted on 01-20-2016 at 13:38.

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

Operator Signature: Sam Thomas Date: **02-03-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTF518-PZ

1. Reporting Period: Business Month **February** Year **2016**

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

January	**30**	**31**													
February	**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-2215A	**822,911**	**12.7**	**-9.8**	**50**	**745**
W-2215B	**346**	**19.4**	**-8.4**	**62**	**0**
Total:	**823,257**	**32.2**			

4. Comments:

Facility was shutdown momentarily on several days during this reporting period to remove water from condensate knockout. Tedlar Bag sample collected from W-2215B on 2-9-16.

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

Operator Signature: Sam Thomas Date: **03-09-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 13 (VES13)
AREA VTF518-PZ

1. Reporting Period: Business Month **March** Year **2016**

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

March	**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**	**31**

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-2215A	**821,892**	**19.3**	**-15.6**	**52**	**741**
W-2215B	**0**	**0.0**	**0**	**0**	**0**
Total:	**821,892**	**19.3**			

4. Comments:

Facility was shutdown momentarily several days during this reporting period to remove water from condensate knockout.

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

Operator Signature: Sam Thomas Date: **04-05-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 1** Year **2016**

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

December **31**
January **01 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	**49,337**	**3.8**	**-14.5**	**45**	**216**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**41,547**	**3.2**	**-16**	**45**	**216**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**90,884**	**7.0**			

4. Comments:

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

Operator Signature: _____ Date: **02-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 2** Year **2016**

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

January **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	**37,967**	**3.8**	**-14.5**	**43**	**167**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**31,972**	**3.2**	**-16**	**43**	**167**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**69,939**	**7.0**			

4. Comments:

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

Operator Signature: _____ Date: **02-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 3** Year **2016**

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

January **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	**38,352**	**3.8**	**-15.5**	**50**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**168**
W-518-1914	**0**	**0.0**	**0**	**0**	**168**
W-518-1915	**27,250**	**2.7**	**-17**	**50**	**168**
SVB-518-201	**0**	**0.0**	**0**	**0**	**168**
SVB-518-204	**0**	**0.0**	**0**	**0**	**168**
Total:	**65,602**	**6.5**			

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: **02-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **January Week: 4** Year **2016**

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

January **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	**40,674**	**4.1**	**-15.5**	**58**	**165**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**23,809**	**2.4**	**-17**	**58**	**165**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**64,483**	**6.5**			

4. Comments:

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

Operator Signature: Jamie Thomas Date: **02-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 1** Year **2016**

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

January	**30**	**31**			
February	**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	**40,745**	**4.1**	**-16**	**45**	**166**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**22,857**	**2.3**	**-18**	**45**	**166**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**63,602**	**6.4**			

4. Comments:

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

Operator Signature: Sara Thomas Date: **03-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 2** Year **2016**

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

February **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	**39,681**	**3.8**	**-16.2**	**64**	**174**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**22,973**	**2.2**	**-17.7**	**64**	**174**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**62,654**	**6.0**			

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: **03-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 3** Year **2016**

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

February **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	**38,617**	**3.9**	**-16**	**58**	**165**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**20,794**	**2.1**	**-18.5**	**58**	**165**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**59,411**	**6.0**			

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: **03-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **February Week: 4** Year **2016**

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

February **20 21 22 23 24 25 26**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**37,855**	**3.8**	**-17.8**	**54**	**166**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**17,931**	**1.8**	**-19**	**54**	**166**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**55,786**	**5.6**			

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: **03-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 1** Year **2016**

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

February **27** **28** **29**
March **01** **02** **03** **04**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**36,083**	**3.6**	**-18.5**	**56**	**167**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**14,032**	**1.4**	**-20**	**56**	**167**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**50,115**	**5.0**			

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: **04-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 2** Year **2016**

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

March **05 06 07 08 09 10 11**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**37,343**	**3.7**	**-19**	**50**	**168**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**13,120**	**1.3**	**-20.5**	**50**	**168**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**50,463**	**5.0**			

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: **04-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 3** Year **2016**

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

March **12 13 14 15 16 17 18**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**35,659**	**3.6**	**-19.5**	**43**	**165**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**11,886**	**1.2**	**-21.5**	**43**	**165**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**47,545**	**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: **04-01-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 19 (VES19)
AREA VTF518-PZ

1. Reporting Period: Business Month **March Week: 4** Year **2016**

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

March **19 20 21 22 23 24 25**

3. Wellfield Data:

Source	Weekly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
W-1615	**39,738**	**3.9**	**-17**	**45**	**170**
W-518-1913	**0**	**0.0**	**0**	**0**	**0**
W-518-1914	**0**	**0.0**	**0**	**0**	**0**
W-518-1915	**15,284**	**1.5**	**-19.5**	**45**	**170**
SVB-518-201	**0**	**0.0**	**0**	**0**	**0**
SVB-518-204	**0**	**0.0**	**0**	**0**	**0**
Total:	**55,022**	**5.4**			

4. Comments:

Slug Recovery test performed on vapor extraction wells W-518-1915 and W-1615 3-23-16.

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

Operator Signature: Sam Thomas Date: **04-06-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **January** Year **2016**

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

December	30	31													
January	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-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-ETS-507	**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 FY2008 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: **02-02-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **February** Year **2016**

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

January	30	31													
February	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-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-ETS-507	**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 FY2008 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: **03-09-2016**

Self-Monitoring Report
LLNL Vapor Extraction System 01 (VES01)
AREA VTF5475

1. Reporting Period: Business Month **March** Year **2016**

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

March	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	31

3. Wellfield Data:

Source	Monthly Volume(cu. ft)	Instantaneous Flow Rate(scfm)	P(in. Hg)	T(°F)	Hours of Op.
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-ETS-507	**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 FY2008 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: **04-12-2016**

Attachment C

Figures

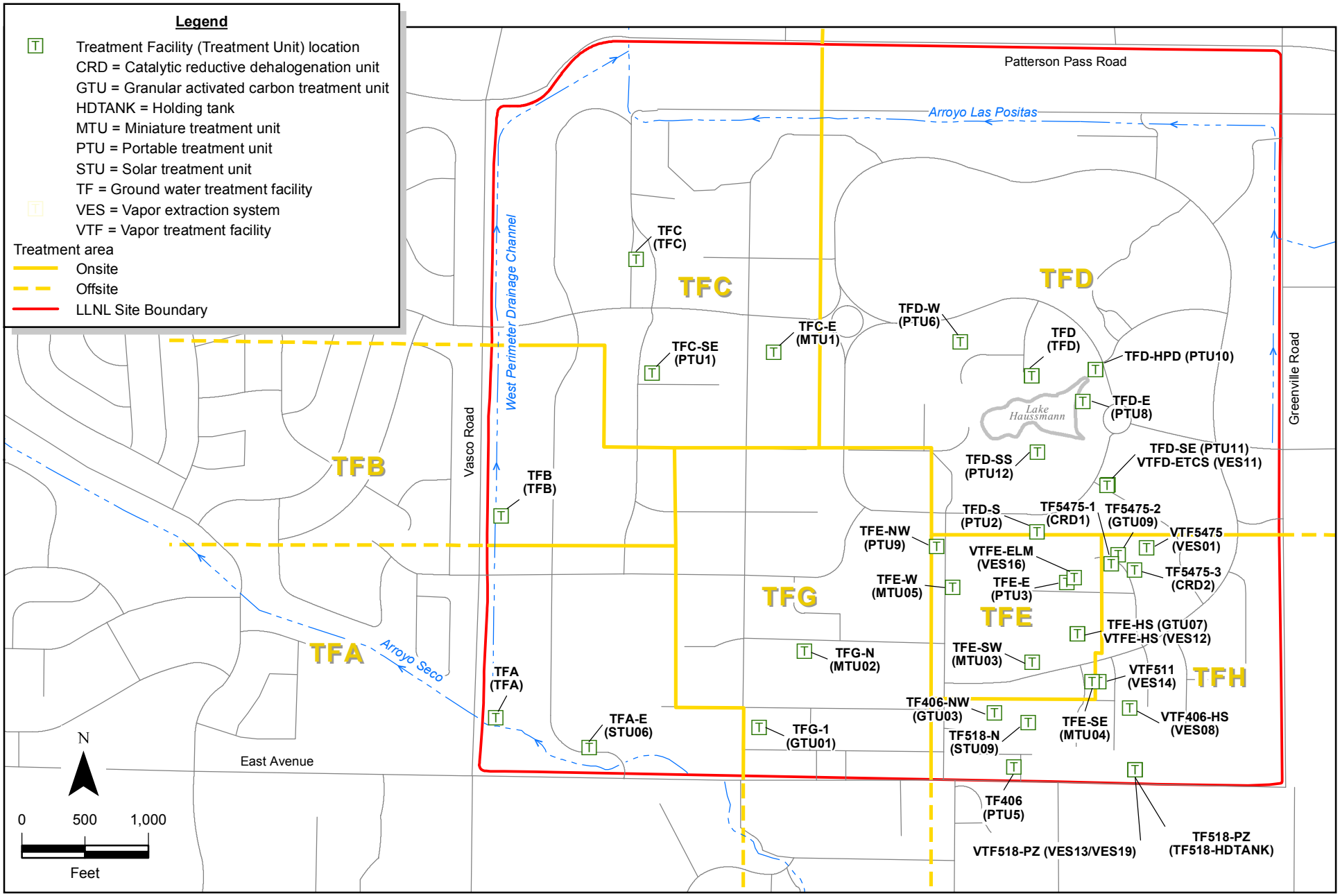

Figure 1. Livermore Site treatment areas and treatment facility locations.

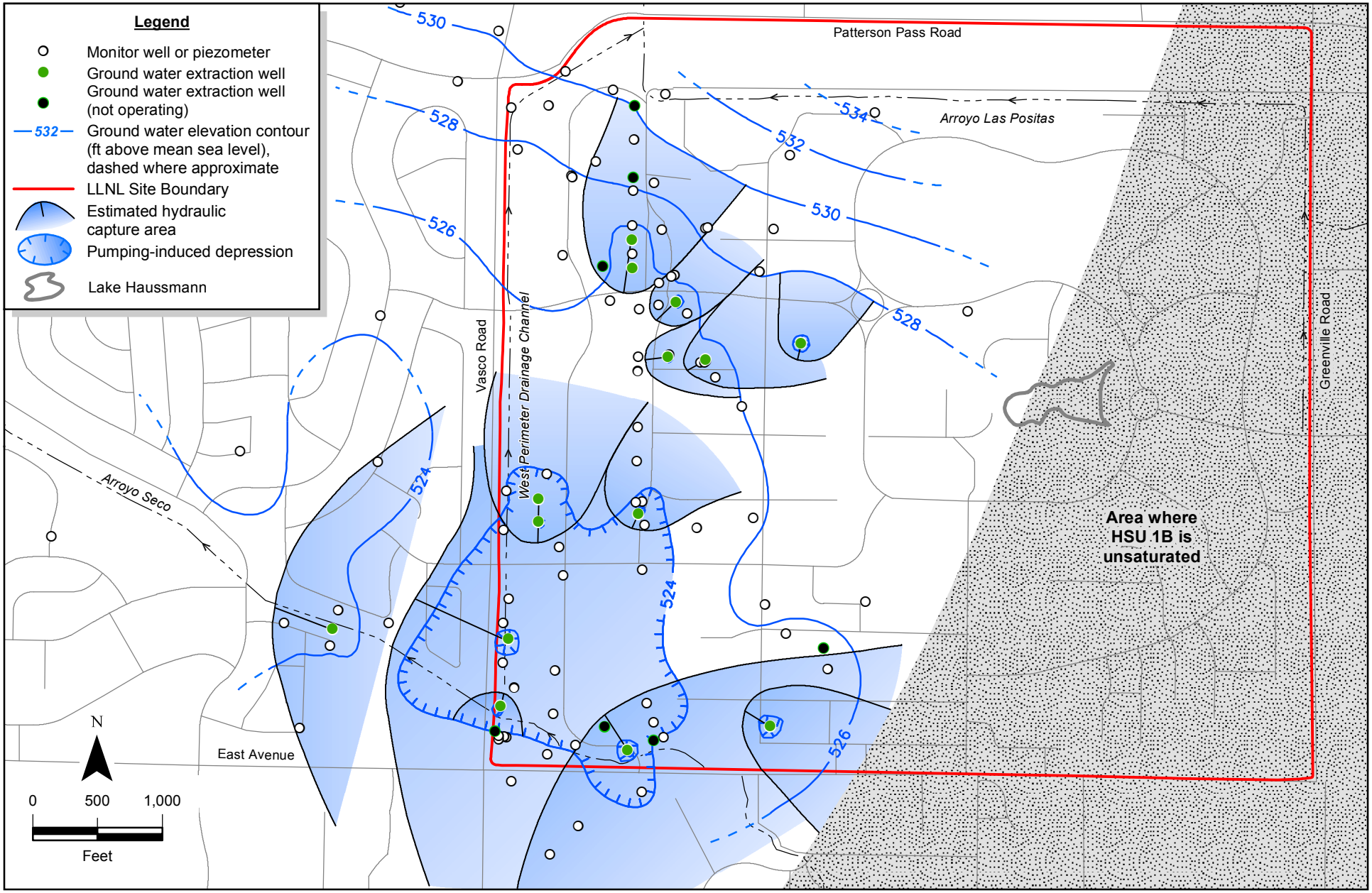

Figure 2. Ground water elevation contour map based on 107 wells completed within HSU-1B showing estimated hydraulic capture areas, LLNL and vicinity, first quarter 2016.

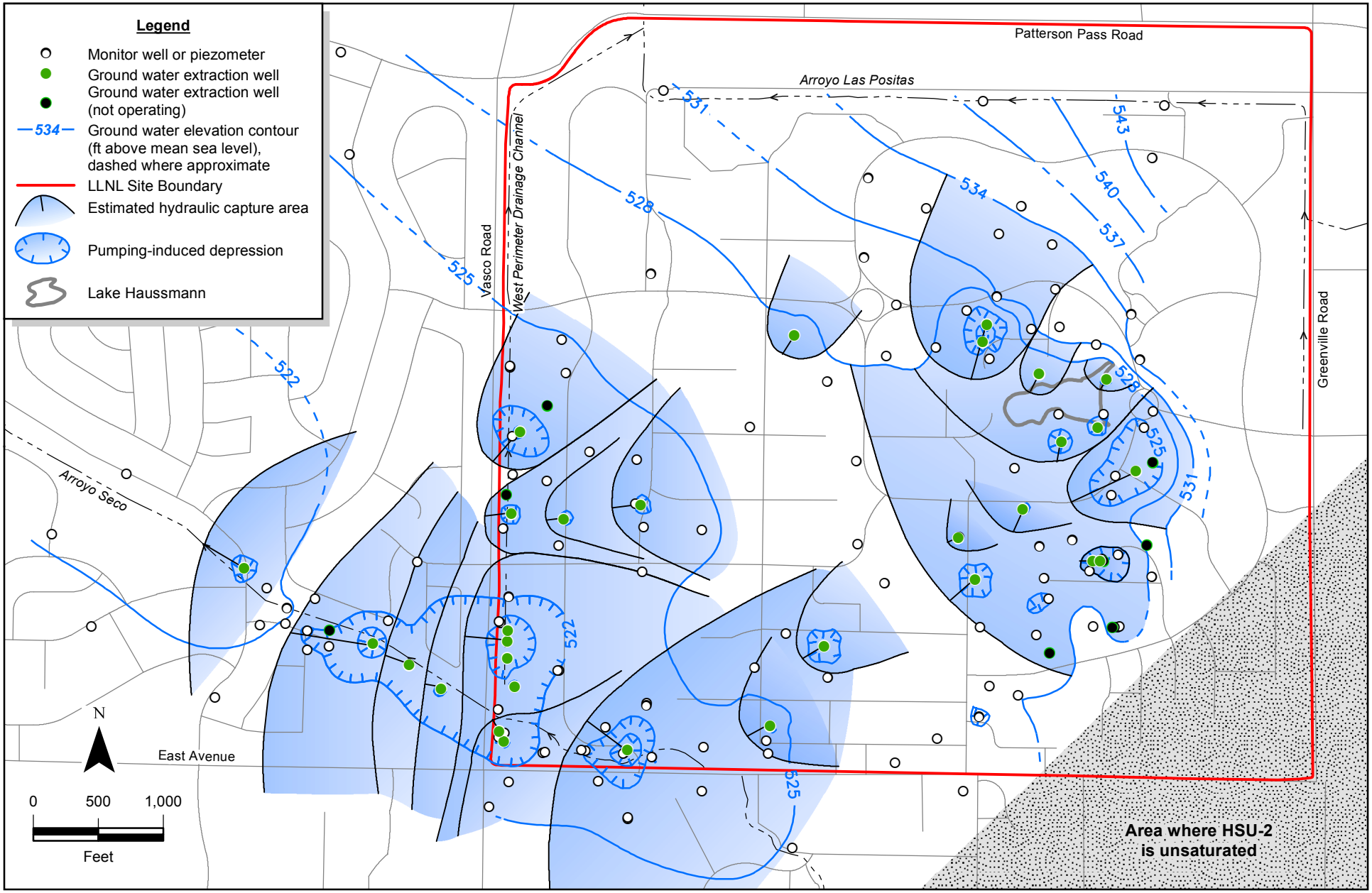

Figure 3. Ground water elevation contour map based on 160 wells completed within HSU-2 showing estimated hydraulic capture areas, LLNL and vicinity, first quarter 2016.

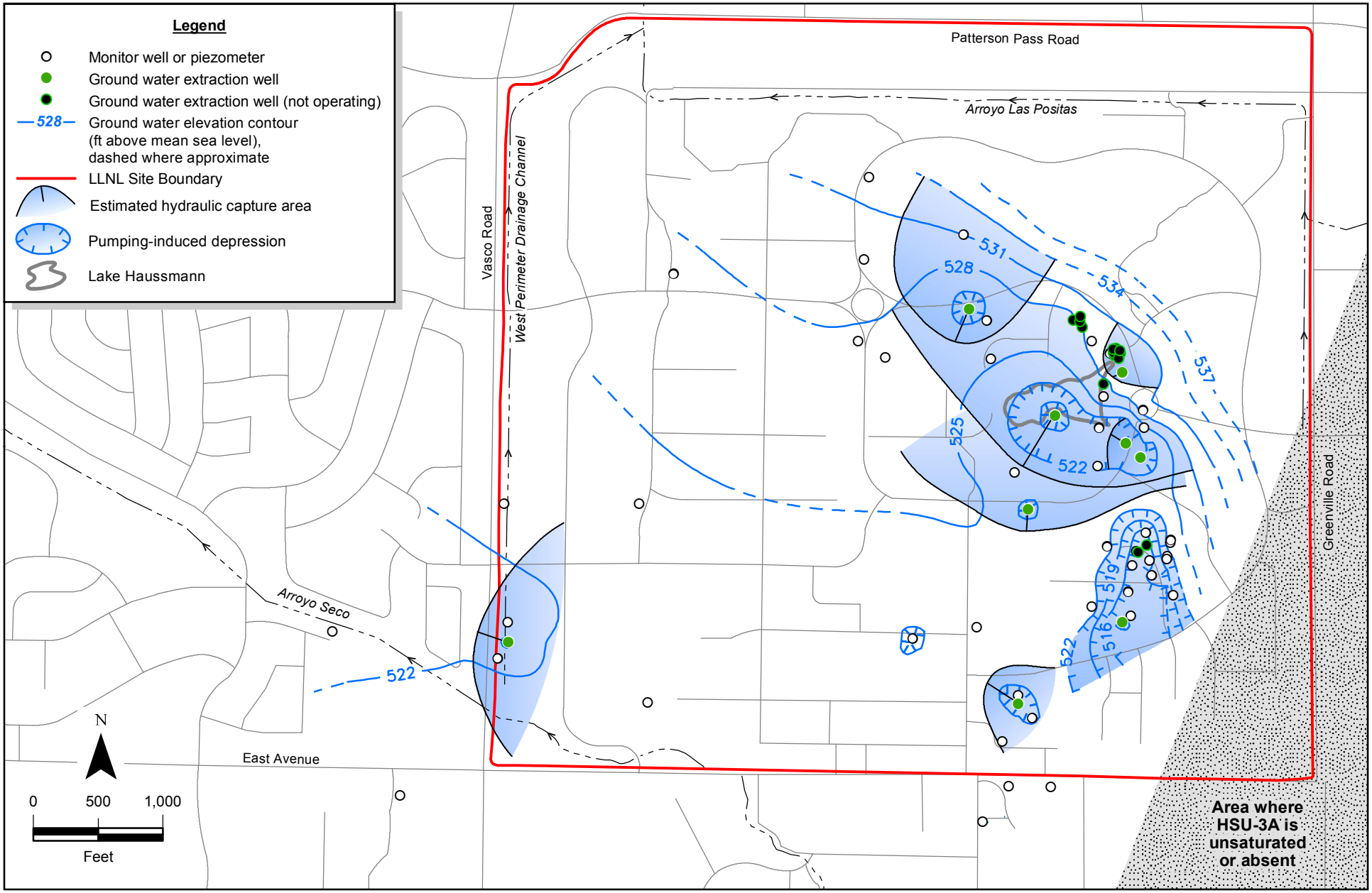

Figure 4. Ground water elevation contour map based on 70 wells completed within HSU-3A showing estimated hydraulic capture areas, LLNL and vicinity, first quarter 2016.

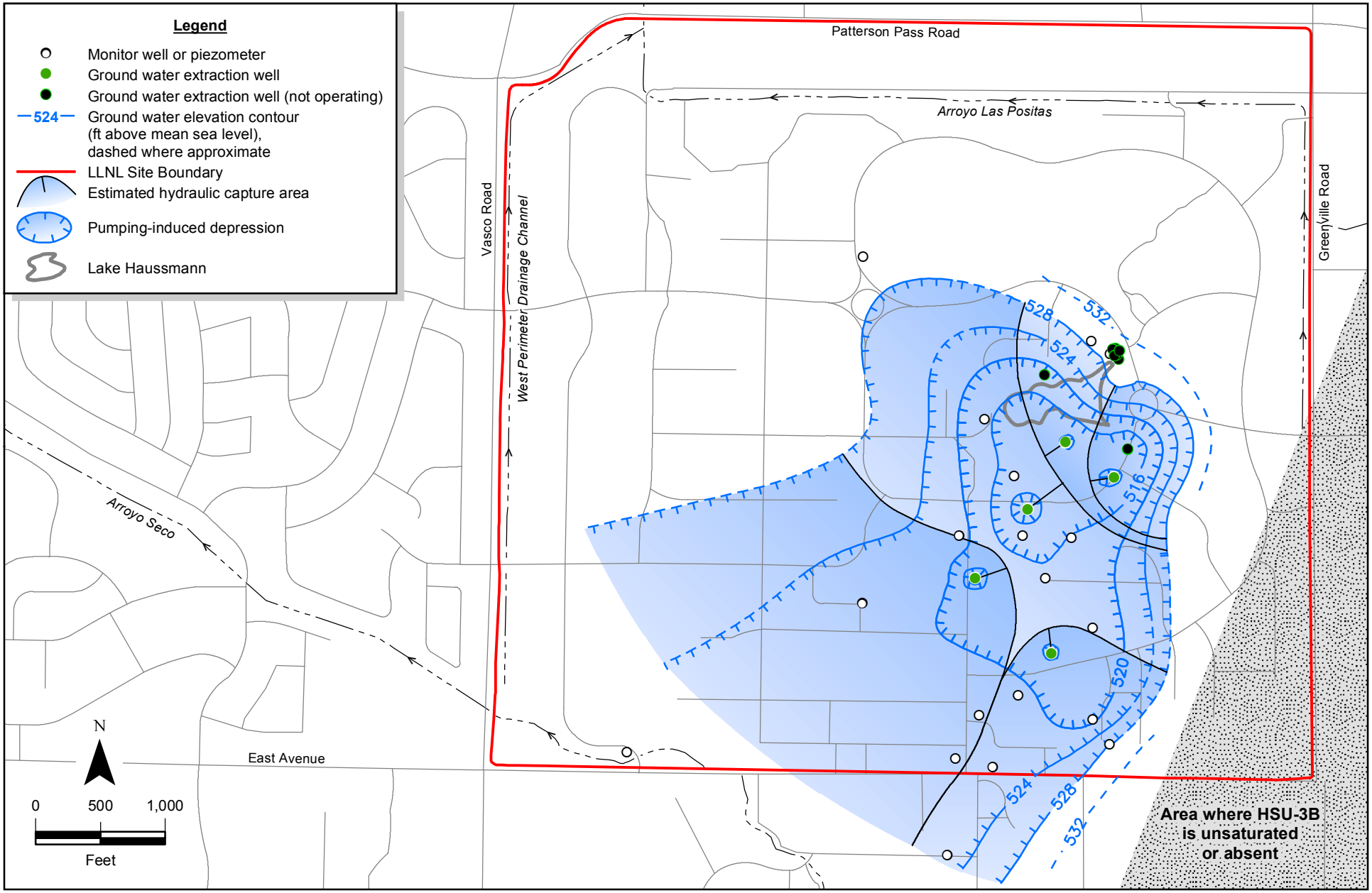

Figure 5. Ground water elevation contour map based on 32 wells completed within HSU-3B showing estimated hydraulic capture areas, LLNL and vicinity, first quarter 2016.

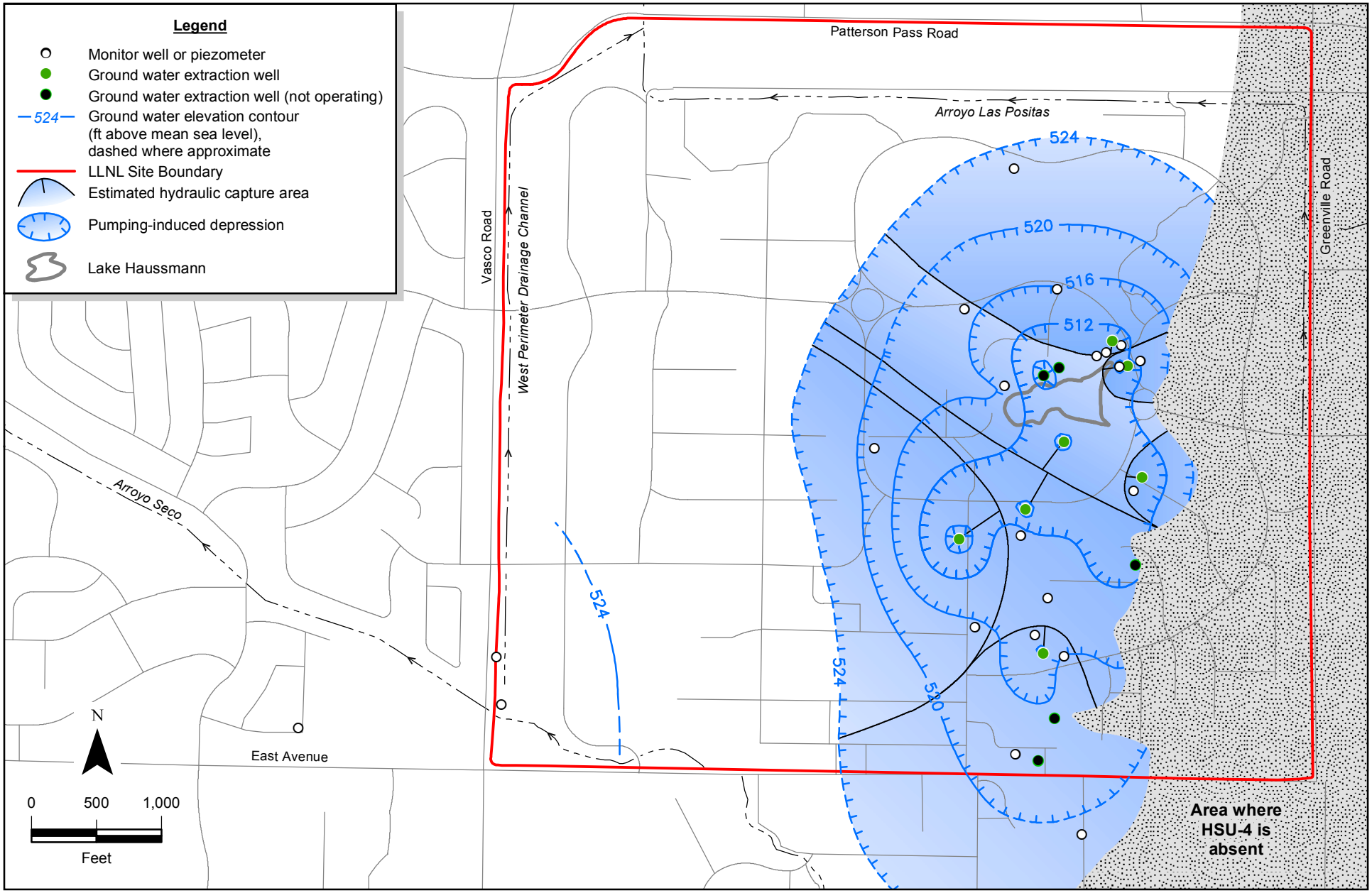

Figure 6. Ground water elevation contour map based on 33 wells completed within HSU-4 showing estimated hydraulic capture areas, LLNL and vicinity, first quarter 2016.

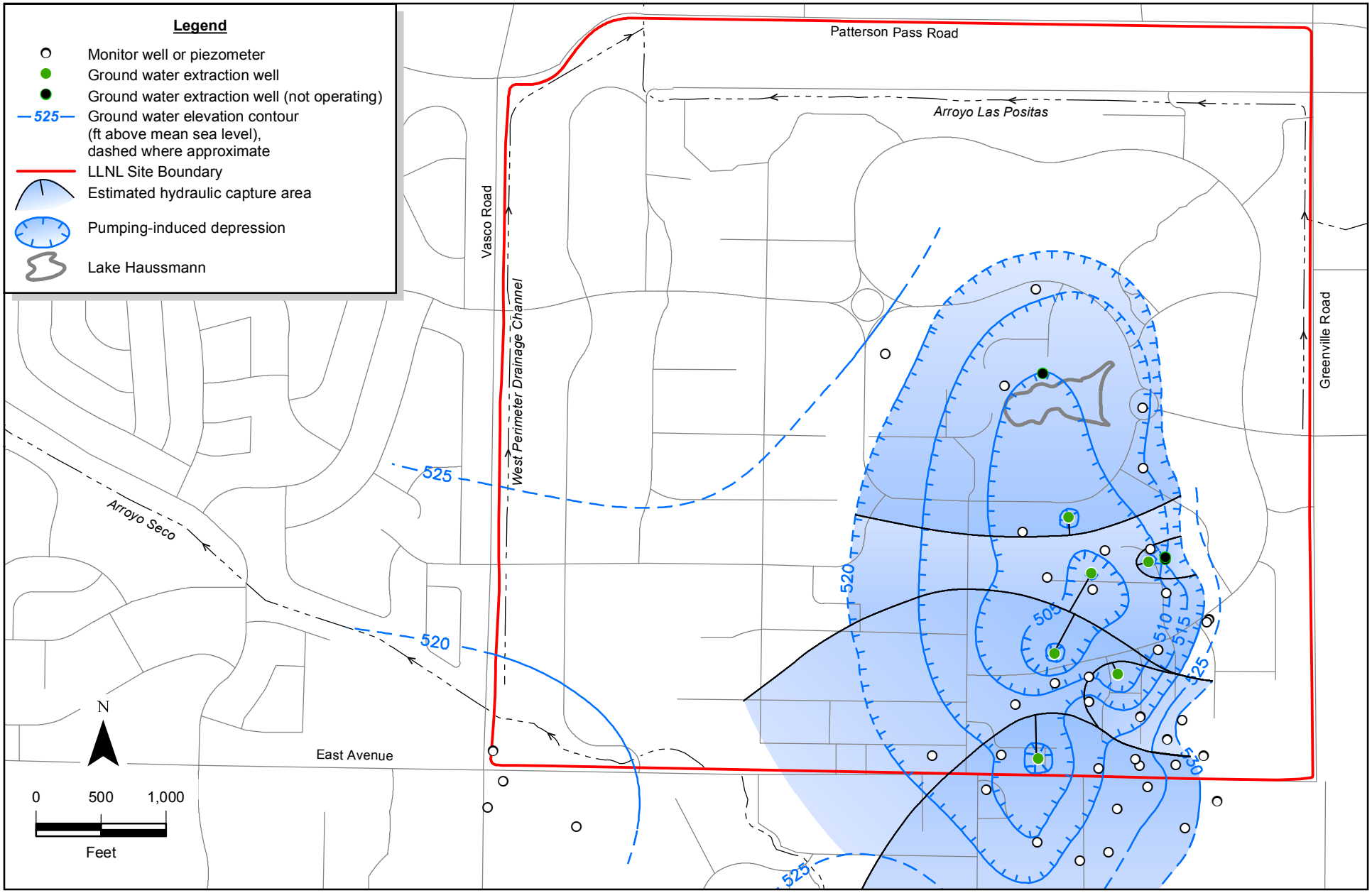

Figure 7. Ground water elevation contour map based on 51 wells completed within HSU-5 showing estimated hydraulic capture areas, LLNL and vicinity, first quarter 2016.