HELOTES MULCH FIRE 2006

Tracing Groundwater Flow Using Natural Fluorescent Materials

Report No. 18-03
March 2018

EDWARDS AQUIFER
AUTHORITY

HELOTES MULCH FIRE 2006

Tracing Groundwater Flow Using Natural Fluorescent Materials

by Steve Johnson, P.G.

Report No. 18-03
March 2018

CONTENTS

Tables

Figures

INTRODUCTION

On the evening of December 25, 2006, an 80-ft-high debris pile located in Helotes, Texas, caught fire. The debris consisted of brush, trees, and other materials from area developers that had been converted to mulch over several years and stored until the pile had reached approximately 400 × 225 ft. The fire was finally extinguished on March 28, 2007, after firefighters had trained millions of gallons of water onto the pile. Appendix A contains a timeline of the fire.

The debris pile was located on the edge of the Edwards Aquifer recharge zone (RZ) (Figure 1). The Georgetown Formation, which is the uppermost unit of the Edwards Aquifer, underlies the former footprint of the pile. Some maps show Leona Gravels in that area, but that formation is not thick enough to isolate surface activities from the Edwards Aquifer. In fact, quarrying activities and erosion by Helotes Creek removed most or all of the overburden on the Edwards Aquifer near the former footprint. The definition of the RZ in that area at least partly coincides with the Georgetown outcrop and the current and ancestral Helotes Creek channel, allowing water to infiltrate into the Edwards Aquifer. In addition, a large trench as much as 24 ft deep was excavated beneath the debris pile prior to September 5, 1996 (LFCI, 2011).

Recharge is not limited to the Helotes Creek channel. The area is characterized by faults associated with the Balcones Fault Zone, with displacements of more than 300 ft that separate the RZ from the Edwards Aquifer artesian zone (AZ). Groundwater infiltrates and flows rapidly through openings caused by the faults and through dissolution features in the limestone, which is characteristic of karstic terrane.

When firefighters sprayed millions of gallons of water onto the Helotes Fire, runoff carried potential pollutants into the Edwards Aquifer RZ. The Edwards Aquifer Authority (EAA) mobilized staff to investigate the extent of groundwater pollution in collaboration with the Texas Water Development Board (TWDB), Texas Commission on Environmental Quality (TCEQ), and the San Antonio Water System (SAWS). Sampling crews collected thousands of groundwater samples from nearby wells to characterize the nature of the contamination. The samples were analyzed for products of combustion, such as polyaromatic hydrocarbons (PAHs) and naturally occurring fluorescent materials. The purpose of this report is to present results of fluorescence analyses that were used as natural tracers to estimate the extent of groundwater contamination.

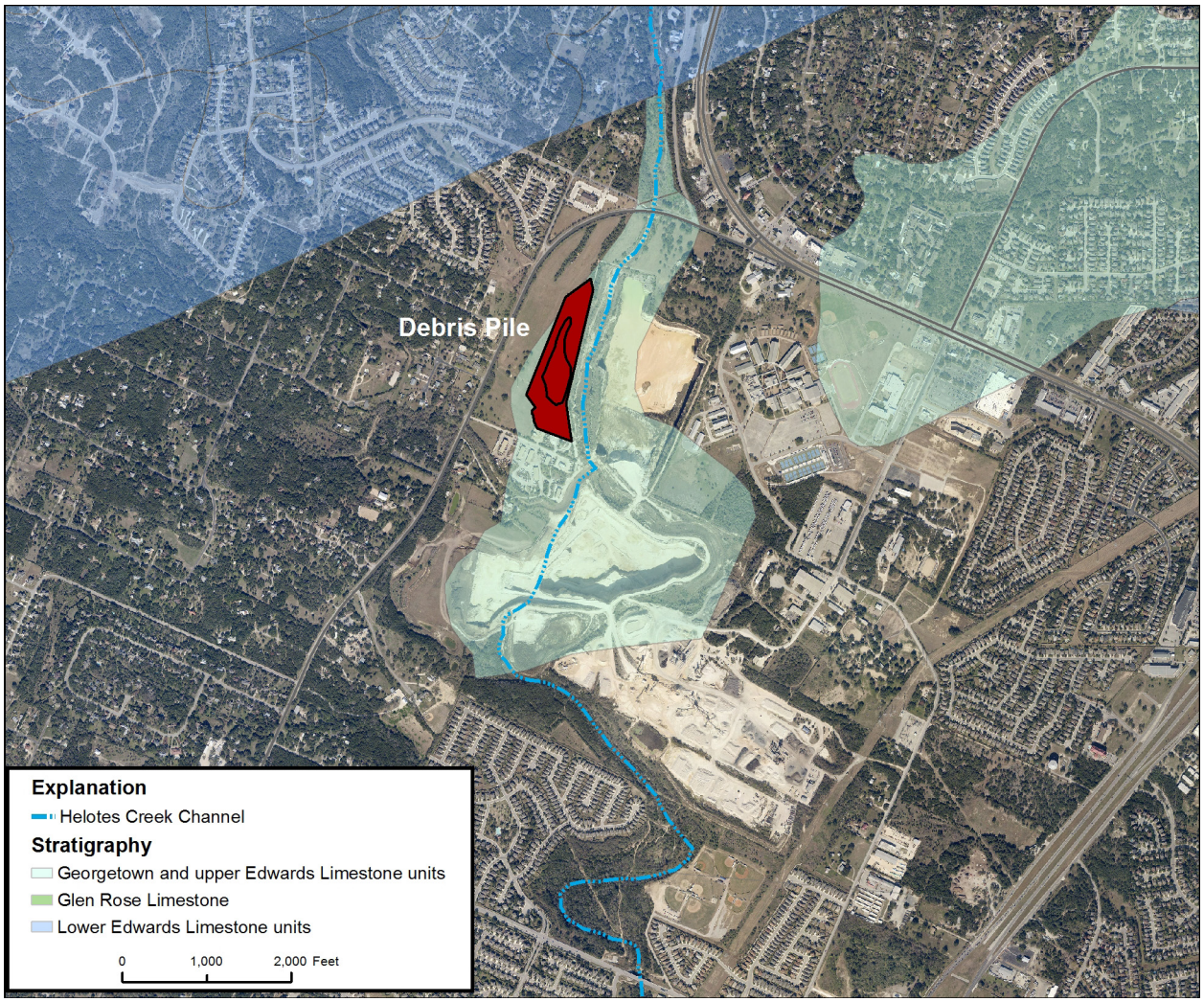

Figure 1. Location of Debris Pile

NATURAL FLUORESCENT MATERIALS

Groundwater naturally contains humic substances, such as humic and fulvic acids that are derived from rotting vegetative materials. The molar mass of fulvic acids ranges from 500 to 2,000 g/mol, whereas the molar mass of humic acids ranges from 2,000 to 5,000 g/mol. The concentration of humic substances is typically expressed as organic carbon, either total organic carbon (TOC) for unfiltered samples or dissolved organic carbon (DOC) for filtered samples. However, the concentrations may also be represented by the fluorescent properties of humic substances, the concentrations of which are proportional to the intensity of the fluorescence of the molecules. In addition, the spectra of wavelengths of light emitted by the molecules when they fluoresce create a fingerprint of the humic substances in the water. In the case of the Helotes mulch fire, humic substances and the products of combustion carried by runoff water created a fingerprint to distinguish the runoff water from ambient groundwater. Although these fluorescent compounds occur naturally in groundwater in trace concentrations, combustion increased their concentrations significantly in runoff and quench-pit water, and their fluorescence was considerably higher than background.

METHODOLOGY

Natural fluorescence is measured by the intensity of light emitted by a molecule after it has been excited by light of another wavelength. Humic and fulvic acids fluoresce at characteristic wavelengths of light. The fluorescence spectra of the groundwater samples were measured using a Perkin Elmer LS-50B luminescence spectrometer, which produces wavelengths of light in the ultraviolet (<400 nm) to visible (400–700 nm) spectrum. The fluorescence spectroscopy consisted of scanning and recording emission spectra (280–500 nm) from 20 separate excitation scans ranging from 220 to 410 nm in 10-nm increments. The bandwidths (or slits) for both excitation and emission were 4 nm. Analytical data consisted of an intensity measured at each intersection of an excitation and emission wavelength for a total of 2,382 points. More than 3,000 samples were analyzed. Raman scatter peaks (which are characteristic of water) were minimized by subtracting the spectra produced by deionized water recorded under the same conditions from each sample spectrum. Rayleigh-Tyndall interference patterns that occur where excitation and emission wavelengths are equal were also removed from the final data set. A Uranine dye standard (0.945 µg/L) was analyzed each day to check for instrument drift and to measure precision. Humic and fulvic substances can be identified by their position in the excitation/emission matrix (EEM) (Figure 2).

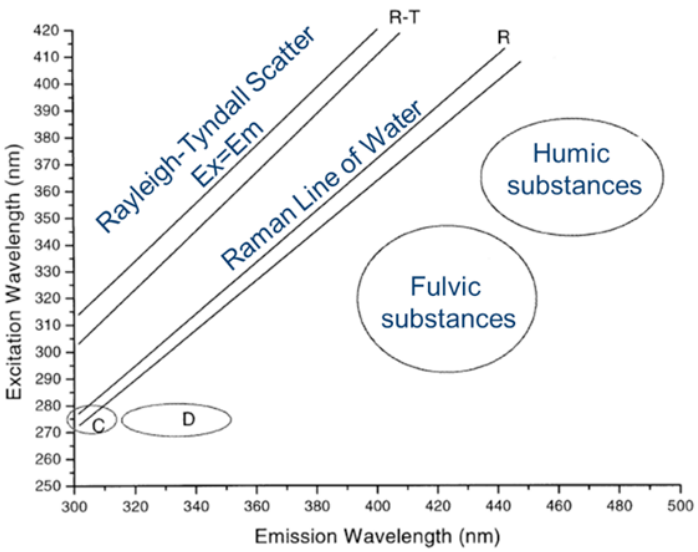

Figure 2. Excitation/Emission Matrix

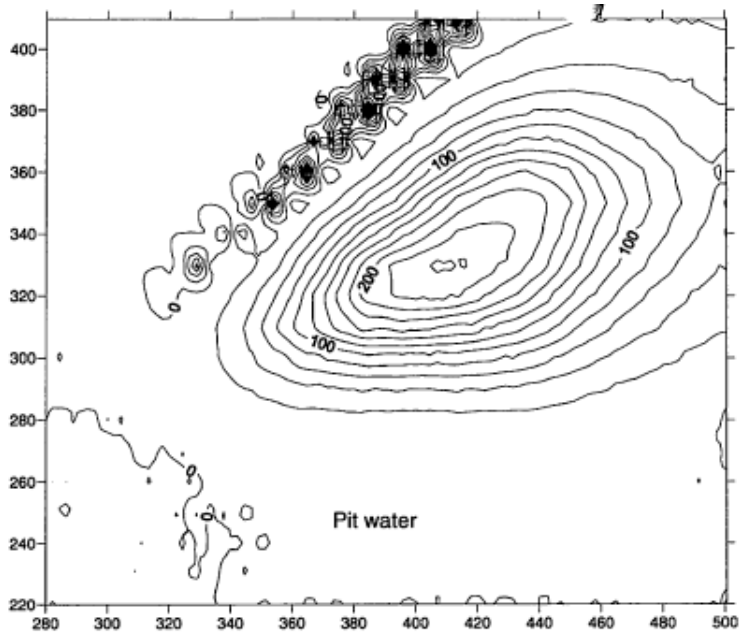

Figure 3. EEM Distribution of a Sample of Quench-Pit Water

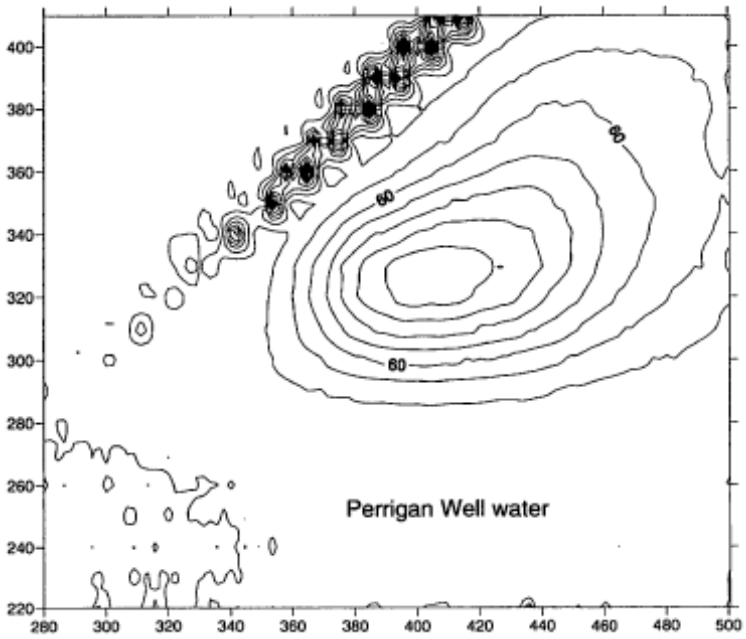

Figure 4. EEM Distribution of 10586 Parrigin Well (10) (1/29/2007)

The analyses provide information regarding both the concentrations and composition of the humic substances in the samples. A three-dimensional contour plot of each sample shows both the intensity of the fluorescence and the distribution of intensities with respect to excitation and emission wavelengths. Figure 3 depicts an example of fluorescence results for a sample of fire-fighting runoff water that was collected in the quench pit on the north end of the debris pile. Figure 3 also shows that the fluorescence intensity exceeded 230 (arbitrary units) and the EEM distribution is broadly oval—a pattern consistent with that of fulvic and humic substances (Figure 2) and a fingerprint typical of water that passed through the debris pile. Figure 4 shows results from a

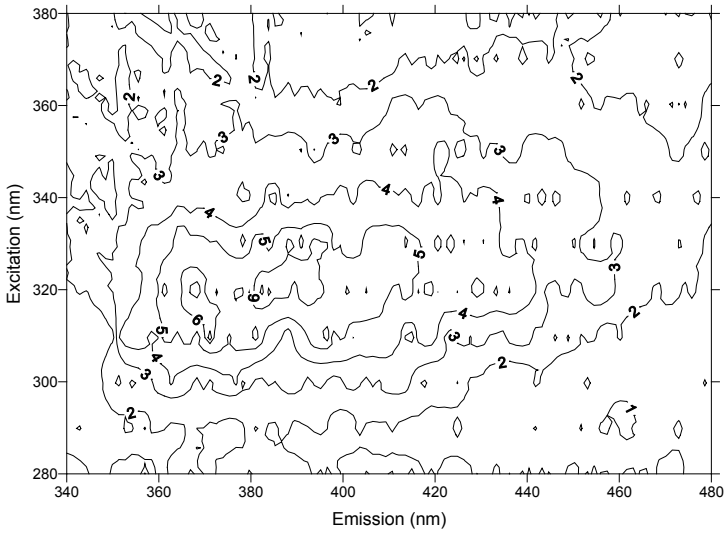

Figure 5. EEM Distribution of a Background Sample from 9944 Leslie Rd (13) (1/24/2007)

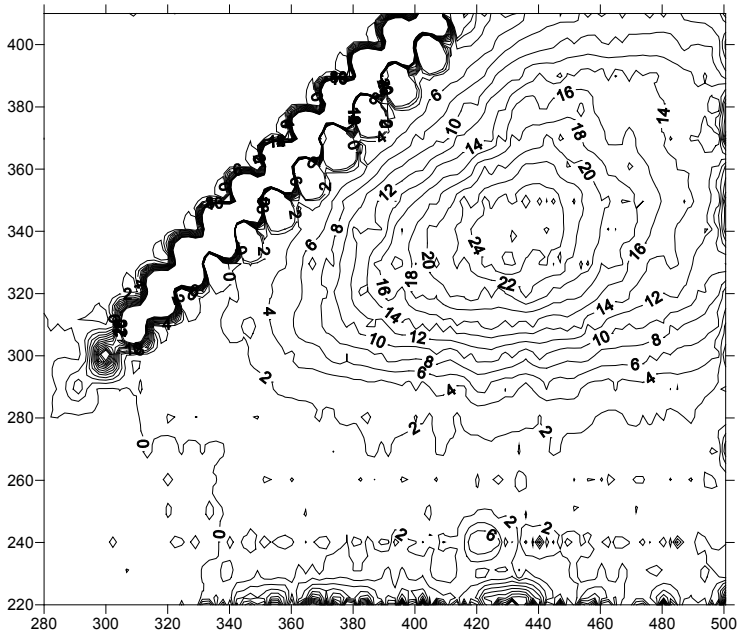

Figure 6. EEM Distribution of Government Canyon Well

sample collected from 10586 Parrigin on January 29, 2007, which was known to contain water from the debris pile because of its smoky odor. Its maximum intensity was approximately 120, and the shape and position of the EEM distribution were similar to those of water from the site. Figure 5 shows the EEM distribution of a background sample unimpacted by water from the debris-pile site. The intensities are lower, and the orientation of distribution is less distinct. Other examples of impacted water are shown in Figure 6, a sample from the Government Canyon State Natural Area (GCSNA) well, and Figure 7, a sample from the well at 12037 FM 1560N.

Given the large number of samples analyzed, graphical results for each sample would be too unwieldy to use for

comparison with other samples. Instead, two parameters were used to represent each analysis: maximum intensity and average intensity. Maximum intensity, along with the excitation-emission pair that produced it, was measured in the EEM grid (such as those shown in Figures 2–4), and average intensity was calculated for a defined EEM region. Because high concentrations of humic substances create a broad, oval surface, an average intensity in the humic substance region would tend to be high for samples impacted by water from the debris pile. Because background sample analyses have a relatively flat surface, both maximum and average intensities are expected to be low. Excitation and emission wavelengths of the maximum intensity also help to identify the source of humic substances. Initial analyses indicated excitation wavelengths of 330 and 340 nm, and emission wavelengths of between 380 and 430 enclosed the area in which highest intensities typically occurred for samples impacted by water from the debris pile, according to quench-pit samples. Therefore, a sample impacted by water from the debris pile would have a relatively high maximum intensity in the appropriate EEM location and a relatively high average intensity in the selected EEM region.

We constructed time-series charts using the analyses by plotting date and time of sample collection and an average of the highest 10 EEM intensities within the analytical footprint of the fire-fighting water signal for each analysis. Ten intensity measurements were used because the shapes of the EEM spectra were broad rather than sharp and because additional measurements would be more representative of the analysis than a single point in the EEM spectra. In addition, during the latter phases of the project, the analytical footprint was reduced in area to shorten the analytical time, and time-series charts were constructed to show intensities of naturally fluorescing materials or products of combustion with time. Both calculations provided the same conclusions. This time-varying behavior is also known as a breakthrough curve, and it may be used to determine when potential pollutants from the debris pile arrived at each well. Groundwater velocities calculated from breakthrough curves represent apparent velocities. Actual velocities are probably faster because groundwater flows along a tortuous flowpath rather than a straight line.

Groundwater samples were collected from more than 100 private and public water wells near the debris pile (Figure 8). Sampling frequencies varied according to previous results and acquisition of permission from well owners. The top 20 most frequently sampled sites were sampled at least 70 to more than 200 times, and 42 sites were sampled at least 10 times between January 12 and April 9, 2007. Samples were collected in glass bottles and then transferred to glass eight-mL screw-top vials. The sample site and time were written in non-fluorescent, permanent ink near the top of the vial. Selected groundwater samples were also analyzed for PAHs, which are produced by combustion. No PAHs were detected in samples collected by EAA (Table 1), although several compounds were detected in samples collected by TCEQ (Table 2). Only one PAH compound, 4-methylphenol, exceeded its protective concentration level (PCL) in the sample from 10546 Parrigin on January 20, 2007.

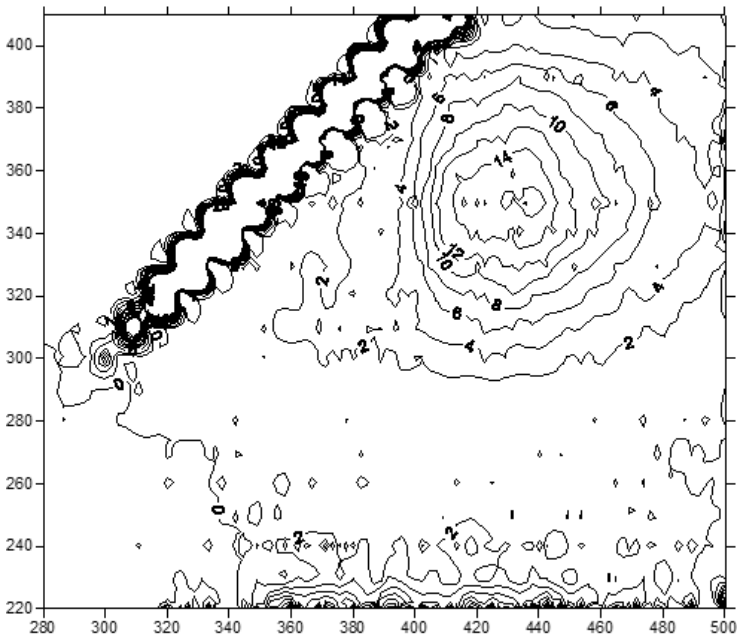

Figure 7. EEM Distribution of 12037 FM 1560N Well (10)

Table 1. List of Wells Sampled by EAA for PAH

Well Name	Sample Date
AY-68-27-517 (114)	01/24/2007 12:25:00 PM
10030 Braun Rd. (14)	01/13/2007 1:30:00 PM
10030 Braun Rd. (14)	01/19/2007 3:55:00 PM
Helotes Plant (4)	01/12/2007 10:15:00 AM
Helotes Plant (4)	01/12/2007 4:05:00 PM
Helotes Plant (4)	01/18/2007 11:55:00 AM
12354 FM 1560N (1)	04/10/2007 10:55:00 AM
12951 Bandera Rd. (15)	01/13/2007 11:45:00 AM
12951 Bandera Rd. (15)	01/18/2007 1:55:00 PM
8324 South Verde Drive (19)	01/19/2007 2:35:00 PM
9850 Signal Hill (3)	01/12/2007 3:35:00 PM
9850 Signal Hill (3)	01/18/2007 12:30:00 PM
9944 Leslie Rd. (13)	01/13/2007 2:15:00 PM
9944 Leslie Rd. (13)	01/18/2007 2:45:00 PM
12354 FM 1560N (1)	01/12/2007 2:25:00 PM
12354 FM 1560N (1)	01/19/2007 3:20:00 PM

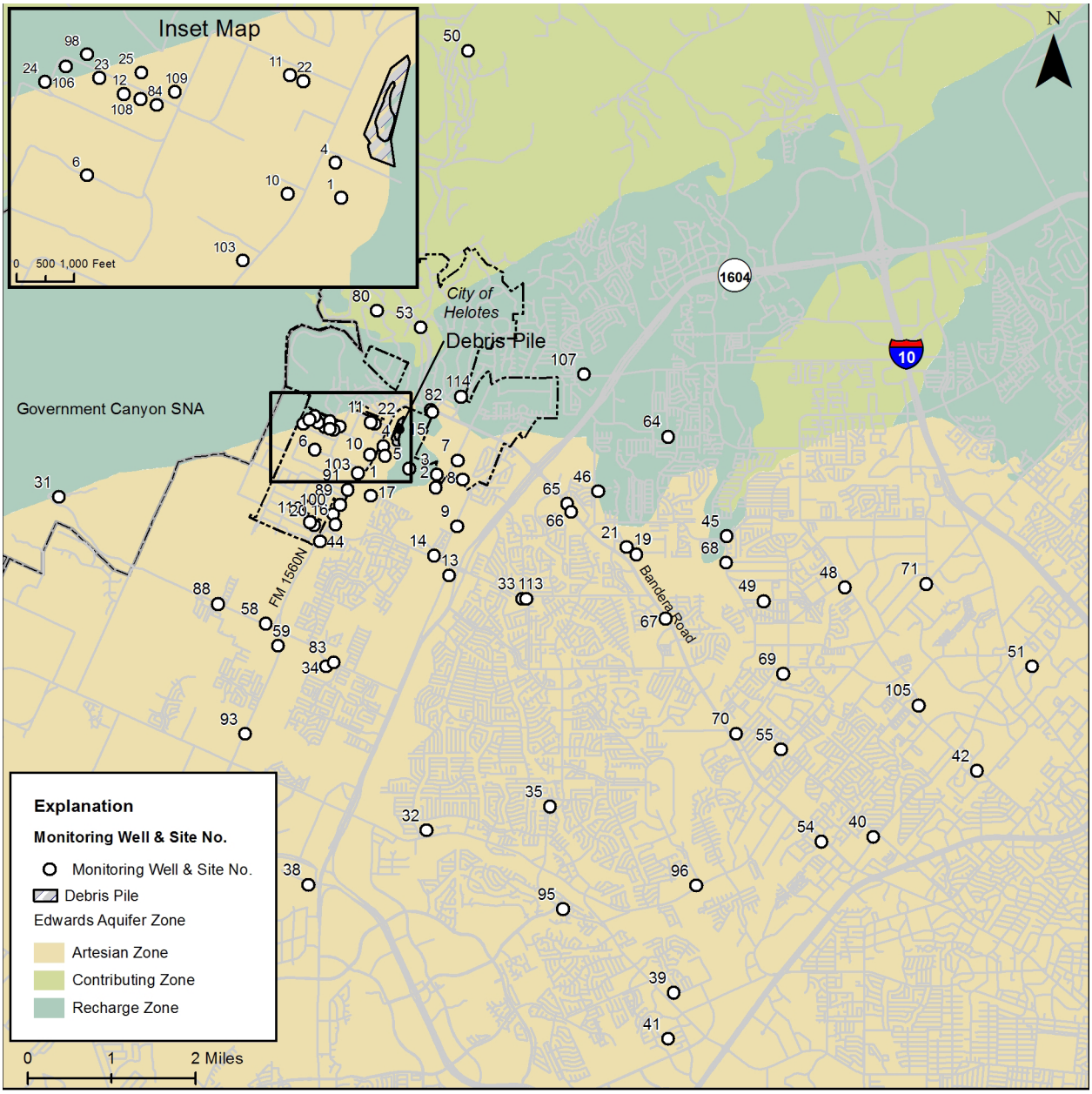

Figure 8. Sample Locations

Table 2. Impacted Sampling Sites with PAH Analyses

Well Address Site Number	Fluorescence Maximum Intensity*	Number of Impacted Samples as Indicated by Fluorescence	Specific Compound Detected (Samples Collected by TCEQ)	Results (µg/L)**	Drinking Water Standard (µg/L)
12354 FM 1560N (1) (Well)	19.2	1	1/22/2007Anthracene	0.184	7,300 (PCL)
11618 Rainbow Ridge (2)	42.3	19	Not sampled		
9850 Signal Hill (3)	9.71	12	Not sampled		
Helotes Plant (4)	45.4	6	Not sampled		
12037 FM 1560N (10)	74.7	68	Not sampled		
10546 Parrigin (22)	120	99	**1/19/2007** Fluorene Naphthalene **1/20/2007** 2,4-Dimethylphenol 2-Methylphenol 4-Methylphenol bis(2-ethylhexyl) Phthalate Phenol Acenaphthene Fluorene 2-Butanone 2-Hexanone Acetone Benzene o-Xylene Toluene	 0.258 1.06 29.2 130 228 2.00*** 268 0.318 0.198 429 9.64 2070*** 0.840 0.420 0.880	 980 (PCL) 490 (PCL) NE 1,200 (PCL) 120 (PCL) 6 (PCL) 7,300 (PCL) 1,500 (PCL) 980 (PCL) 15,000 (PCL) 120 (PCL) 22,000 (PCL) 5 (MCL) 10,000 (MCL) 1,000 (MCL)

Table 2. (cont.)

Well Address Site Number	Fluorescence Maximum Intensity*	Number of Impacted Samples as Indicated by Fluorescence	Specific Compound Detected (Samples Collected by TCEQ)	Results (µg/L)**	Drinking Water Standard (µg/L)
10586 Parrigin (11)	159	101	**1/19/2007** Naphthalene **1/20/2007** 2,4-Dimethylphenol 2-Methylphenol 4-Methylphenol Phenol Acenaphthylene Fluorene 2-Butanone 2-Hexanone Acetone Benzene **1/22/2007** Naphthalene 2-Methylphenol 3&4-Methylphenol Phenol **1/24/2007** 2-Methylphenol 3&4-Methylphenol Phenol	 0.451 17.6 71.2 107 121 0.178 0.123 259 6.34 1290*** 0.570 0.181 23 31 25 25 40 28	 490 (PCL) NE 1,200 (PCL) 120 (PCL) 7,300 (PCL) 1,500 (PCL) 980 (PCL) 15,000 (PCL) 120 (PCL) 22,000 (PCL) 5 (MCL) 490 (PCL) 1,200 (PCL) NE 7,300 (PCL) 1,200 (PCL) NE 7,300 (PCL)
11004 Mesquite Flat (12)	19.3	5	Not sampled		
10030 Braun Rd. (14)	14.5	1	Not sampled		
12951 Bandera Rd. (15)	36.4	5	Not sampled		
11125 FM 1560N (16)	18.7	3	Not sampled		
11762 FM 1560N (17)	89.8	87	Not sampled		
8324 South Verde Drive (19)	55.4	5	Not sampled		
11033 Baxtershire (20)	28.3	34	Not sampled		
8310 N. Verde Dr. (21)	21.8	24	Not sampled		
12864 Wagon Pass (24)	62.0	8	Not sampled		
10973 Mesquite Flat (25)	68.5	76	Not sampled		
12861 Galm Rd. (31)	29.8	5	Not sampled		
9514 Braun Rd at Old Tezel (33)	17.5	2	Not sampled		
7450 Prue Rd. (45)	12.7	1	Not sampled		
15197 Marin Hollow (80)	60.7	2	Not sampled		
11515 FM 1560N (91)	26.9	17	Not sampled		
11050 Mesquite Flat (23)	32.5	1	Not sampled		
11021 FM 1560N (100)	44.9	16	Not sampled		
2827 Babcock (101)	31.5	1	Not sampled		
12801 Wagon Pass (106)	33.5	14	Not sampled		

Table 2. (cont.)

Well Address Site Number	Fluorescence Maximum Intensity*	Number of Impacted Samples as Indicated by Fluorescence	Specific Compound Detected (Samples Collected by TCEQ)	Results (µg/L)**	Drinking Water Standard (µg/L)
10903 Mesquite Flat (109)	101	4	Not sampled		
			1/18/2007		
			2,4-Dimethylphenol	436	NE
			2-Methylphenol	364	1,200 (PCL)
			4-Methylphenol	952	120 (PCL)
			di-n-butyl Phthalate	53.0	2,400 (PCL)
			Phenanthrene	5.0	730 (PCL)
			Phenol	372	7,300 (PCL)
			2-Butanone	37.1	15,000 (PCL)
			Acetone	245***	22,000 (PCL)
			Benzene	3.47	5 (MCL)
			Bromodichloromethane	1.12	15 (PCL)
			Bromoform	0.270	120 (PCL)
			Chloroform	1.30	240 (PCL)
			Dibromochloromethane	1.09	11 (PCL)
			m,p-Xylene	0.710	10,000 (MCL)
			Naphthalene	7.17	490 (PCL)
			o-Xylene	0.490	10,000 (MCL)
			Toluene	1.90	1,000 (MCL)
			2/14/2007		
			Acenaphthene	0.116	1,500 (PCL)
			Fluorene	0.762	980 (PCL)
			Naphthalene	2.46	490 (PCL)
			Phenanthrene	1.20	730 (PCL)
			Pyrene	0.199	730 (PCL)
			Benzoic Acid	307	98,000 (PCL)
			2,4-Dimethylphenol	247	NE
			2-Methylphenol	228	1,200 (PCL)
			3&4-Methylphenol	508	NE
			Phenol	283	7,300 PCL)
12354 FM 1560N			Arsenic	11	10 (MCL)
Quench-Pit Water	254	3	Lead	2.0	15 (MCL)

*Fluorescence indicates organic matter in groundwater samples. Fluorescence patterns detected in impacted samples from wells matched fluorescence patterns in liquid samples from debris-fire quench pit.

**EAA also collected samples for specific compound analysis; however, no compounds were detected in EAA's samples.

***Laboratory artifact.

MCL = Maximum contaminant level established by USEPA.

PCL = Protective concentration level established by TCEQ.

NE = None established.

µg/L = Microgram per liter/

FIRE-FIGHTING EFFORTS

A timeline of the fire-fighting efforts prepared by the *San Antonio Express-News* is provided in Appendix A. The owner of the property, H. L. Zumwalt Recycling Center, initially sprayed water and deployed heavy equipment to fight the fire. The State of Texas determined that these efforts were not adequate, and on January 8, 2007, a company based in Pasadena, Texas, named Oil Mop, was hired to extinguish the fire. The application rate of water by all fire-fighting crews (Figure 9) is from a report prepared by LFCI (2011) as part of the lawsuits filed following the operations. According to LFCI (2011), approximately 21 million gal of water was applied to the fire during operations. Nearby residents reported contaminated water in their wells in mid-January, causing EAA, TCEQ, and other health agencies to mobilize and collect samples. The greatest health issue was the presence of fecal coliform bacteria in runoff water. On February 8, SAWS, fearing the runoff would contaminate drinking water, obtained a restraining order to prevent the State of Texas from dumping water on the debris pile. SAWS operates well fields approximately five miles south and southwest of the debris pile. Both SAWS and TCEQ subsequently worked out an agreement to limit the volume of fire-fighting water and to build a quench pit to reduce runoff. Water was also transported from Medina Lake in March 2007. The fire was finally extinguished on March 28, 2007.

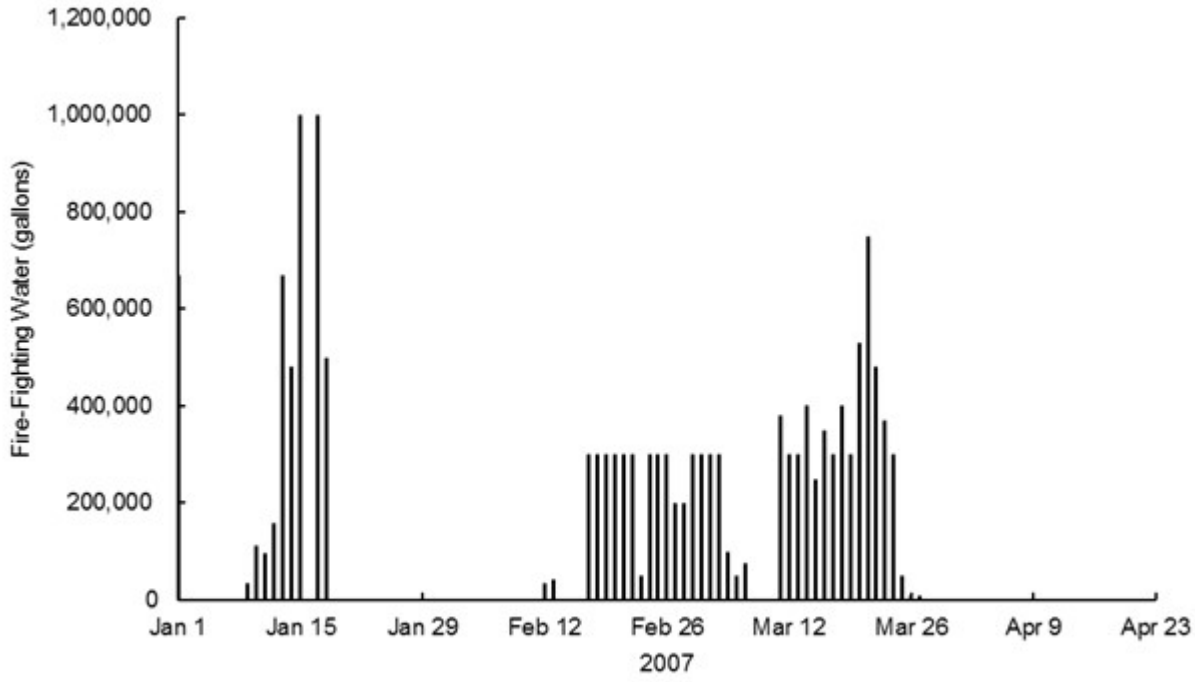

Figure 9. Firefighting Water-Application Rate (from LFCI, 2011)

RESULTS

Direct evidence of pollutants from the debris pile in the aquifer consisted of water samples from nearby wells that smelled like smoke and subsequent detections of PAHs and other organics. Soon after water was applied to the fire, water samples that smelled like smoke were collected from private water wells on Parrigin Road, approximately 1,500 ft west of the site. Consequently, water from several wells remained undrinkable for a period of time thereafter. Water-treatment systems were installed in at least two wells on Parrigin Road.

Water in the quench pit and the water that smelled like smoke had similar fingerprints generated by products of the combustion of woody materials. Of the 41 public and private Edwards Aquifer wells sampled, 28 contained the fingerprint of runoff or quench-pit water. Groundwater with evidence of products of combustion was detected as much as seven miles west, south, and southeast of the debris pile (Figure 10). Most of the heavily impacted private wells were within one mile west of the debris pile (Figure 10). Other impacted wells were generally south

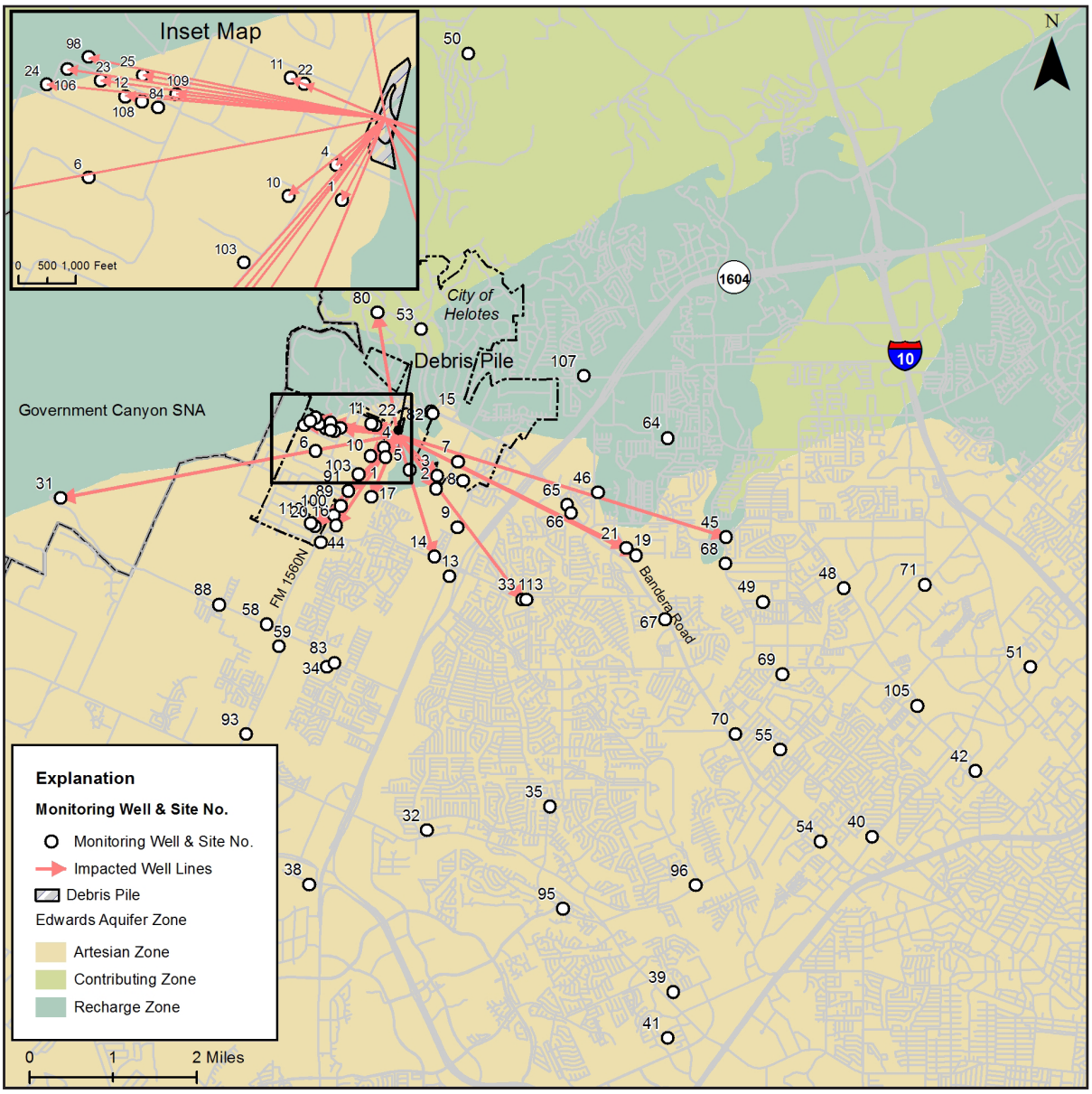

Figure 10. Locations of Impacted Wells

Table 3. Bacteria Counts

Address Site Number	March 6, 2007 Total Coliform	March 6, 2007 E. coli	March 7, 2007 Total Coliform	March 7, 2007 E. coli
10586 Parrigin (11)	114.5	2.0	68.9	3.1
10546 Parrigin (22)	>2419.6	43.5	>2419.6	8.4
11762 FM 1560 (17)	>2419.6	38.8	>2419.6	23.3
10973 Mesquite Flat (25)	>2419.6	72.3	>2419.6	58.3
11515 FM 1560N (91)	>2419.6	52	>2419.6	16.9
7454 FM 1560N (93)	<1	Not found	<1	Not Found
8857 Culebra (95)	<1	Not found	3.1	Not Found
11223 Bandera (65)	<1	Not found	<1	Not Found
8360 Eckhert Rd. (69)	<1	Not found	<1	Not Found
6949 Low Bid Lane (102)	<1	Not found	>2419.6	Not Found
6150 Roft Rd. (94)	<1	Not found	<1	Not Found
9750 Huebner (71)	<1	Not found	>2419.6	Not Found
9085 Bandera (67)	<1	Not found	<1	Not Found
8759 FM 1560N (59)	<1	Not found	<1	Not Found
9700 Rochelle (68)	<1	Not found	>2419.6	Not Found
12861 Galm Rd. (73)	9.8	Not found	5.2	Not Found
11950 Galm Rd.	9.7	Not found	8.6	Not Found
11585 Galm Rd. (58)	17.3	Not found	29.2	Not Found
7507 Eckhert (70)	8.6	Not found	4.1	Not Found
7885 Grissom (96)	6.3	Not found	<1	Not Found
2827 Babcock (101)	1732.9	Not found	>2419.6	Not Found
11049 Bandera (66)	Not Requested	Not Requested	8.6	Not Found

Source: Bexar County Health Department

and east of the debris pile. The most distant impacted well was tentatively identified on the basis of one sample at 2827 Babcock, approximately seven miles southeast of the debris pile. Impacted groundwater was also detected in five of the six samples from a GCSNA well approximately four miles southwest of the debris pile. Impacted groundwater was further detected in private wells three to four miles southeast of the debris pile on Babcock and Prue Roads. Impacted groundwater was tentatively detected on the basis of one sample at a well approximately 1.5 miles north of the debris pile.

Bacteria counts were also evidence of impact, and E. coli bacteria were found in nearby wells and in the quench pit in March 2007 (Table 3). There may be potential sources of the bacteria other than the fire-fighting water because some nearby wells did not have adequate surface seals and domestic animal wastes could have contaminated the wells. However, samples from the two Parrigin wells were slimy with a septic odor, and the owners reported that they had never observed bacterial contamination in the past.

Time-series intensity data were used to create figures showing breakthrough curves for all wells, with the fire-fighting water application rate superimposed on the curves (Figure 11). Location numbers refer to those used in Figure 8. Note that some wells responded quickly to

(continued on p. 22)

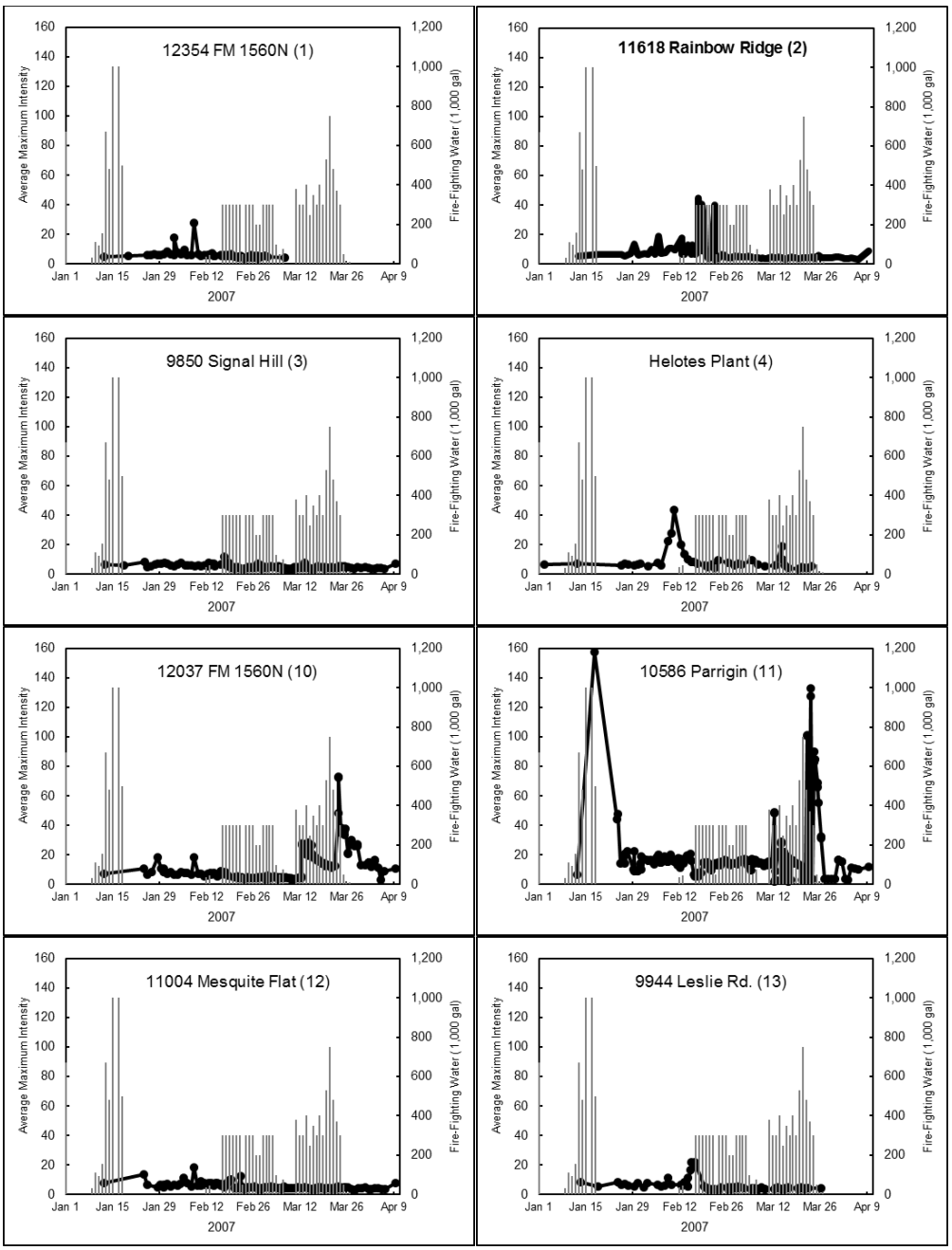

Figure 11. Breakthrough-Curve Charts

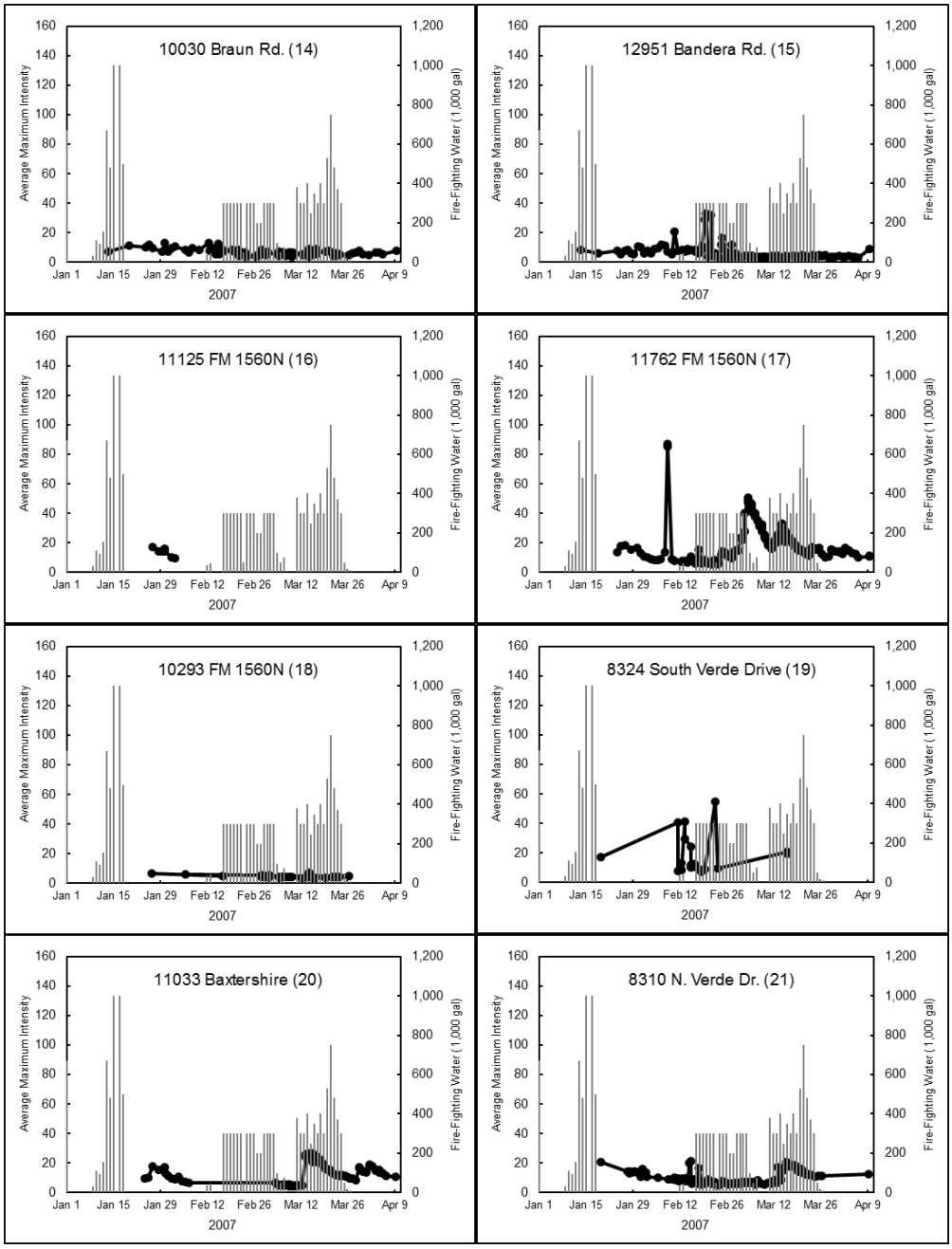

Figure 11. Breakthrough-Curve Charts (cont.)

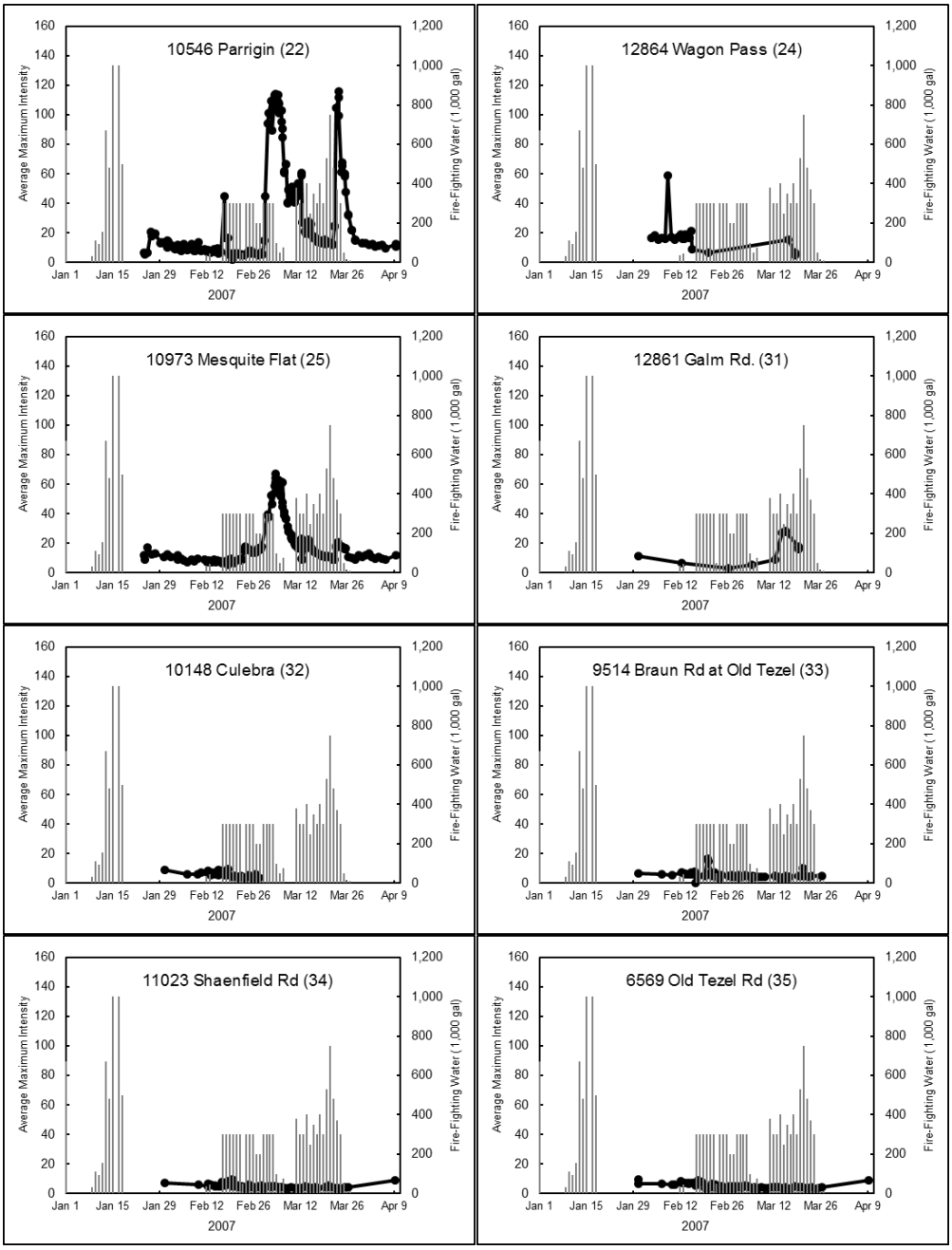

Figure 11. Breakthrough-Curve Charts (cont.)

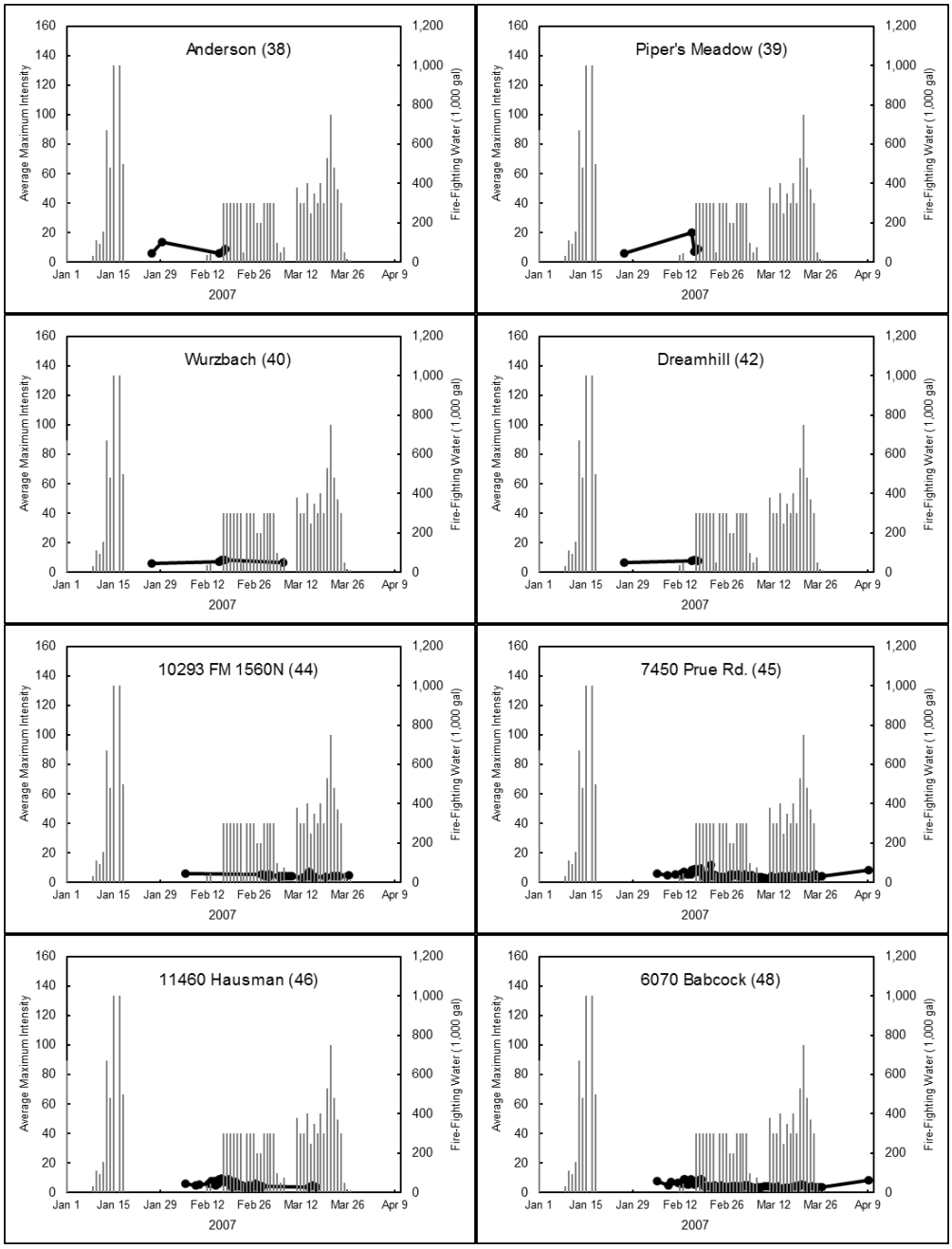

Figure 11. Breakthrough-Curve Charts (cont.)

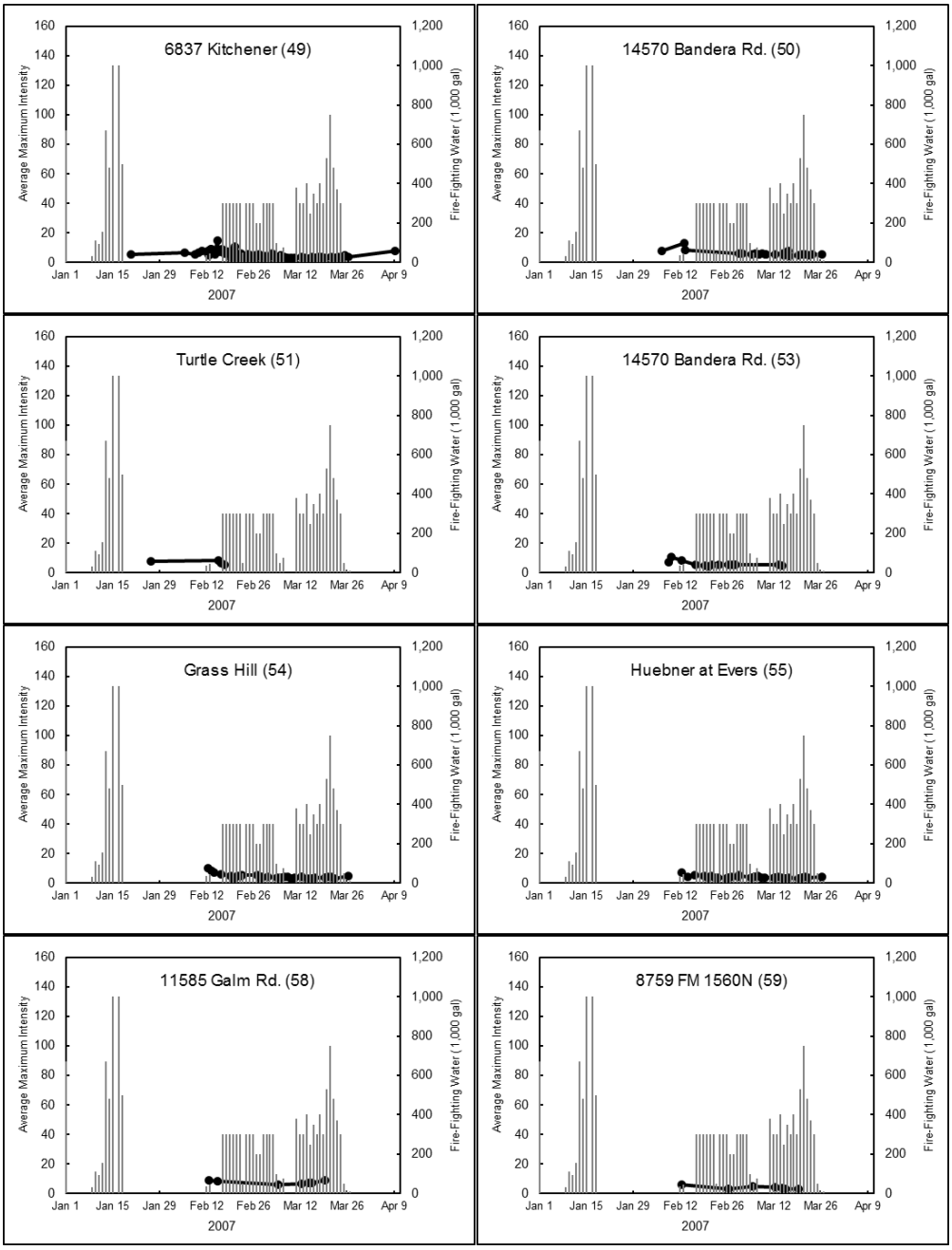

Figure 11. Breakthrough-Curve Charts (cont.)

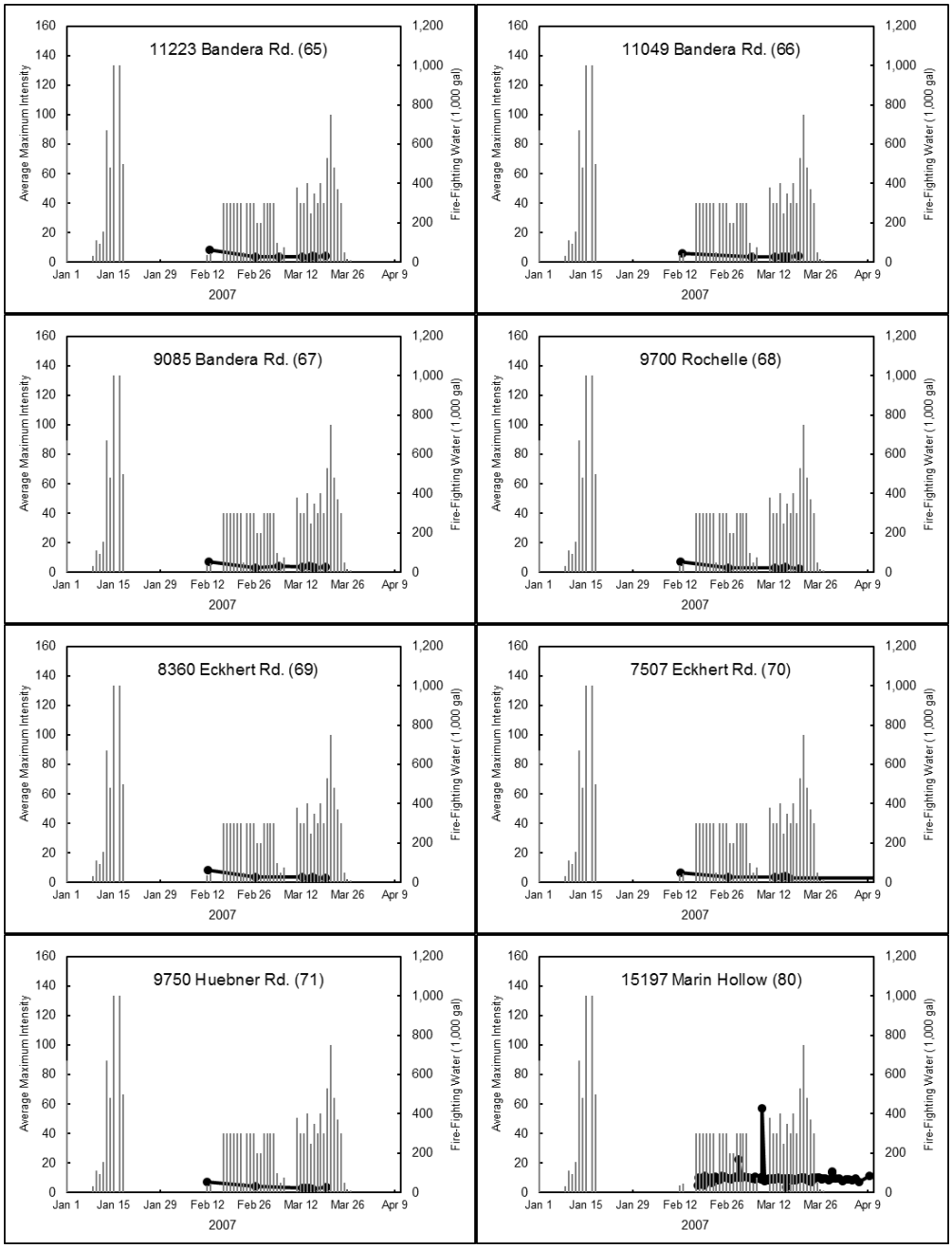

Figure 11. Breakthrough-Curve Charts (cont.)

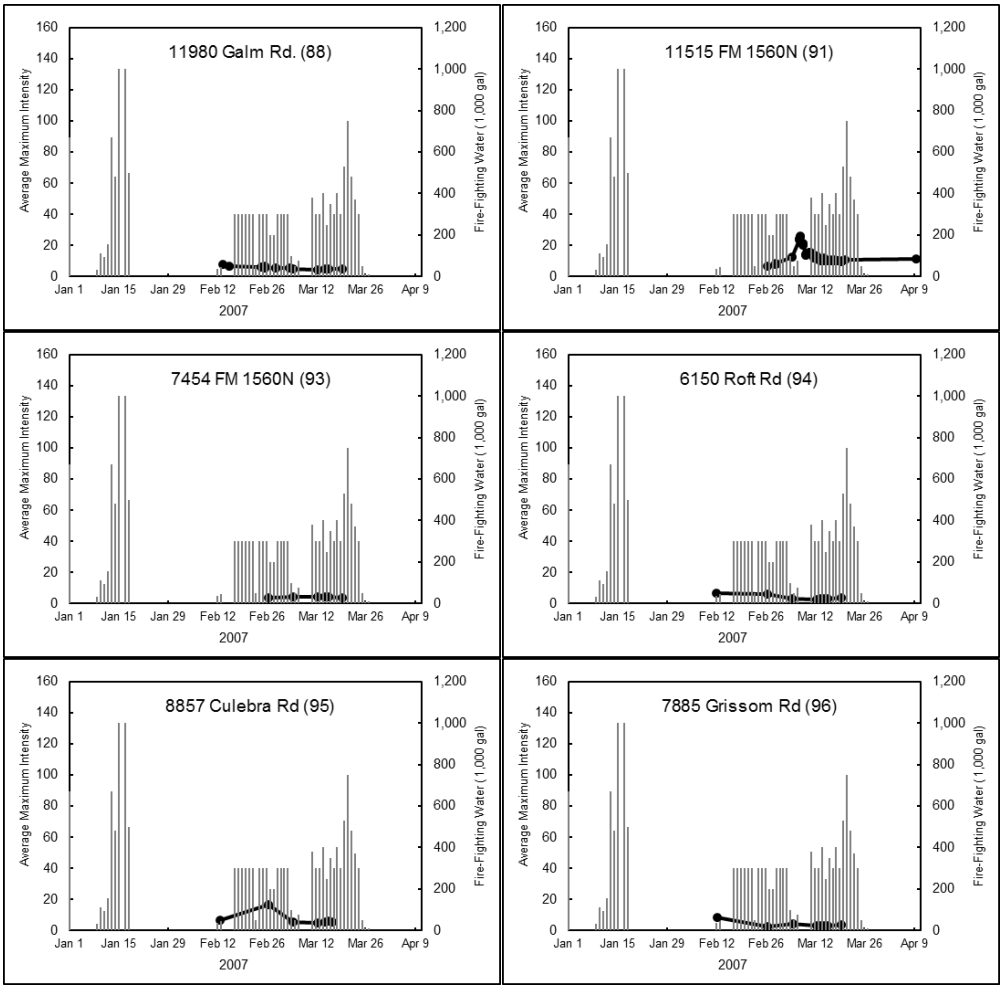

Figure 11. Breakthrough-Curve Charts (cont.)

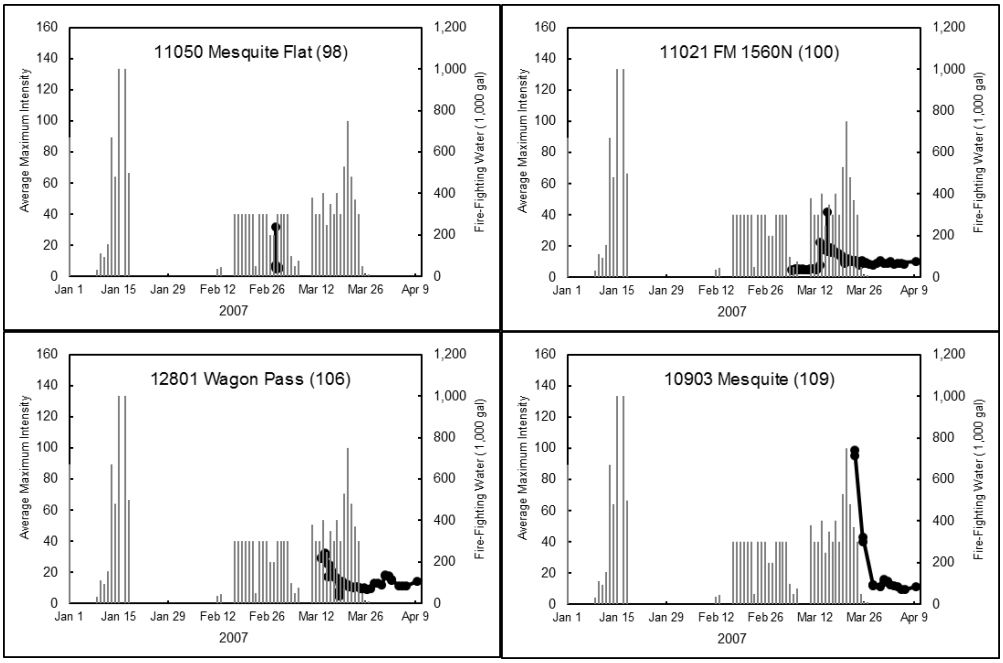

Figure 11. Breakthrough-Curve Charts (cont.)

additions of fire-fighting water, whereas others showed little or no response. Fluorescence levels in the wells closest to the debris pile (11 and 22) increased and decreased with the addition of fire-fighting water. Two of the wells on Mesquite Flat, also west of the debris pile, were highly impacted, whereas others on that street indicated less impact. Several wells on FM 1560N were impacted, although they are more distant from the debris pile than those on Parrigin. Fluorescence levels in other, more distant wells had lower amplitudes, although the impact was identified by the shape and position of the fluorescence spectra. Few of the peaks, however, can be matched consistently with corresponding episodes of fire-fighting water applications. One exception, the breakthrough curve for the well at 11032 Baxtershire, is described later. Despite the large volumes of water, too many other variables (such as specific pathways within the aquifer) affected how wells responded to the runoff. This natural variability reduced the correlation with fire-fighting water applications.

Breakthrough curves for impacted wells close to the debris pile were plotted to show the timing and proximity of contamination episodes in groundwater (Figure 12). The breakthrough curves indicate that fire-fighting water moved past the wells in one or more pulses as the application rate of water on the debris pile varied. Pulses were similarly shaped by steeply rising and declining sides. Contaminated groundwater appears to have moved to all the impacted wells in slugs, with little dissolution or dilution. Although many of the monitoring wells were located west of the debris pile, because contaminated groundwater was reported in that direction initially, impacted wells were actually located

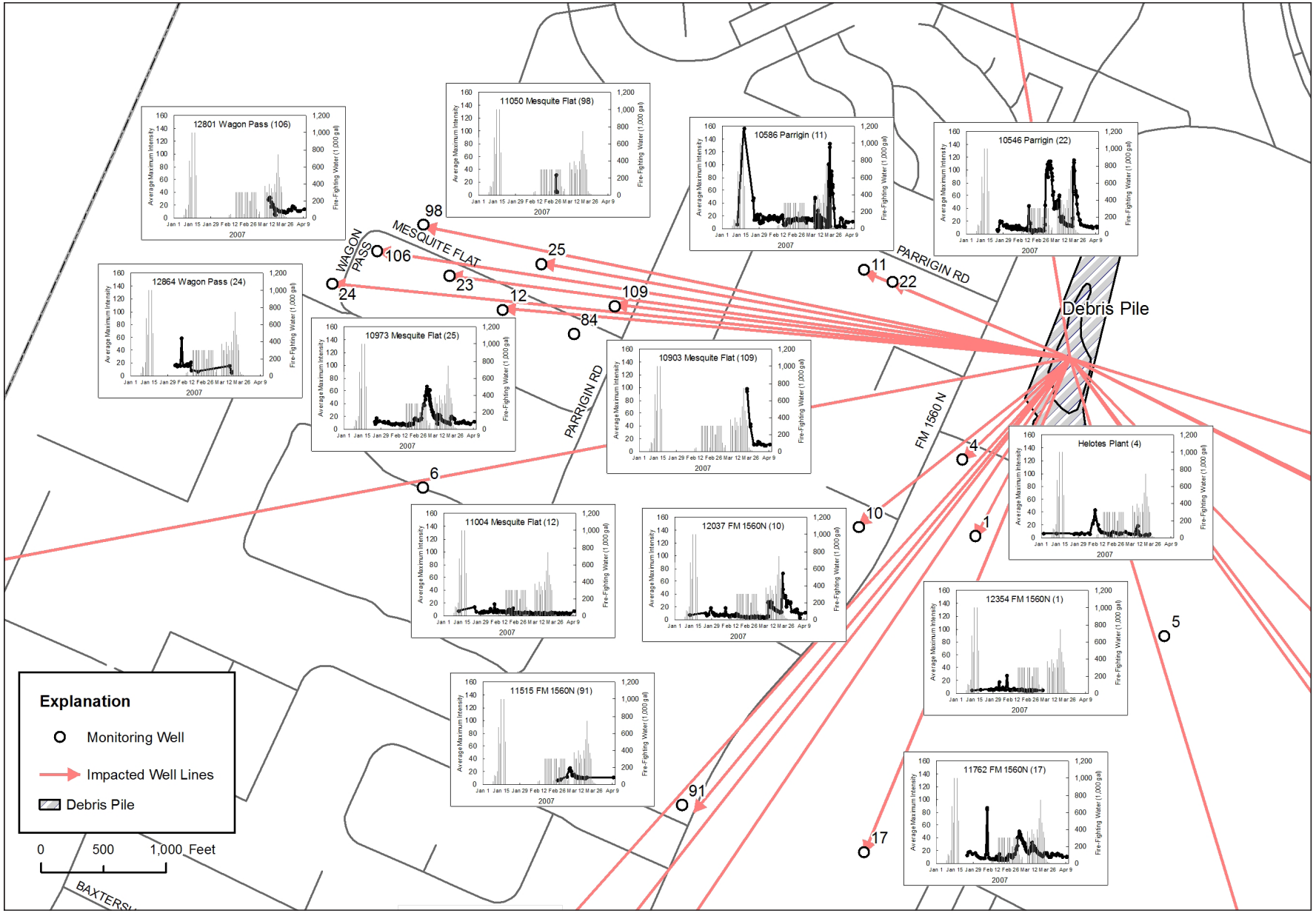

Figure 12. Sampling Results for Wells Close to the Debris Pile

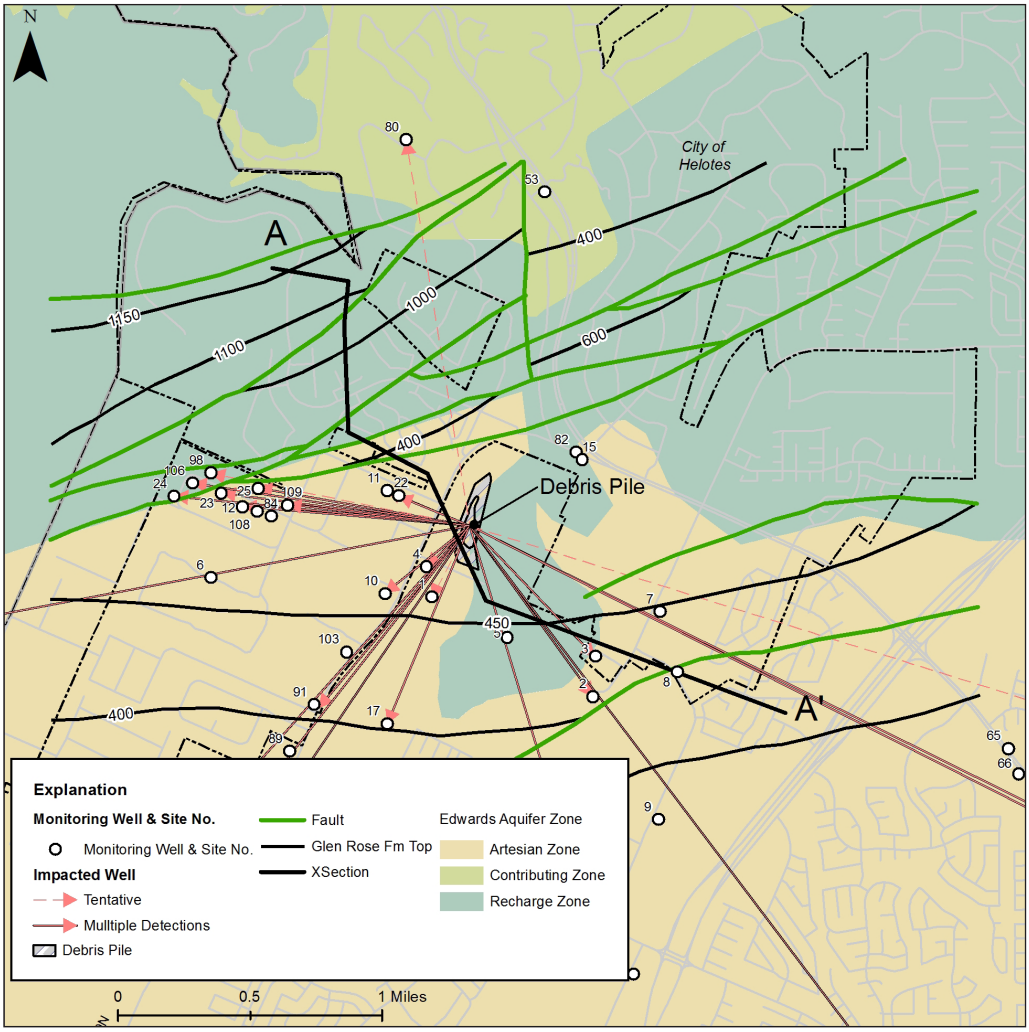

Figure 13. Geologic Structure and Results

radially from the debris pile. Fluorescence in samples from several wells peaked simultaneously on particular days: February 8, March 4, March 14, and March 23. The February 8 peaks were driven by initial applications of water soon after the fire had started. Fluorescence levels declined to background during the fire-fighting hiatus in January and February. Subsequent peaks were caused by large volumes of water applied in late February and March.

The fluorescent analyses did not measure PAHs, although high levels of fluorescence were correlated with the presence of PAHs in quench-pit water and water from nearby wells that smelled like smoke. Although the fluorescent compounds did not necessarily pose a health hazard, they often rendered the water undrinkable (because of visible color and taste effects) and indicated that other potentially harmful pollutants (e.g., PAHs) generated by combustion may be present. Subsequently, samples from nearby wells identified the presence of fluorene, naphthalene, 2,4-dimethylphenol, 2-methylphenol, 4 methylphenol, phenol, acenaphthene, and other PAHs and organic compounds (Table 2). One sample from the 10546 Parrigin well contained 4-methylphenol at 228 µg/L, which exceeded its protective concentration level (PCL) of 120 µg/L established by TCEQ (Table 2). Similar organic compounds were detected in a water sample from the quench pit, indicating that they were associated with the burned materials.

No unusual fluorescence or PAHs were detected in public water supply wells located approximately five miles southwest of the debris pile.

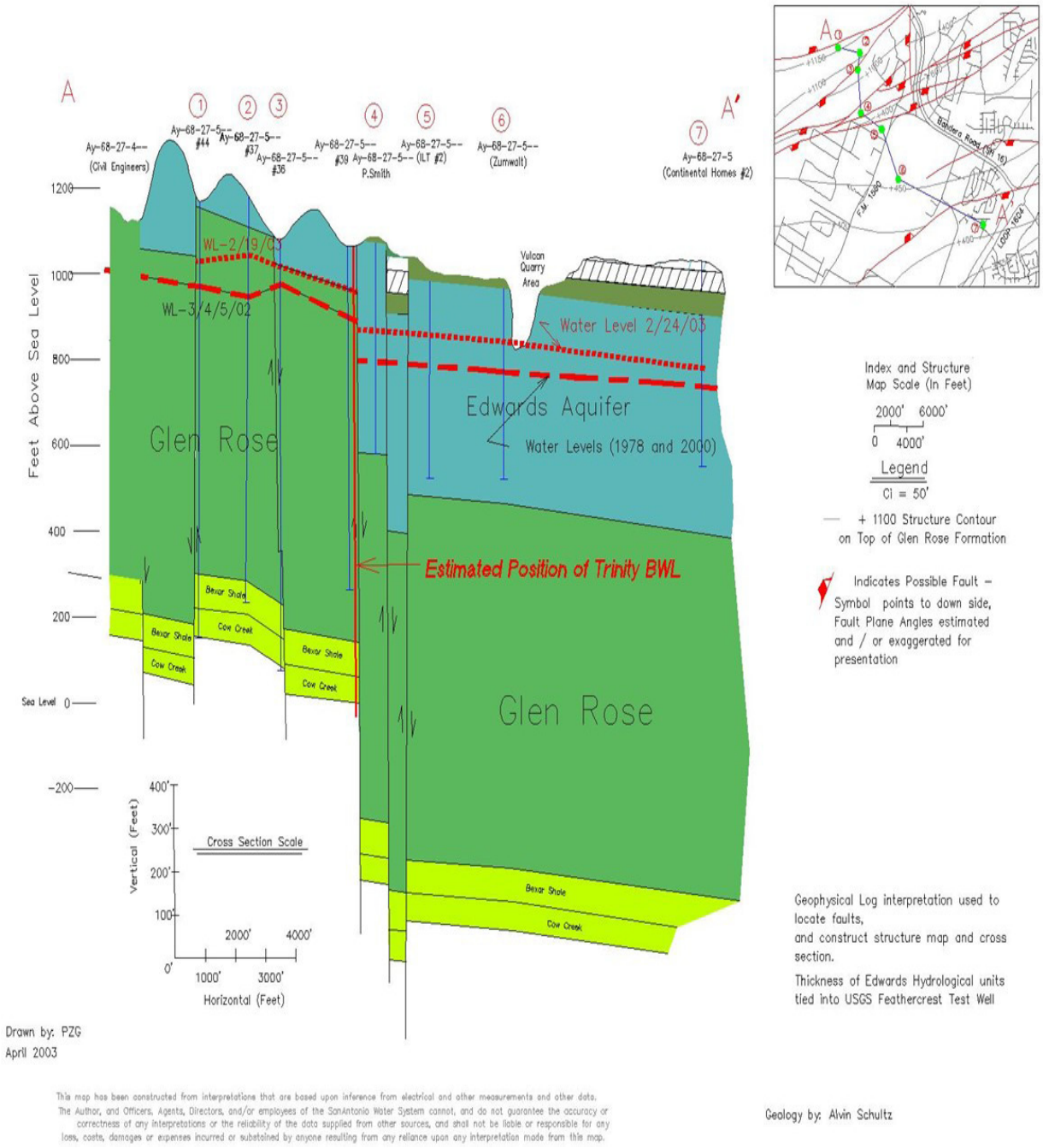

Figure 14. Northwest to Southeast Cross Section A-A′ (Miller et al., 2005)

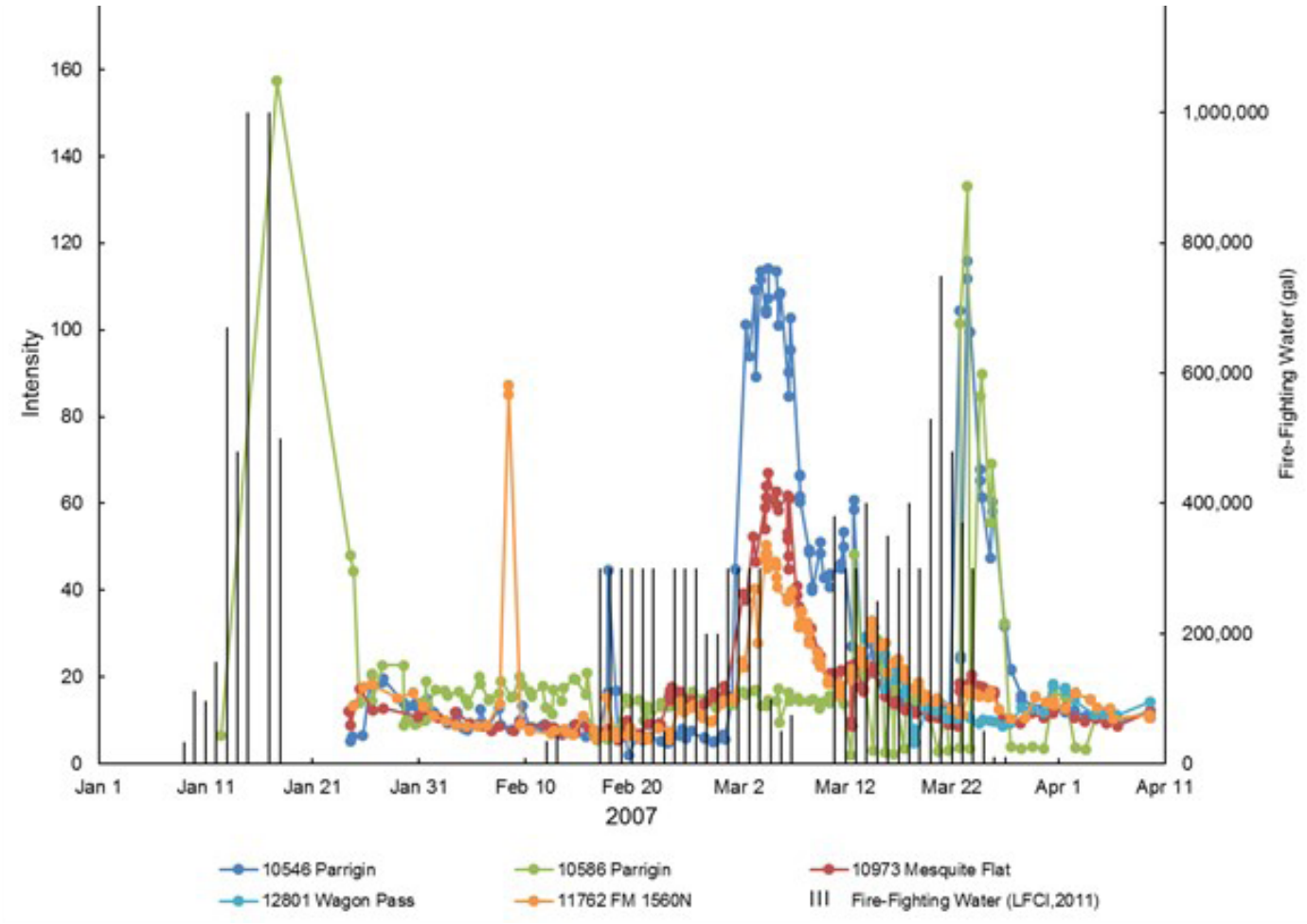

Figure 15. Comparison of Breakthrough Curves

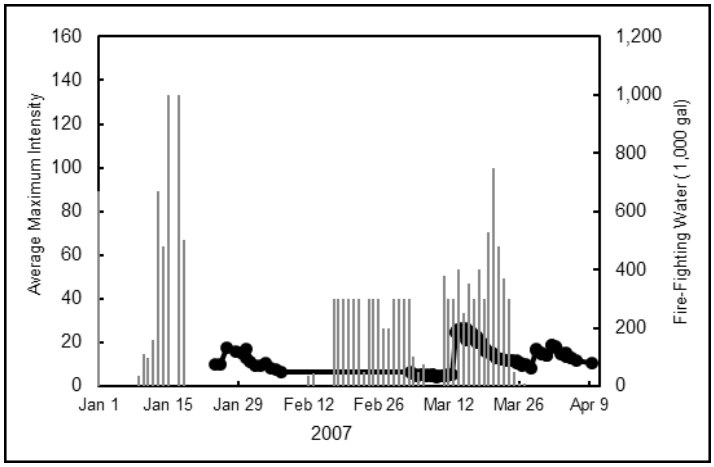

Figure 16. Breakthrough Curve for 11032 Baxtershire

Table 4. Breakthrough Data for 11032 Baxtershire

End of Water Application	Date of Arrival	Days	Apparent Groundwater Velocity (feet per day)
January 13	January 26	13	600
February 18	March 15	25	310
March 11	March 30	19	410

CONCLUSIONS

With approximately 21 million gallons of water (LFCI, 2011) having been trained on the debris pile, the Helotes mulch fire effectively became a tracer test of huge proportions. It provided an opportunity for us to study the karst-related flow characteristics of the Edwards and Trinity aquifers. The fire-fighting water mobilized naturally fluorescing woody material and products of combustion that could be measured in groundwater using conventional fluorescence spectroscopy. Results revealed many of the characteristics of karst in both aquifers.

Figure 13 shows impacted wells close to the debris pile superimposed on the structural geology of the area (Miller et al., 2005). A major fault of the Balcones Fault Zone, with approximately 600 ft of displacement separating the RZ and the AZ, runs through the area from southwest to northeast immediately north of the debris pile. The fault drops strata of the Edwards Aquifer from ground surface to approximately 600 ft below ground (Figure 14). Also shown in Figure 14 is the surface of the Glen Rose Formation, which dips toward the southeast. Despite the large displacement, faults did not prevent movement of contaminated water from the debris pile to wells to the west on Wagon Pass (sites 24 and 106) or Mesquite Flat (site 98). Because contaminated water was identified in only one sample from a Marin Hollow well (site 80) north of the debris pile, detection is considered tentative.

Cross section A-A' (Figure 14) also shows the fault and the displacement of the Edwards Aquifer. Although the fault was drawn by Miller et al. (2005) to behave as a barrier, water analyses indicate that contaminated water could flow across it. As mentioned earlier, the large volume of fire-fighting water applied to the debris pile overcame the natural groundwater gradient and moved in an upgradient direction. The thin veneer of sediment overlying the Edwards Aquifer did not prevent runoff from the debris pile from infiltrating into groundwater.

Groundwater flowpaths were also not significantly affected by geologic structure. The regional strike of the Balcones Fault Zone trends southwest to northeast, roughly paralleling the contact between recharge and drainage zones. Groundwater flowed away from the debris pile both parallel and normal to the fault strike.

Results of the fire-fighting-water tracer test indicate that the Edwards Aquifer and the upper Glen Rose Aquifer are hydraulically connected. Movement of contaminated water into the upper Glen Rose occurred under a low gradient and across a large-displacement fault, suggesting that the Edwards Aquifer and upper Glen Rose Formation act as a single hydrostratigraphic unit in this area.

Although the application of fire-fighting water was too variable to determine conclusively a distinct starting point for groundwater-velocity calculations, groundwater velocities may be estimated. During the hiatus in fire-fighting operations between January 20 and February 12, most groundwater analyses indicate background fluorescence. The resumption of water application on February 17 may be assumed to represent an injection of a tracer (Figure 15). Three wells that responded simultaneously are located on Parrigin, Mesquite Flat, and FM 1560N, which range in distance from approximately 1,500 to 4,300 ft from the debris pile. Fluorescence measurements in these wells peaked on March 4, 15 days after the resumption of fire fighting (Figure 15). Calculated apparent groundwater velocities range from approximately 100 to 300 ft/day, after being rounded to one significant figure. Water moving west from the debris pile toward Parrigin and Mesquite Flat may have been slower because that direction is hydraulically upgradient. After a brief hiatus between March 3 and March 11, fluorescence peaked 10 days later in the Parrigin wells and a different well on Mesquite Flat approximately 3,700 ft from the debris pile. These results indicate a similar range of groundwater velocities. The large volume of fire-fighting water was apparently sufficient to overcome the generally southeasterly regional groundwater gradient.

The breakthrough curve for the well at 11032 Baxtershire (Figure 16), which is 7,828 ft southwest of the debris pile, can also be used to estimate groundwater velocities

because it shows three peaks that correspond roughly to separate episodes of fire-fighting-water applications. Table 4 lists breakthrough data for the well and shows the number of days estimated between each episode of fire-fighting-water application, and the arrival of fluorescent material ranged from 13 to 25 days. Calculated apparent groundwater velocities range from 310 to 600 ft/day. Considering the potential variability of the groundwater flowpath from the debris pile to the well, these results are relatively consistent. The principal uncertain variable would be the height of the groundwater mound near the debris pile produced by infiltrating fire-fighting water. As it rises and falls, groundwater velocity would increase or decrease, respectively.

Shapes of peaks in the breakthrough curves also suggest relatively fast-moving groundwater. Peaks rose steeply and then quickly declined, indicating that impacted groundwater moved past the well as a discrete slug of water with little dilution or dispersion. Fluorescence returned to background conditions soon after the slug of impacted groundwater passed the well—behavior characteristic of karst groundwater flow. In a porous-media aquifer with slow-moving groundwater, peaks would have lower amplitudes as a result of dilution and dispersion.

Impacted groundwater followed discrete flowpaths, which is also characteristic of karst conditions. Although impacted groundwater appeared to flow radially away from the debris pile, it probably followed discrete flowpaths in the aquifer in which wells were located. Fire-fighting water was applied in different areas as the operations progressed, causing runoff to flow to different wells. In contrast, in a non-karstic (less heterogeneous) aquifer, runoff water would flow radially from the debris pile and impact all wells somewhat similarly. Wells were impacted differently, according to the small changes in the location of application of fire-fighting water, which is characteristic of the anisotropic nature of this karst aquifer. Even in the highly impacted area west of the debris pile, not all wells were impacted similarly (Figure 12). For example, only one of the Parrigin wells was impacted by a surge on March 4. Perhaps groundwater flowpaths were controlled by water levels, and conditions changed sufficiently for the impacted water to miss one of the wells. Some distant wells, such as 11762 FM and 1560 N, were impacted more than wells closer to the debris pile, which is also evidence of discrete flowpaths.

The vulnerability of the Edwards Aquifer to surface water and runoff, even in areas depicted as outside of the recharge zone, was the principal finding from this event. Fire-fighting water infiltrated with apparently little or no filtration, and potential pollutants were not attenuated except by dilution. Results indicate that contaminants in surface water may be carried quickly into the groundwater system. Bacteria were detected in analyses by other agencies in nearby wells, requiring treatment before residents could use the water safely. Although PAHs associated with the runoff were detected in some wells, all but one of the concentrations were below drinking-water standards. Although not life threatening, fluorescent materials served as a surrogate for more dangerous pollutants, such as fecal coliform bacteria and PAHs. Fluorescent-material tracer results indicate the unpredictability of potential pollutants as they migrate away from the debris pile.

REFERENCES

Landfill Fire Control Inc., 2011, Helotes Debris Pile Fire, Helotes, Texas, Expert Review of Incident, prepared for Texas Commission on Environmental Quality, February 14.

Miller, E., Hammond, W., Pearce, P., and Schultz, A., 2005, Edwards Aquifer Recharge Zone—Redefined: Bexar County, Texas, PowerPoint presentation.

APPENDIX A

Helotes Fire Timeline

Source: *San Antonio Express-News* March 14, 2007

March 13	SAWS says fecal matter found in five private wells in the area surrounding fire is coming from the mulch fire. Estimates show it could take another month to put out the fire. TCEQ says it will continue to use water to cut down on the amount of smoke coming off of the pile.
March 8	TCEQ agrees to use crane to move burning material off the compost pile for better use of water available to firefighters.
March 7	Five wells test positive for contamination. SAWS states deal with state requires protection of Bexar County's water source.
March 6	State Representative David McQuade Liebowitz files bill to put tougher limits on the size of recycling facilities such as compost piles.
March 5	Deadline to put out fire passes. Fire is 90% contained.
March 3-4	Firefighters discover deep 'hot spots' and learn fire has spread underground.
February 26	TCEQ okays water in Helotes area. Says drinking water not contaminated. Fire about 75% out.
February 23	Third well tests positive for contamination, but cleared by TCEQ the same day. Fire about 60% out.
February 19	Helotes has town hall meeting. Residents learn fire is expected to be out in early March.
February 16	29 water wells tested for contamination. All turn up negative. Fire crews begin working to put out the fire seven days a week.
February 15	Crews stop using water to fight fire after contamination concerns arise. SAWS tests used water for contamination.
February 14	Crews use water sprinklers, heavy equipment, and water to fight fire. Execute plan to tear down the pile of compost. They move debris to clay-lined pits.
February 12	Crews use less water to fight fire, per agreement between SAWS and TCEQ. Plan to last only two days.
February 10	TCEQ and SAWS announce new plan to fight fire. Plan calls for limited water use after concerns over water contamination.
February 9	TCEQ and SAWS reach agreement for firefighting plan. They agree to test clay-lined pits to see whether they'll prevent contaminated water runoff under control so as not to hurt the Edwards Aquifer.
February 8	SAWS gets restraining order to prevent the state from dumping water on compost fire. Agency afraid it could contaminate area water supply. San Antonio City Council agrees with SAWS decision.

February 6	SAWS refuses to allow state to use its water to fight fire. SAWS concerned over environmental quality. State considers other water sources.
February 5	State leaders meet with Helotes residents in weekly town hall meeting. Deadline for putting out changed from February 21 to end of the month. TCEQ has new plan explained for extinguishing fire. Plan calls for tractor trailers to pull pile apart. Clay pits would hold water and debris runoff. This is plan three.
February 2	Bexar County announces plan to continue fighting fire on Tuesday, February 6, after concerns about water contamination.
February 1	Helotes City Council holds emergency meeting. Mayor extends disaster declaration.
January 29	People express concerns at town hall meeting after fire burns for a month. Fire expected to be out in February. Zumwalt increases reward to $25,000 for information leading to the arrest of person who started fire.
January 26	TCEQ takes over fighting fire from Zumwalt. State sends letter to company alleging violations of Texas law. End of February set as deadline for extinguishing fire.
January 25	Bexar County gives fire evacuees one week notice before money paying for hotel stays will end.
January 23	Bexar County releases costs of hotel stays for evacuees. County estimates it costs $7,000 a night to house 62 families. Deadline to put fire out expires.
January 22	Firefighting efforts stop after two wells are contaminated by runoff from compost fire. SAWS, TCEQ, and emergency personnel meet to figure out a plan to fight fire and avoid contamination.
January 19	Water samples tested for contamination after two private-well owners complain about smoky-smelling water.
January 18	Crews begin using “smoke suppression mode” to fight fire. It uses less water and doesn’t stir up large amounts of ash or smoke. Icy weather prevents aggressive firefighting; fire makes up some ground.
January 13	TCEQ says fire should be out in 13 days. Crews use high-powered hoses on burning pile of mulch.
January 12	Crews plan for aggressive approach to fighting fire. Start each morning at seven. Intense smoke and ash cause concern. Bexar County makes arrangements for people with medical concerns to stay in hotels. Red Cross sets up shelter at local school.
January 11	NISD says O’Connor High School, Krueger, and Helotes Elementary Schools will close Tuesday, January 16, as a precaution after aggressive firefighting planned for weekend.
January 10	Crews begin using tension pond to fight fire. Costs for putting fire out estimated to be $1.75 million. Owner of Zumwalt files a lawsuit against the state, arguing the company should not have to cover the costs of fighting the fire because arson is suspected.
January 9	Oil Mop begins work to help put out fire. Company says it can have it out by January 24th. NISD begins making plans in case fire puts students at risk.

January 8	State hires Pasadena, Texas, based company, Oil Mop, to put fire out. Company says it can put out fire in half the time Zumwalt said it would take.
January 7	Protest organized by people who live in Helotes. They say the situation is not being taken care of fast enough.
January 6	Bexar County issues requirements for potential evacuees. County will pick up the cost of hotel stays for people who meet the health-related guidelines.
January 5	NISD offers temporary transfers to students attending schools near the compost fire. News 4 learns Zumwalt already under investigation by TCEQ for dust coming off the compost fire, but it pre-dates the start of the fire.
January 4	Zumwalt tells News 4 its plan to put out the fire does not use water, but it would require tearing the pile apart with bulldozers and extinguishing it. Company estimates it will take 45 days to put it out.
January 3	Mayor of Helotes issues disaster declaration. News 4 learns fire could burn for up to a year.
December 29	Firefighters say the fire is “under control.”
December 28	Health advisory issued for people living near fire. Red Cross opens shelters for people concerned for their health. Voluntary evacuation issued for several neighborhoods.
December 26	Zumwalt announces it believes the fire was intentionally set after finding a chain cut on a gate.
December 25	An 80-ft-tall pile of compost catches fire overnight at H. L. Zumwalt Recycling Center in northwest Bexar County.

APPENDIX B

Fluorescence Analyses

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
1	12354 FM 1560N	01/12/2007	1425	1.28	377	320	7.51	N
1	12354 FM 1560N	01/19/2007	1530	2.04	350	310	8.93	N
1	12354 FM 1560N	01/25/2007	1210	2.44	418	320	6.83	N
1	12354 FM 1560N	01/26/2007	1350	2.18	398	320	6.36	N
1	12354 FM 1560N	01/27/2007	1504	2.07	458	310	9.09	N
1	12354 FM 1560N	01/28/2007	1020	2.17	410.5	320	6.49	N
1	12354 FM 1560N	01/29/2007	1025	2.32	385	340	8.68	N
1	12354 FM 1560N	01/30/2007	1010	2.67	373	320	7.65	N
1	12354 FM 1560N	01/31/2007	1020	3.16	372.5	310	9.4	N
1	12354 FM 1560N	02/01/2007	0950	2.61	405	320	8.16	N
1	12354 FM 1560N	02/02/2007	1120	7.06	399.5	330	19.17	Y
1	12354 FM 1560N	02/02/2007	1120	2.66	406.5	330	6.26	N
1	12354 FM 1560N	02/03/2007	1025	2.55	373	320	8.9	N
1	12354 FM 1560N	02/04/2007	0940	2.5	394	310	8.01	N
1	12354 FM 1560N	02/05/2007	1115	3.06	394	310	10.28	N
1	12354 FM 1560N	02/06/2007	1045	1.84	391	320	5.56	N
1	12354 FM 1560N	02/07/2007	1430	2.17	383	320	7.85	N
1	12354 FM 1560N	02/08/2007	1100	8.17	436.5	350	29.04	N
1	12354 FM 1560N	02/09/2007	1410	2.71	412	320	7.7	N
1	12354 FM 1560N	02/10/2007	1110	1.87	408.5	340	6.03	N
1	12354 FM 1560N	02/11/2007	1050	2	383	320	5.78	N
1	12354 FM 1560N	02/12/2007	1013	1.44	382.5	320	6.18	N
1	12354 FM 1560N	02/12/2007	1652	1.86	413.5	320	6.56	N
1	12354 FM 1560N	02/13/2007	0940	1.59	407	330	6.34	N
1	12354 FM 1560N	02/13/2007	1650	2.3	384.5	320	8.43	N
1	12354 FM 1560N	02/14/2007	1015	1.38	384.5	340	4.66	N
1	12354 FM 1560N	02/14/2007	1713	2.28	389.5	320	6.03	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
1	12354 FM 1560N	02/16/2007	1055	1.65	410.5	320	5.27	N
1	12354 FM 1560N	02/16/2007	1430	1.75	412	330	5.36	N
1	12354 FM 1560N	02/17/2007	1210	1.94	410.5	320	5.33	N
1	12354 FM 1560N	02/17/2007	1358	1.9	422.5	330	5.8	N
1	12354 FM 1560N	02/18/2007	0936	1.35	409	340	5.1	N
1	12354 FM 1560N	02/18/2007	1401	1.51	430	330	5.17	N
1	12354 FM 1560N	02/19/2007	1000	2.17	396.5	310	8.22	N
1	12354 FM 1560N	02/19/2007	1500	2.16	382	340	6.15	N
1	12354 FM 1560N	02/20/2007	1008	2.18	406.5	330	5.49	N
1	12354 FM 1560N	02/21/2007	1035	2.02	406.5	330	4.93	N
1	12354 FM 1560N	02/21/2007	1435	1.91	389.5	330	4.94	N
1	12354 FM 1560N	02/22/2007	0915	2.32	394	330	6.08	N
1	12354 FM 1560N	02/22/2007	1500	2.32	407	330	5.67	N
1	12354 FM 1560N	02/23/2007	1105	1.36	422.5	330	4.37	N
1	12354 FM 1560N	02/23/2007	1435	1.44	427.5	330	4.08	N
1	12354 FM 1560N	02/24/2007	0910	2.17	411.5	330	5.79	N
1	12354 FM 1560N	02/24/2007	1630	2.12	407	330	5.08	N
1	12354 FM 1560N	02/25/2007	0910	2.93	415	330	6.14	N
1	12354 FM 1560N	02/25/2007	1309	3.02	406.5	330	6.94	N
1	12354 FM 1560N	02/25/2007	1407	1.91	390	330	4.78	N
1	12354 FM 1560N	02/26/2007	1003	1.93	428	330	4.78	N
1	12354 FM 1560N	02/26/2007	1510	2.28	405.5	330	5.91	N
1	12354 FM 1560N	02/27/2007	1007	1.44	422.5	330	4.49	N
1	12354 FM 1560N	02/27/2007	1350	2.2	389.5	330	5.98	N
1	12354 FM 1560N	02/28/2007	0946	2.16	404.5	330	5.34	N
1	12354 FM 1560N	02/28/2007	1401	2.19	415.5	330	5.47	N
1	12354 FM 1560N	03/01/2007	1041	2.37	408	330	5.54	N
1	12354 FM 1560N	03/01/2007	1404	2.48	417.5	330	5.52	N
1	12354 FM 1560N	03/02/2007	1100	2.2	370.5	330	5.93	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
1	12354 FM 1560N	03/07/2007	1155	2.01	424.5	330	4.85	N
2	11618 Rainbow Ridge	01/12/2007	1605	1.19	369	300	7.71	N
2	11618 Rainbow Ridge	01/18/2007	1155	2.39	382	320	7.13	N
2	11618 Rainbow Ridge	01/25/2007	1040	1.89	405	320	7.9	N
2	11618 Rainbow Ridge	01/26/2007	1340	1.65	381.5	320	5.54	N
2	11618 Rainbow Ridge	01/28/2007	1115	1.54	381.5	310	4.99	N
2	11618 Rainbow Ridge	01/29/2007	1100	3.52	404.5	310	15.57	Y
2	11618 Rainbow Ridge	01/30/2007	1054	2.59	425	320	6.78	N
2	11618 Rainbow Ridge	01/30/2007	1340	1.51	405.5	320	5.32	N
2	11618 Rainbow Ridge	01/31/2007	1100	2.2	390	310	7.75	N
2	11618 Rainbow Ridge	02/01/2007	1110	1.44	417.5	330	5.22	N
2	11618 Rainbow Ridge	02/02/2007	1300	1.23	376	320	4.79	N
2	11618 Rainbow Ridge	02/03/2007	1120	2.61	412	310	10.73	Y
2	11618 Rainbow Ridge	02/04/2007	1340	1.73	367.5	320	6.66	N
2	11618 Rainbow Ridge	02/05/2007	1520	4.5	400.5	310	20.59	Y
2	11618 Rainbow Ridge	02/06/2007	1155	1.05	422.5	330	4.26	N
2	11618 Rainbow Ridge	02/07/2007	1550	2.4	376	320	8.29	N
2	11618 Rainbow Ridge	02/08/2007	1552	3.3	433.5	350	12.62	Y
2	11618 Rainbow Ridge	02/09/2007	1600	3.66	404.5	320	11.29	Y
2	11618 Rainbow Ridge	02/10/2007	1200	2.49	404.5	310	10.21	Y
2	11618 Rainbow Ridge	02/11/2007	1110	3.55	409.5	310	14.48	Y
2	11618 Rainbow Ridge	02/12/2007	1149	4	413	310	19.74	Y
2	11618 Rainbow Ridge	02/12/2007	1730	2.31	418.5	310	7.36	N
2	11618 Rainbow Ridge	02/13/2007	1050	0.81	360	320	4.71	N
2	11618 Rainbow Ridge	02/13/2007	1050	1.95	373	310	7.63	N
2	11618 Rainbow Ridge	02/14/2007	1048	4.16	417.5	310	14.79	Y
2	11618 Rainbow Ridge	02/15/2007	1142	2.3	382.5	320	7.36	N
2	11618 Rainbow Ridge	02/15/2007	1540	4.11	400.5	310	15.13	Y
2	11618 Rainbow Ridge	02/16/2007	1310	2.18	381.5	340	4.26	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
2	11618 Rainbow Ridge	02/16/2007	1530	2.29	410.5	320	4.24	N
2	11618 Rainbow Ridge	02/17/2007	1500	9.43	405.5	310	41.49	Y
2	11618 Rainbow Ridge	02/17/2007	1500	3.02	411.5	310	41.65	Y
2	11618 Rainbow Ridge	02/18/2007	1110	0.39	419.5	310	17.96	Y
2	11618 Rainbow Ridge	02/18/2007	1535	7.72	400.5	310	11.73	Y
2	11618 Rainbow Ridge	02/19/2007	0945	5.55	407.5	310	27.86	Y
2	11618 Rainbow Ridge	02/19/2007	1220	1.76	372	310	9.44	N
2	11618 Rainbow Ridge	02/20/2007	0830	2.02	407	330	4.86	N
2	11618 Rainbow Ridge	02/20/2007	1250	1.45	393.5	330	4.32	N
2	11618 Rainbow Ridge	02/21/2007	0855	1.96	404.5	330	5.21	N
2	11618 Rainbow Ridge	02/22/2007	0840	9.45	400.5	300	42.32	Y
2	11618 Rainbow Ridge	02/22/2007	0840	9.47	403.5	300	42.08	Y
2	11618 Rainbow Ridge	02/22/2007	0840	8.96	405.5	300	38.25	Y
2	11618 Rainbow Ridge	02/22/2007	1255	1.86	428	330	5.22	N
2	11618 Rainbow Ridge	02/22/2007	1300	1.43	415	330	3.98	N
2	11618 Rainbow Ridge	02/23/2007	0840	1.47	407.5	330	3.84	N
2	11618 Rainbow Ridge	02/23/2007	1547	1.6	423	330	4.86	N
2	11618 Rainbow Ridge	02/24/2007	1005	2.98	405	300	6.73	N
2	11618 Rainbow Ridge	02/24/2007	1448	2.56	405	300	6.77	N
2	11618 Rainbow Ridge	02/25/2007	1023	2.97	395.5	330	6.19	N
2	11618 Rainbow Ridge	02/25/2007	1435	2.38	385	330	5.38	N
2	11618 Rainbow Ridge	02/26/2007	1257	1.33	423	330	4.36	N
2	11618 Rainbow Ridge	02/26/2007	1620	1.51	406	330	4.41	N
2	11618 Rainbow Ridge	02/27/2007	1144	1.85	430	330	5.05	N
2	11618 Rainbow Ridge	02/27/2007	1618	1.68	405	360	4.54	N
2	11618 Rainbow Ridge	02/28/2007	1035	2.13	398.5	330	5.52	N
2	11618 Rainbow Ridge	02/28/2007	1509	2.44	407.5	300	5.77	N
2	11618 Rainbow Ridge	03/01/2007	1054	2.18	388	330	5.36	N
2	11618 Rainbow Ridge	03/01/2007	1552	2.23	395.5	330	6.31	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
2	11618 Rainbow Ridge	03/02/2007	1120	2.21	410.5	330	5.29	N
2	11618 Rainbow Ridge	03/02/2007	1445	2.17	389.5	330	5.48	N
2	11618 Rainbow Ridge	03/03/2007	0953	2.5	418	330	5.48	N
2	11618 Rainbow Ridge	03/03/2007	1345	2.51	404.5	330	5.2	N
2	11618 Rainbow Ridge	03/04/2007	0945	2.82	407	330	5.93	N
2	11618 Rainbow Ridge	03/04/2007	1718	2.45	423	330	6.33	N
2	11618 Rainbow Ridge	03/05/2007	1205	1.98	423	330	5.92	N
2	11618 Rainbow Ridge	03/05/2007	1538	1.8	422.5	330	4.4	N
2	11618 Rainbow Ridge	03/06/2007	1135	1.77	399	330	4.63	N
2	11618 Rainbow Ridge	03/06/2007	1500	1.7	443	360	5.29	N
2	11618 Rainbow Ridge	03/07/2007	1336	2.02	425.5	360	4.68	N
2	11618 Rainbow Ridge	03/07/2007	1536	1.98	424	330	4.96	N
2	11618 Rainbow Ridge	03/08/2007	1131	1.45	408	330	4.18	N
2	11618 Rainbow Ridge	03/08/2007	1600	1.69	408	360	5.46	N
2	11618 Rainbow Ridge	03/09/2007	1205	1.5	434	330	4.03	N
2	11618 Rainbow Ridge	03/10/2007	1055	1.45	411.5	330	4.15	N
2	11618 Rainbow Ridge	03/10/2007	1325	1.76	393.5	330	5.02	N
2	11618 Rainbow Ridge	03/11/2007	1225	2.45	407.5	330	5.74	N
2	11618 Rainbow Ridge	03/11/2007	1505	2.41	406.5	330	5.56	N
2	11618 Rainbow Ridge	03/12/2007	1110	1.78	371	330	4.67	N
2	11618 Rainbow Ridge	03/12/2007	1500	1.83	408	360	4.72	N
2	11618 Rainbow Ridge	03/13/2007	1339	2.52	427.5	330	5.47	N
2	11618 Rainbow Ridge	03/13/2007	1500	2.41	408	330	5.58	N
2	11618 Rainbow Ridge	03/14/2007	1310	2.13	430	330	4.35	N
2	11618 Rainbow Ridge	03/14/2007	1517	2	370.5	330	4.83	N
2	11618 Rainbow Ridge	03/15/2007	1318	1.37	433.5	330	3.42	N
2	11618 Rainbow Ridge	03/15/2007	1610	1.66	404.5	330	4.84	N
2	11618 Rainbow Ridge	03/16/2007	1055	2.1	423	330	4.57	N
2	11618 Rainbow Ridge	03/16/2007	1430	2.28	405.5	360	5.01	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
2	11618 Rainbow Ridge	03/17/2007	0952	2.42	424	330	5.22	N
2	11618 Rainbow Ridge	03/17/2007	1434	2.24	408.5	330	4.8	N
2	11618 Rainbow Ridge	03/18/2007	1040	2.3	404	330	5.02	N
2	11618 Rainbow Ridge	03/18/2007	1549	2.32	423	330	5.13	N
2	11618 Rainbow Ridge	03/19/2007	1115	1.53	434.5	330	3.75	N
2	11618 Rainbow Ridge	03/19/2007	1510	1.6	393.5	330	4.81	N
2	11618 Rainbow Ridge	03/20/2007	1235	2.19	422	360	4.78	N
2	11618 Rainbow Ridge	03/20/2007	1558	2.46	388	330	5.1	N
2	11618 Rainbow Ridge	03/21/2007	1030	2.28	360.5	300	4.68	N
2	11618 Rainbow Ridge	03/21/2007	1500	2.33	407.5	360	4.44	N
2	11618 Rainbow Ridge	03/22/2007	1035	2	408	360	4.63	N
2	11618 Rainbow Ridge	03/22/2007	1605	1.91	405.5	360	5.1	N
2	11618 Rainbow Ridge	03/23/2007	1216	2.51	399	330	5.83	N
2	11618 Rainbow Ridge	03/23/2007	1422	2.12	410.5	330	4.69	N
2	11618 Rainbow Ridge	03/24/2007	0840	2.01	422.5	330	4.82	N
2	11618 Rainbow Ridge	03/24/2007	1235	2.33	371.5	330	6.11	N
2	11618 Rainbow Ridge	03/25/2007	1108	2.56	388	330	5.46	N
2	11618 Rainbow Ridge	03/25/2007	1345	3.03	388	330	6.6	N
2	11618 Rainbow Ridge	03/26/2007	1055	2.32	415.5	330	5.	N
2	11618 Rainbow Ridge	03/27/2007	1028	2.36	404	330	4.58	N
2	11618 Rainbow Ridge	03/28/2007	0739	1.6	404	330	4.36	N
2	11618 Rainbow Ridge	03/29/2007	0749	2.35	393.5	330	5.12	N
2	11618 Rainbow Ridge	03/30/2007	0720	2.61	370.5	330	6.11	N
2	11618 Rainbow Ridge	03/31/2007	1440	2.5	422.5	330	5.71	N
2	11618 Rainbow Ridge	04/01/2007	1402	2.31	388	330	5.29	N
2	11618 Rainbow Ridge	04/02/2007	0721	1.89	424	330	4.12	N
2	11618 Rainbow Ridge	04/03/2007	0749	2.09	408	360	4.79	N
2	11618 Rainbow Ridge	04/04/2007	0745	2.24	423	330	4.8	N
2	11618 Rainbow Ridge	04/05/2007	0715	1.63	370	330	5.19	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
2	11618 Rainbow Ridge	04/06/2007	0715	1.68	392.5	300	3.51	N
2	11618 Rainbow Ridge	04/09/2007	1245	2.28	372	330	10.37	Y
3	9850 Signal Hill	01/12/2007	1535	1.04	435	300	9.33	Y
3	9850 Signal Hill	01/18/2007	1230	2.22	389	330	6.44	N
3	9850 Signal Hill	01/24/2007	1335	2.91	399	330	9.3	Y
3	9850 Signal Hill	01/25/2007	1110	1.79	423	330	4.89	N
3	9850 Signal Hill	01/26/2007	1400	1.45	391.5	320	5.15	N
3	9850 Signal Hill	01/27/2007	1522	1.85	419	370	9.71	Y
3	9850 Signal Hill	01/28/2007	1105	2.41	379.5	310	8.89	Y
3	9850 Signal Hill	01/29/2007	1105	2.53	385	320	8.56	Y
3	9850 Signal Hill	01/30/2007	1320	2.5	360.5	320	8.95	Y
3	9850 Signal Hill	01/31/2007	1130	1.4	398	320	5.93	N
3	9850 Signal Hill	02/01/2007	1130	1.89	383	320	6.91	N
3	9850 Signal Hill	02/02/2007	1235	1.61	420	320	5.05	N
3	9850 Signal Hill	02/03/2007	1145	1.51	389.5	320	5.79	N
3	9850 Signal Hill	02/04/2007	1310	2.03	382.5	320	8.51	Y
3	9850 Signal Hill	02/05/2007	1623	1.74	378	320	5.38	N
3	9850 Signal Hill	02/06/2007	1140	1.62	393	320	6.17	N
3	9850 Signal Hill	02/07/2007	1540	2.05	381	320	6.82	N
3	9850 Signal Hill	02/08/2007	1543	1.78	404.5	330	5.46	N
3	9850 Signal Hill	02/09/2007	1530	2.24	424.5	330	7.	N
3	9850 Signal Hill	02/10/2007	1210	1.81	389.5	320	6.12	N
3	9850 Signal Hill	02/11/2007	1103	2.13	382	320	6.28	N
3	9850 Signal Hill	02/12/2007	1200	1.24	423	340	4.99	N
3	9850 Signal Hill	02/12/2007	1710	0.9	371.5	330	4.26	N
3	9850 Signal Hill	02/13/2007	1015	1.81	383	320	8.	Y
3	9850 Signal Hill	02/13/2007	1605	2.03	382.5	320	8.04	Y
3	9850 Signal Hill	02/14/2007	0814	2.58	383	320	8.13	Y
3	9850 Signal Hill	02/14/2007	1552	2.39	383	330	6.12	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
3	9850 Signal Hill	02/16/2007	1250	2.26	389.5	320	3.77	N
3	9850 Signal Hill	02/16/2007	1550	2.37	412.5	320	4.65	N
3	9850 Signal Hill	02/17/2007	1230	3.76	410.5	320	4.72	N
3	9850 Signal Hill	02/17/2007	1455	0.93	375.5	310	5.7	N
3	9850 Signal Hill	02/18/2007	1050	0.98	378.5	310	4.4	N
3	9850 Signal Hill	02/18/2007	1545	0.89	410.5	320	4.1	N
3	9850 Signal Hill	02/19/2007	1200	1.23	425	340	4.63	N
3	9850 Signal Hill	02/20/2007	0810	2.14	393.5	330	4.93	N
3	9850 Signal Hill	02/20/2007	1235	1.79	415	330	4.12	N
3	9850 Signal Hill	02/21/2007	0840	1.99	388	330	5.26	N
3	9850 Signal Hill	02/21/2007	1245	2.01	388	330	5.2	N
3	9850 Signal Hill	02/22/2007	0820	1.75	418.5	330	4.35	N
3	9850 Signal Hill	02/22/2007	1230	1.71	423.5	330	4.51	N
3	9850 Signal Hill	02/23/2007	0820	1.25	428	330	4.26	N
3	9850 Signal Hill	02/23/2007	1505	1.31	412	360	3.83	N
3	9850 Signal Hill	02/24/2007	0954	1.91	393	330	4.89	N
3	9850 Signal Hill	02/24/2007	1440	1.82	404.5	330	4.81	N
3	9850 Signal Hill	02/25/2007	1014	2.25	423	330	5.35	N
3	9850 Signal Hill	02/25/2007	1427	2.03	432.5	330	4.68	N
3	9850 Signal Hill	02/26/2007	1245	2.11	424	330	5.75	N
3	9850 Signal Hill	02/26/2007	1632	1.67	432.5	330	4.45	N
3	9850 Signal Hill	02/27/2007	1130	2.7	404	330	7.71	N
3	9850 Signal Hill	02/27/2007	1603	1.74	404.5	330	5.1	N
3	9850 Signal Hill	02/28/2007	1100	2.53	396	330	7.39	N
3	9850 Signal Hill	02/28/2007	1512	1.58	370.5	330	4.23	N
3	9850 Signal Hill	03/01/2007	1105	1.87	399	330	4.91	N
3	9850 Signal Hill	03/01/2007	1543	2.09	387	330	5.96	N
3	9850 Signal Hill	03/02/2007	1135	2.15	410.5	360	4.4	N
3	9850 Signal Hill	03/02/2007	1430	2.41	418	330	5.72	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
3	9850 Signal Hill	03/03/2007	0943	2.81	427.5	330	6.04	N
3	9850 Signal Hill	03/03/2007	1332	2.28	399.5	330	6.17	N
3	9850 Signal Hill	03/04/2007	0920	2.31	424.5	330	5.3	N
3	9850 Signal Hill	03/04/2007	1705	2.47	410.5	360	5.13	N
3	9850 Signal Hill	03/05/2007	1155	1.84	427	330	4.83	N
3	9850 Signal Hill	03/05/2007	1559	2.5	358	300	6.27	N
3	9850 Signal Hill	03/06/2007	1146	1.96	394	330	5.53	N
3	9850 Signal Hill	03/06/2007	1450	1.58	422.5	330	4.25	N
3	9850 Signal Hill	03/07/2007	1354	1.71	370	330	4.93	N
3	9850 Signal Hill	03/07/2007	1550	1.6	388	330	4.4	N
3	9850 Signal Hill	03/08/2007	1145	1.56	395.5	330	4.65	N
3	9850 Signal Hill	03/08/2007	1613	1.64	394	330	4.62	N
3	9850 Signal Hill	03/09/2007	1225	1.37	433	330	4.45	N
3	9850 Signal Hill	03/09/2007	1610	1.47	423	330	4.16	N
3	9850 Signal Hill	03/10/2007	1100	2.18	422.5	330	5.49	N
3	9850 Signal Hill	03/10/2007	1340	1.63	394	330	4.54	N
3	9850 Signal Hill	03/11/2007	1240	2.26	428	330	5.32	N
3	9850 Signal Hill	03/11/2007	1525	2.08	406.5	330	4.52	N
3	9850 Signal Hill	03/12/2007	1058	1.62	423	330	4.64	N
3	9850 Signal Hill	03/12/2007	1510	1.91	423	330	5.49	N
3	9850 Signal Hill	03/13/2007	1310	4.43	404.5	330	8.08	Y
3	9850 Signal Hill	03/13/2007	1520	2.26	385.5	330	4.73	N
3	9850 Signal Hill	03/14/2007	1246	2.05	415	330	4.62	N
3	9850 Signal Hill	03/14/2007	1510	2.01	423	330	4.9	N
3	9850 Signal Hill	03/14/2007	1535	2.49	445.5	330	5.16	N
3	9850 Signal Hill	03/15/2007	1335	1.23	407	330	3.46	N
3	9850 Signal Hill	03/15/2007	1635	1.37	410.5	360	4.34	N
3	9850 Signal Hill	03/16/2007	1000	1.51	408	360	4.02	N
3	9850 Signal Hill	03/16/2007	1105	2.38	440	330	5.19	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
3	9850 Signal Hill	03/16/2007	1445	2.32	408	360	4.61	N
3	9850 Signal Hill	03/17/2007	0943	2.56	370.5	330	7.12	N
3	9850 Signal Hill	03/17/2007	1425	2.57	424	330	5.49	N
3	9850 Signal Hill	03/18/2007	1539	2.25	389.5	330	5.51	N
3	9850 Signal Hill	03/19/2007	1105	1.66	412	330	4.57	N
3	9850 Signal Hill	03/19/2007	1458	2.31	418	330	5.45	N
3	9850 Signal Hill	03/20/2007	1215	2.27	408	360	5.06	N
3	9850 Signal Hill	03/20/2007	1640	2.31	423.5	330	5.08	N
3	9850 Signal Hill	03/21/2007	1040	2.45	422.5	330	5.73	N
3	9850 Signal Hill	03/21/2007	1440	2.16	427	330	4.75	N
3	9850 Signal Hill	03/22/2007	1058	1.94	423	330	5.11	N
3	9850 Signal Hill	03/22/2007	1620	2.09	388	330	4.94	N
3	9850 Signal Hill	03/23/2007	1228	2.49	388	330	5.02	N
3	9850 Signal Hill	03/23/2007	1435	2.74	399	330	6.16	N
3	9850 Signal Hill	03/24/2007	0830	2.75	417.5	330	6.54	N
3	9850 Signal Hill	03/24/2007	1250	2.43	428	330	4.96	N
3	9850 Signal Hill	03/25/2007	1059	2.91	392	330	6.26	N
3	9850 Signal Hill	03/25/2007	1406	2.75	394	330	5.87	N
3	9850 Signal Hill	03/26/2007	1105	2.48	427	330	5.14	N
3	9850 Signal Hill	03/27/2007	1044	2.29	371	330	4.61	N
3	9850 Signal Hill	03/28/2007	0759	1.65	411.5	330	4.03	N
3	9850 Signal Hill	03/29/2007	0815	2.61	388	330	5.85	N
3	9850 Signal Hill	03/30/2007	0749	2.17	395.5	330	5.	N
3	9850 Signal Hill	03/31/2007	1431	2.71	408	360	5.46	N
3	9850 Signal Hill	04/01/2007	1350	2.37	440	330	4.66	N
3	9850 Signal Hill	04/02/2007	0746	2.01	433	330	4.44	N
3	9850 Signal Hill	04/03/2007	0720	2.12	375.5	300	4.22	N
3	9850 Signal Hill	04/04/2007	0745	2.2	407.5	360	4.75	N
3	9850 Signal Hill	04/05/2007	0740	1.94	393.5	330	5.08	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
3	9850 Signal Hill	04/06/2007	0741	1.93	393.5	330	4.25	N
3	9850 Signal Hill	04/09/2007	1255	1.97	372	330	8.32	Y
4	Helotes Plant	01/02/2007	1352	1.83	410.5	320	6.38	N
4	Helotes Plant	01/12/2007	1015	1.47	419	370	9.93	N
4	Helotes Plant	01/25/2007	1430	2.28	394.5	310	6.2	N
4	Helotes Plant	01/26/2007	1548	2.22	385	320	7.37	N
4	Helotes Plant	01/27/2007	1540	2.15	363	310	7.62	N
4	Helotes Plant	01/29/2007	1550	1.93	379	310	6.66	N
4	Helotes Plant	01/30/2007	1545	2.51	365	320	6.99	N
4	Helotes Plant	01/31/2007	1200	1.71	376	320	5.72	N
4	Helotes Plant	02/02/2007	1500	2.08	394	310	6.15	N
4	Helotes Plant	02/05/2007	1545	2.37	382.5	320	8.69	N
4	Helotes Plant	02/06/2007	1510	1.9	384.5	340	8.86	N
4	Helotes Plant	02/08/2007	1530	6.79	435	350	24.42	Y
4	Helotes Plant	02/09/2007	1617	11.68	424.5	380	28.8	Y
4	Helotes Plant	02/10/2007	1056	26.03	420.5	280	45.41	Y
4	Helotes Plant	02/12/2007	1515	11.27	385	320	22.24	Y
4	Helotes Plant	02/13/2007	1520	4.76	381.5	320	14.92	Y
4	Helotes Plant	02/14/2007	1336	4.31	398	320	10.48	N
4	Helotes Plant	02/15/2007	1515	3.65	387	320	9.87	N
4	Helotes Plant	02/16/2007	1145	0.86	384.5	340	6.26	N
4	Helotes Plant	02/17/2007	1135	2.82	405.5	320	6.71	N
4	Helotes Plant	02/19/2007	1545	1.94	405.5	320	7.44	N
4	Helotes Plant	02/20/2007	1550	2.25	388	330	5.54	N
4	Helotes Plant	02/21/2007	1545	3.47	423	330	7.38	N
4	Helotes Plant	02/22/2007	1520	1.65	405.5	360	4.6	N
4	Helotes Plant	02/23/2007	1525	4.12	389.5	330	10.78	N
4	Helotes Plant	02/26/2007	1602	3.82	372	300	8.87	N
4	Helotes Plant	02/28/2007	1540	2.83	428.5	330	6.11	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
4	Helotes Plant	03/01/2007	1400	3.73	433	330	8.2	N
4	Helotes Plant	03/02/2007	1500	3.17	393.5	330	6.96	N
4	Helotes Plant	03/05/2007	1612	4.55	388	330	10.38	N
4	Helotes Plant	03/07/2007	1519	2.88	395.5	330	7.67	N
4	Helotes Plant	03/09/2007	1500	2.57	415	330	5.84	N
4	Helotes Plant	03/12/2007	1445	3.03	389	330	6.39	N
4	Helotes Plant	03/14/2007	1555	11.06	394	330	20.31	Y
4	Helotes Plant	03/14/2007	1555	4.93	404.5	330	11.87	N
4	Helotes Plant	03/15/2007	1455	2.62	422.5	330	6.48	N
4	Helotes Plant	03/16/2007	1640	2.15	424.5	330	5.06	N
4	Helotes Plant	03/19/2007	1535	1.72	405.5	360	4.02	N
4	Helotes Plant	03/20/2007	1615	2.68	423	330	5.31	N
4	Helotes Plant	03/21/2007	1520	2.46	410.5	330	4.91	N
4	Helotes Plant	03/22/2007	1510	2.18	433.5	330	4.53	N
4	Helotes Plant	03/23/2007	1410	2.85	388	330	6.62	N
6	11133 Javelin Tr	01/12/2007	1040	1.4	371	290	9.69	N
7	12042 Leslie	01/12/2007	1100	1.53	418	300	6.69	N
8	11595 Leslie	01/12/2007	1120	1.6	352	300	7.72	N
9	10792 Leslie	01/12/2007	1145	1.35	420	370	9.32	N
10	12037 FM 1560N	01/12/2007	1027	1.9	369	290	9.46	N
10	12037 FM 1560N	01/24/2007	0920	3.32	387	320	11.74	Y
10	12037 FM 1560N	01/25/2007	0920	1.96	400	290	9.31	N
10	12037 FM 1560N	01/26/2007	1501	3.3	431	340	9.12	N
10	12037 FM 1560N	01/28/2007	0945	7.21	430.5	340	18.84	Y
10	12037 FM 1560N	01/29/2007	1140	4.76	394.5	320	11.28	Y
10	12037 FM 1560N	01/30/2007	1011	5.03	424.5	330	11.75	Y
10	12037 FM 1560N	01/30/2007	1030	2.7	376.5	320	8.95	N
10	12037 FM 1560N	01/31/2007	1040	2.79	408	330	7.41	N
10	12037 FM 1560N	02/01/2007	1020	3.62	404.5	330	9.02	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
10	12037 FM 1560N	02/02/2007	1210	2.76	403.5	320	6.95	N
10	12037 FM 1560N	02/03/2007	1050	2.48	376	320	6.96	N
10	12037 FM 1560N	02/04/2007	1100	2.91	376.5	320	9.47	N
10	12037 FM 1560N	02/05/2007	1251	2.23	408	310	8.09	N
10	12037 FM 1560N	02/06/2007	1005	2.58	395	320	8.58	N
10	12037 FM 1560N	02/07/2007	1435	2.82	420	320	7.06	N
10	12037 FM 1560N	02/08/2007	1040	5.54	437	350	18.97	Y
10	12037 FM 1560N	02/09/2007	1345	2.46	401	320	7.09	N
10	12037 FM 1560N	02/10/2007	1030	2.18	361	320	7.64	N
10	12037 FM 1560N	02/11/2007	1035	1.78	412	330	5.21	N
10	12037 FM 1560N	02/12/2007	0955	1.89	401	300	7.55	N
10	12037 FM 1560N	02/12/2007	1013	2.02	360.5	320	6.87	N
10	12037 FM 1560N	02/13/2007	0925	2.12	379	320	7.7	N
10	12037 FM 1560N	02/13/2007	1635	2.21	410.5	320	7.54	N
10	12037 FM 1560N	02/14/2007	0953	3.01	381	320	9.41	N
10	12037 FM 1560N	02/15/2007	1044	2.15	367.5	320	6.21	N
10	12037 FM 1560N	02/16/2007	1110	0.54	399.5	340	6.53	N
10	12037 FM 1560N	02/16/2007	1625	2.28	427	280	5.01	N
10	12037 FM 1560N	02/17/2007	1120	0.93	419.5	320	4.26	N
10	12037 FM 1560N	02/17/2007	1409	0.96	409.5	310	5.68	N
10	12037 FM 1560N	02/18/2007	0950	1.25	384.5	340	4.55	N
10	12037 FM 1560N	02/18/2007	1414	1.46	383	320	6.	N
10	12037 FM 1560N	02/20/2007	0933	2.23	404	330	5.74	N
10	12037 FM 1560N	02/20/2007	1355	2.25	358	300	5.95	N
10	12037 FM 1560N	02/21/2007	1025	2.5	362	300	5.63	N
10	12037 FM 1560N	02/21/2007	1420	1.98	406.5	330	4.92	N
10	12037 FM 1560N	02/22/2007	1003	1.69	404	330	5.23	N
10	12037 FM 1560N	02/22/2007	1445	2.1	423	330	5.47	N
10	12037 FM 1560N	02/23/2007	1045	1.39	404.5	330	4.35	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
10	12037 FM 1560N	02/23/2007	1637	1.27	389.5	330	4.27	N
10	12037 FM 1560N	02/24/2007	0926	2.1	424	330	5.51	N
10	12037 FM 1560N	02/24/2007	1335	1.91	370	330	5.05	N
10	12037 FM 1560N	02/25/2007	0916	1.78	432.5	330	4.89	N
10	12037 FM 1560N	02/25/2007	1323	2.01	430	330	4.62	N
10	12037 FM 1560N	02/26/2007	1022	1.64	408	360	4.93	N
10	12037 FM 1560N	02/26/2007	1442	1.79	394	330	4.78	N
10	12037 FM 1560N	02/27/2007	1050	1.85	395.5	330	5.55	N
10	12037 FM 1560N	02/27/2007	1504	1.66	415	330	4.79	N
10	12037 FM 1560N	02/28/2007	1012	1.98	399	330	5.23	N
10	12037 FM 1560N	02/28/2007	1345	2.15	388	330	5.18	N
10	12037 FM 1560N	03/01/2007	1053	2	395.5	330	5.28	N
10	12037 FM 1560N	03/01/2007	1525	1.67	408	360	4.55	N
10	12037 FM 1560N	03/02/2007	1045	2.68	388	330	7.29	N
10	12037 FM 1560N	03/02/2007	1330	2.59	388	330	6.55	N
10	12037 FM 1560N	03/02/2007	1417	1.61	434	330	4.52	N
10	12037 FM 1560N	03/03/2007	0913	2.4	422.5	330	6.05	N
10	12037 FM 1560N	03/03/2007	1241	2.54	423	330	5.61	N
10	12037 FM 1560N	03/04/2007	1045	2.69	423	330	6.05	N
10	12037 FM 1560N	03/04/2007	1619	2.55	404.5	330	5.6	N
10	12037 FM 1560N	03/05/2007	1000	1.65	395.5	330	4.5	N
10	12037 FM 1560N	03/05/2007	1340	2.15	430	360	5.64	N
10	12037 FM 1560N	03/06/2007	0945	2.14	408	360	5.26	N
10	12037 FM 1560N	03/06/2007	1410	1.83	370	330	4.73	N
10	12037 FM 1560N	03/07/2007	0816	1.8	407	330	4.92	N
10	12037 FM 1560N	03/07/2007	1710	2.03	423	330	5.72	N
10	12037 FM 1560N	03/08/2007	1046	1.86	418	330	5.22	N
10	12037 FM 1560N	03/08/2007	1520	1.73	429.5	330	4.75	N
10	12037 FM 1560N	03/09/2007	1010	1.91	432.5	330	4.6	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
10	12037 FM 1560N	03/09/2007	1517	1.46	406.5	330	3.97	N
10	12037 FM 1560N	03/10/2007	0935	1.71	404.5	330	4.64	N
10	12037 FM 1560N	03/11/2007	1042	2.06	408	330	4.86	N
10	12037 FM 1560N	03/11/2007	1300	2.09	388	330	4.59	N
10	12037 FM 1560N	03/12/2007	1000	2.11	366	300	8.2	N
10	12037 FM 1560N	03/12/2007	1000	1.96	424	330	5.03	N
10	12037 FM 1560N	03/12/2007	1540	14.06	422	330	27.35	Y
10	12037 FM 1560N	03/12/2007	1540	13.47	422.5	340	28.64	Y
10	12037 FM 1560N	03/13/2007	1025	12	423	330	21.53	Y
10	12037 FM 1560N	03/13/2007	1025	10.27	429.5	320	22.66	Y
10	12037 FM 1560N	03/13/2007	1635	11.9	422.5	330	23.04	Y
10	12037 FM 1560N	03/13/2007	1635	10.1	428	330	22.07	Y
10	12037 FM 1560N	03/14/2007	1045	13.46	424	330	29.82	Y
10	12037 FM 1560N	03/14/2007	1045	15.67	437.5	330	28.19	Y
10	12037 FM 1560N	03/14/2007	1345	15.62	418	330	29.61	Y
10	12037 FM 1560N	03/14/2007	1500	10.89	439.5	330	20.56	Y
10	12037 FM 1560N	03/15/2007	1035	12.2	424	340	27.51	Y
10	12037 FM 1560N	03/15/2007	1035	11.19	447	330	21.52	Y
10	12037 FM 1560N	03/15/2007	1548	10.58	437	330	20.3	Y
10	12037 FM 1560N	03/16/2007	0950	9.93	423	330	18.74	Y
10	12037 FM 1560N	03/16/2007	0950	8.59	429	340	19.4	Y
10	12037 FM 1560N	03/16/2007	1120	9.33	415.5	330	19.07	Y
10	12037 FM 1560N	03/16/2007	1355	9.8	437.5	330	18.63	Y
10	12037 FM 1560N	03/17/2007	1107	8.96	428.5	330	17.95	Y
10	12037 FM 1560N	03/17/2007	1107	7.43	438.5	330	16.86	Y
10	12037 FM 1560N	03/17/2007	1521	8.33	417.5	330	16.05	Y
10	12037 FM 1560N	03/18/2007	0905	7.98	433	330	16.16	Y
10	12037 FM 1560N	03/18/2007	1425	7.91	433	330	15.67	Y
10	12037 FM 1560N	03/18/2007	1515	6.63	422.5	350	15.07	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
10	12037 FM 1560N	03/18/2007	1515	7.98	443	330	15.02	Y
10	12037 FM 1560N	03/19/2007	1015	7.43	415.5	330	15.27	Y
10	12037 FM 1560N	03/19/2007	1015	6.12	428	330	15.06	Y
10	12037 FM 1560N	03/19/2007	1405	6.79	427	330	13.44	Y
10	12037 FM 1560N	03/20/2007	1120	6.97	430	330	13.6	Y
10	12037 FM 1560N	03/20/2007	1510	5.68	427	330	13.91	Y
10	12037 FM 1560N	03/20/2007	1510	7.14	438	330	14.37	Y
10	12037 FM 1560N	03/21/2007	0945	6.92	406.5	330	13.55	Y
10	12037 FM 1560N	03/21/2007	1325	6.17	425.5	330	11.92	Y
10	12037 FM 1560N	03/22/2007	0932	6.34	422.5	330	12.8	Y
10	12037 FM 1560N	03/22/2007	1340	6.31	423	330	14.84	Y
10	12037 FM 1560N	03/23/2007	1251	23.86	414.5	330	49.08	Y
10	12037 FM 1560N	03/23/2007	1510	29.53	415	320	74.69	Y
10	12037 FM 1560N	03/23/2007	1510	35.43	415.5	330	74.72	Y
10	12037 FM 1560N	03/24/2007	1007	15.12	408.5	320	35.87	Y
10	12037 FM 1560N	03/24/2007	1007	18.68	422.5	330	42.39	Y
10	12037 FM 1560N	03/24/2007	1409	17.69	418	330	36.69	Y
10	12037 FM 1560N	03/25/2007	1032	17.75	416.5	330	37.51	Y
10	12037 FM 1560N	03/25/2007	1032	14.41	420.5	320	34.81	Y
10	12037 FM 1560N	03/25/2007	1545	18.68	415	330	39.4	Y
10	12037 FM 1560N	03/26/2007	1025	9.81	418	330	21.82	Y
10	12037 FM 1560N	03/26/2007	1025	11.26	422.5	330	21.52	Y
10	12037 FM 1560N	03/27/2007	0820	12.88	410.5	330	32.74	Y
10	12037 FM 1560N	03/27/2007	0820	14.41	423	330	30.34	Y
10	12037 FM 1560N	03/28/2007	0849	11.23	422.5	330	26.47	N
10	12037 FM 1560N	03/28/2007	0849	12.92	422.5	330	27.79	Y
10	12037 FM 1560N	03/29/2007	0854	12.1	415	330	29.02	Y
10	12037 FM 1560N	03/29/2007	0854	12.94	415.5	330	27.31	Y
10	12037 FM 1560N	03/30/2007	0908	6.76	417.5	330	14.07	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
10	12037 FM 1560N	03/31/2007	1306	7.11	406	330	14.05	Y
10	12037 FM 1560N	04/01/2007	1522	7.68	423	330	16.02	Y
10	12037 FM 1560N	04/01/2007	1522	6.35	437	330	16.	Y
10	12037 FM 1560N	04/02/2007	1020	7.41	422.5	330	13.59	Y
10	12037 FM 1560N	04/02/2007	1020	5.43	433.5	330	12.81	Y
10	12037 FM 1560N	04/03/2007	0724	7.4	407	330	16.67	Y
10	12037 FM 1560N	04/03/2007	0724	8.46	422.5	330	18.02	Y
10	12037 FM 1560N	04/04/2007	0831	6.1	426.5	330	12.37	Y
10	12037 FM 1560N	04/05/2007	0851	1.15	408	360	3.26	N
10	12037 FM 1560N	04/06/2007	0826	4.98	432.5	330	9.97	N
10	12037 FM 1560N	04/09/2007	1325	5.22	370.5	330	12.33	Y
10	12037 FM 1560N	05/14/2007	1210		0	0	.	N
11	10586 Parrigin	01/12/2007	1050	1.56	381	300	9.2	N
11	10586 Parrigin	01/17/2007	1625	64.75	405	330	159.39	Y
11	10586 Parrigin	01/24/2007	0935	20.23	402	330	45.95	Y
11	10586 Parrigin	01/24/2007	1400	21.22	422	330	49.63	Y
11	10586 Parrigin	01/25/2007	0820	5.96	429	330	14.95	N
11	10586 Parrigin	01/26/2007	1519	8.18	404	330	21.53	Y
11	10586 Parrigin	01/26/2007	1538	6	417.5	340	15.34	Y
11	10586 Parrigin	01/27/2007	1434	9.19	394	320	24.29	Y
11	10586 Parrigin	01/29/2007	0930	4.38	423	330	10.74	N
11	10586 Parrigin	01/29/2007	1410	9.54	404	330	23.39	Y
11	10586 Parrigin	01/29/2007	1430	4.08	412	320	9.31	N
11	10586 Parrigin	01/30/2007	0910	3.64	428	320	9.75	N
11	10586 Parrigin	01/30/2007	1440	3.78	410.5	330	10.32	N
11	10586 Parrigin	01/31/2007	0800	5.89	425	340	15.26	Y
11	10586 Parrigin	01/31/2007	0920	5.47	437	340	14.41	N
11	10586 Parrigin	01/31/2007	1505	4.05	415	330	11.43	N
11	10586 Parrigin	01/31/2007	1552	7.95	404	330	20.49	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
11	10586 Parrigin	02/01/2007	0849	6.84	402.5	320	17.38	Y
11	10586 Parrigin	02/02/2007	1004	6.56	419.5	320	18.92	Y
11	10586 Parrigin	02/02/2007	1730	5.98	415.5	330	17.41	Y
11	10586 Parrigin	02/03/2007	0905	6.55	403.5	320	18.	Y
11	10586 Parrigin	02/04/2007	0810	5.68	413	320	16.36	Y
11	10586 Parrigin	02/04/2007	1430	5.12	424.5	320	15.69	N
11	10586 Parrigin	02/05/2007	0915	7.39	389.5	320	19.36	Y
11	10586 Parrigin	02/05/2007	1700	7.81	383	320	21.25	Y
11	10586 Parrigin	02/06/2007	0843	5.65	411.5	330	15.1	Y
11	10586 Parrigin	02/06/2007	1520	5.74	412.5	320	15.61	Y
11	10586 Parrigin	02/07/2007	1243	5.98	414.5	330	17.16	Y
11	10586 Parrigin	02/07/2007	1710	7.56	392.5	320	19.55	Y
11	10586 Parrigin	02/08/2007	0935	6.48	404.5	330	16.33	Y
11	10586 Parrigin	02/08/2007	1630	6.25	411.5	330	15.86	Y
11	10586 Parrigin	02/09/2007	1040	7.87	394.5	320	21.25	Y
11	10586 Parrigin	02/09/2007	1700	7.46	410	320	19.38	Y
11	10586 Parrigin	02/10/2007	1010	6.79	407.5	330	17.96	Y
11	10586 Parrigin	02/10/2007	1400	6.32	405	320	16.03	Y
11	10586 Parrigin	02/11/2007	0935	5.04	424	330	13.78	N
11	10586 Parrigin	02/11/2007	1505	7.11	405	320	18.91	Y
11	10586 Parrigin	02/12/2007	0835	4.21	419	340	13.76	N
11	10586 Parrigin	02/12/2007	1545	6.6	406.5	330	18.03	Y
11	10586 Parrigin	02/13/2007	0828	5.53	404.5	330	15.63	Y
11	10586 Parrigin	02/13/2007	1405	6.94	399.5	330	18.61	Y
11	10586 Parrigin	02/14/2007	0855	8.04	422.5	330	20.95	Y
11	10586 Parrigin	02/14/2007	1730	7.58	407	330	22.66	Y
11	10586 Parrigin	02/15/2007	0911	8.31	407	330	22.25	Y
11	10586 Parrigin	02/15/2007	1540	6.14	415	330	16.82	Y
11	10586 Parrigin	02/16/2007	1005	1.59	423	330	17.11	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
11	10586 Parrigin	02/16/2007	1645	1.72	412	330	13.41	N
11	10586 Parrigin	02/17/2007	0920	3.28	398	320	18.36	Y
11	10586 Parrigin	02/17/2007	1610	1.9	410.5	330	17.	N
11	10586 Parrigin	02/18/2007	0845	1.04	415.5	330	19.84	Y
11	10586 Parrigin	02/19/2007	0835	5.95	401.5	330	15.74	Y
11	10586 Parrigin	02/19/2007	1610	5.26	407.5	330	14.89	N
11	10586 Parrigin	02/20/2007	0850	6.83	404.5	330	15.43	Y
11	10586 Parrigin	02/20/2007	1546	7.13	406.5	330	16.56	Y
11	10586 Parrigin	02/21/2007	0745	5.25	414	330	10.87	N
11	10586 Parrigin	02/21/2007	0838	6.19	408	330	14.54	N
11	10586 Parrigin	02/21/2007	0838	5.56	415.5	330	14.61	N
11	10586 Parrigin	02/21/2007	1600	4.26	424	330	10.98	N
11	10586 Parrigin	02/22/2007	1612	6.33	404.5	330	15.14	Y
11	10586 Parrigin	02/22/2007	1612	6.05	406	330	14.46	N
11	10586 Parrigin	02/23/2007	0836	6.12	406.5	330	14.76	N
11	10586 Parrigin	02/23/2007	1745	6.81	404	330	17.35	Y
11	10586 Parrigin	02/24/2007	0836	6.39	404.5	330	13.64	N
11	10586 Parrigin	02/24/2007	1609	7.32	418	330	15.92	Y
11	10586 Parrigin	02/25/2007	0831	7.78	418	330	16.15	Y
11	10586 Parrigin	02/25/2007	1530	8.55	422	330	17.52	Y
11	10586 Parrigin	02/26/2007	0920	7.08	410.5	330	15.4	Y
11	10586 Parrigin	02/26/2007	1810	7.16	408	330	15.55	Y
11	10586 Parrigin	02/27/2007	0923	6.11	430.5	330	13.9	N
11	10586 Parrigin	02/27/2007	1442	6.69	414.5	330	15.16	Y
11	10586 Parrigin	02/28/2007	0857	6.9	404.5	330	16.03	Y
11	10586 Parrigin	03/01/2007	1018	6.22	405.5	330	14.84	N
11	10586 Parrigin	03/01/2007	1625	6.9	410.5	330	15.18	Y
11	10586 Parrigin	03/02/2007	1010	7.95	407.5	330	18.07	Y
11	10586 Parrigin	03/02/2007	1629	7.9	418	330	16.54	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
11	10586 Parrigin	03/03/2007	0837	8.43	422	330	17.84	Y
11	10586 Parrigin	03/03/2007	1457	8.44	433	330	18.15	Y
11	10586 Parrigin	03/04/2007	0745	6.44	422.5	330	14.5	N
11	10586 Parrigin	03/04/2007	1410	6.63	407.5	330	14.26	N
11	10586 Parrigin	03/04/2007	1835	7.25	396	330	15.22	Y
11	10586 Parrigin	03/05/2007	0920	4.31	405.5	330	11.38	N
11	10586 Parrigin	03/05/2007	1315	7.25	423	330	15.53	Y
11	10586 Parrigin	03/05/2007	1720	8.15	423	330	18.41	Y
11	10586 Parrigin	03/06/2007	0910	6.78	423.5	330	15.37	Y
11	10586 Parrigin	03/06/2007	1658	7.86	428	330	17.77	Y
11	10586 Parrigin	03/07/2007	0856	6.99	422.5	330	17.12	Y
11	10586 Parrigin	03/07/2007	1725	6.64	418	330	15.39	Y
11	10586 Parrigin	03/08/2007	0945	6.92	408	330	15.46	Y
11	10586 Parrigin	03/08/2007	1511	6.67	429	330	15.01	Y
11	10586 Parrigin	03/09/2007	0850	4.91	410.5	330	12.99	N
11	10586 Parrigin	03/09/2007	0945	6.76	406.5	330	15.59	Y
11	10586 Parrigin	03/09/2007	1646	6.67	414	330	14.95	Y
11	10586 Parrigin	03/10/2007	0850	6.6	405.5	330	15.13	Y
11	10586 Parrigin	03/10/2007	1355	7.34	404.5	330	17.08	Y
11	10586 Parrigin	03/10/2007	1355	4.87	407	330	13.86	N
11	10586 Parrigin	03/11/2007	0935	6.99	433.5	330	14.25	N
11	10586 Parrigin	03/11/2007	1450	7.03	407	330	16.49	Y
11	10586 Parrigin	03/12/2007	0910	22.04	413	320	50.83	Y
11	10586 Parrigin	03/12/2007	0910	25.13	415.5	330	50.26	Y
11	10586 Parrigin	03/12/2007	1217	0.65	402	360	2.11	N
11	10586 Parrigin	03/12/2007	1615	1.04	370.5	330	4.55	N
11	10586 Parrigin	03/12/2007	1615	1.01	452	320	10.	N
11	10586 Parrigin	03/13/2007	0900	11.74	426.5	330	22.42	Y
11	10586 Parrigin	03/13/2007	0900	10.42	432	340	22.61	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
11	10586 Parrigin	03/13/2007	1645	9.97	442	340	21.38	Y
11	10586 Parrigin	03/13/2007	1645	10.97	443.5	330	20.91	Y
11	10586 Parrigin	03/14/2007	0950	13.11	431.5	340	31.81	Y
11	10586 Parrigin	03/14/2007	0950	15.38	443.5	330	29.39	Y
11	10586 Parrigin	03/14/2007	1455	1.36	370	330	3.84	N
11	10586 Parrigin	03/15/2007	0840	9.19	423	340	20.03	Y
11	10586 Parrigin	03/15/2007	0840	11.46	433	330	23.7	Y
11	10586 Parrigin	03/15/2007	1705	1.09	387.5	330	2.77	N
11	10586 Parrigin	03/16/2007	0833	10.04	404.5	330	19.71	Y
11	10586 Parrigin	03/16/2007	0833	8.47	427	340	18.69	Y
11	10586 Parrigin	03/16/2007	1240	0.65	381.5	330	2.66	N
11	10586 Parrigin	03/16/2007	1620	9.24	434.5	330	17.9	Y
11	10586 Parrigin	03/17/2007	0842	1.69	387.5	300	4.48	N
11	10586 Parrigin	03/17/2007	1631	8.88	427.5	330	18.65	Y
11	10586 Parrigin	03/17/2007	1631	7.62	433	330	17.68	Y
11	10586 Parrigin	03/18/2007	0852	6.25	412	330	14.48	N
11	10586 Parrigin	03/18/2007	0852	8.22	428	330	15.58	Y
11	10586 Parrigin	03/18/2007	1546	8.04	425.5	330	15.52	Y
11	10586 Parrigin	03/19/2007	0905	6.8	439.5	330	14.83	N
11	10586 Parrigin	03/19/2007	1522	6.7	423	330	15.71	Y
11	10586 Parrigin	03/19/2007	1522	5.92	427	330	14.09	N
11	10586 Parrigin	03/20/2007	1040	7.1	432	330	13.16	N
11	10586 Parrigin	03/20/2007	1640	1.22	408	360	3.51	N
11	10586 Parrigin	03/21/2007	0835	6.23	440	330	11.9	N
11	10586 Parrigin	03/21/2007	1651	1.56	408	360	3.3	N
11	10586 Parrigin	03/22/2007	0903	49.59	418.5	330	103.77	Y
11	10586 Parrigin	03/22/2007	0903	42.39	423	330	103.13	Y
11	10586 Parrigin	03/22/2007	1801	1.72	343	300	4.35	N
11	10586 Parrigin	03/23/2007	1035	65.33	410.5	330	137.31	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
11	10586 Parrigin	03/23/2007	1035	54.47	422.5	330	128.89	Y
11	10586 Parrigin	03/23/2007	1704	1.8	367	300	3.94	N
11	10586 Parrigin	03/24/2007	0910	34.89	410	330	85.09	Y
11	10586 Parrigin	03/24/2007	0910	43.58	410	330	93.2	Y
11	10586 Parrigin	03/24/2007	1510	42.08	417.5	330	88.86	Y
11	10586 Parrigin	03/25/2007	0908	34.45	414.5	330	71.04	Y
11	10586 Parrigin	03/25/2007	0908	28.09	415.5	330	66.18	Y
11	10586 Parrigin	03/25/2007	1445	28.18	408.5	330	57.7	Y
11	10586 Parrigin	03/26/2007	0935	13.96	410.5	320	32.09	Y
11	10586 Parrigin	03/26/2007	0935	16.72	415	330	33.46	Y
11	10586 Parrigin	03/27/2007	1225	1.94	364	300	4.54	N
11	10586 Parrigin	03/28/2007	1259	1.36	407.5	360	4.71	N
11	10586 Parrigin	03/29/2007	1239	1.77	360.5	300	4.71	N
11	10586 Parrigin	03/30/2007	1540	1.86	362	300	4.23	N
11	10586 Parrigin	03/31/2007	1214	8.57	423	330	17.75	Y
11	10586 Parrigin	03/31/2007	1214	7.3	427	350	17.85	Y
11	10586 Parrigin	04/01/2007	1616	8.24	418	330	16.18	N
11	10586 Parrigin	04/01/2007	1616	6.67	422.5	340	16.09	N
11	10586 Parrigin	04/02/2007	1333	1.68	367	300	4.02	N
11	10586 Parrigin	04/03/2007	1325	1.5	408	360	4.61	N
11	10586 Parrigin	04/04/2007	1249	6.14	423	330	12.23	N
11	10586 Parrigin	04/05/2007	1346	5.74	423	330	11.61	N
11	10586 Parrigin	04/06/2007	1311	5.49	430	330	11.14	N
11	10586 Parrigin	04/09/2007	1422	5.74	370	330	12.81	N
11	10586 Parrigin	05/14/2007	1314		0	0	.	N
12	11004 Mesquite Flat	01/12/2007	1110	2.47	434	280	9.94	N
12	11004 Mesquite Flat	01/24/2007	1020	4.86	417	320	14.29	Y
12	11004 Mesquite Flat	01/25/2007	1130	2.47	418	320	7.16	N
12	11004 Mesquite Flat	01/28/2007	1215	1.83	384.5	340	5.43	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
12	11004 Mesquite Flat	01/29/2007	0940	2.08	387.5	320	6.94	N
12	11004 Mesquite Flat	01/30/2007	0945	1.8	367.5	320	7.02	N
12	11004 Mesquite Flat	01/30/2007	1020	1.71	389.5	330	4.95	N
12	11004 Mesquite Flat	01/31/2007	0948	2.57	391	320	8.01	N
12	11004 Mesquite Flat	02/01/2007	0925	2.36	381	320	6.04	N
12	11004 Mesquite Flat	02/02/2007	1050	2.15	387.5	320	7.88	N
12	11004 Mesquite Flat	02/03/2007	0950	2.38	393	320	6.63	N
12	11004 Mesquite Flat	02/04/2007	0830	1.53	385	320	7.48	N
12	11004 Mesquite Flat	02/05/2007	0950	2.84	368	320	12.06	Y
12	11004 Mesquite Flat	02/06/2007	0935	2.19	374.5	320	8.57	N
12	11004 Mesquite Flat	02/07/2007	1303	2.25	375	320	5.49	N
12	11004 Mesquite Flat	02/08/2007	0955	5.54	437	350	19.29	Y
12	11004 Mesquite Flat	02/09/2007	1058	2.22	422.5	330	6.77	N
12	11004 Mesquite Flat	02/10/2007	0950	1.59	420	340	4.92	N
12	11004 Mesquite Flat	02/10/2007	1000	3.41	427	330	10.97	Y
12	11004 Mesquite Flat	02/11/2007	0955	2.49	371.5	310	7.16	N
12	11004 Mesquite Flat	02/11/2007	1040	2.98	417.5	330	8.78	N
12	11004 Mesquite Flat	02/12/2007	0853	1.31	392.5	320	5.37	N
12	11004 Mesquite Flat	02/12/2007	1616	1.94	367.5	320	8.75	N
12	11004 Mesquite Flat	02/13/2007	0845	1.55	392	330	6.38	N
12	11004 Mesquite Flat	02/13/2007	1421	2.23	378	320	8.11	N
12	11004 Mesquite Flat	02/14/2007	0911	1.44	404.5	330	4.85	N
12	11004 Mesquite Flat	02/14/2007	1815	1.22	387.5	320	4.27	N
12	11004 Mesquite Flat	02/15/2007	0935	2.24	376	320	8.81	N
12	11004 Mesquite Flat	02/15/2007	1420	2.87	422.5	330	8.62	N
12	11004 Mesquite Flat	02/16/2007	1040	1.39	434	330	4.35	N
12	11004 Mesquite Flat	02/16/2007	1410	1.89	406.5	330	5.38	N
12	11004 Mesquite Flat	02/17/2007	0940	1.56	399	310	7.51	N
12	11004 Mesquite Flat	02/17/2007	1600	1.41	397.5	310	6.77	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
12	11004 Mesquite Flat	02/18/2007	0908	3.5	405.5	340	5.02	N
12	11004 Mesquite Flat	02/18/2007	1330	0.8	382.5	320	4.13	N
12	11004 Mesquite Flat	02/19/2007	0857	2.88	400.5	310	7.32	N
12	11004 Mesquite Flat	02/19/2007	1300	2.5	376	320	6.92	N
12	11004 Mesquite Flat	02/20/2007	1450	1.69	408	360	4.95	N
12	11004 Mesquite Flat	02/21/2007	0810	2.15	408	360	5.01	N
12	11004 Mesquite Flat	02/21/2007	1230	1.8	388	330	4.98	N
12	11004 Mesquite Flat	02/22/2007	0855	3.86	413.5	300	13.56	Y
12	11004 Mesquite Flat	02/22/2007	1435	2.86	406.5	330	6.21	N
12	11004 Mesquite Flat	02/22/2007	1555	1.99	399.5	330	4.55	N
12	11004 Mesquite Flat	02/23/2007	0847	1.37	404.5	330	4.42	N
12	11004 Mesquite Flat	02/23/2007	1740	1.18	388	330	4.11	N
12	11004 Mesquite Flat	02/24/2007	0848	2	404.5	330	5.66	N
12	11004 Mesquite Flat	02/24/2007	1410	1.81	415	330	5.38	N
12	11004 Mesquite Flat	02/25/2007	0841	2.27	423	330	4.98	N
12	11004 Mesquite Flat	02/26/2007	0946	2.58	414.5	330	6.35	N
12	11004 Mesquite Flat	02/26/2007	1753	1.53	370.5	330	7.42	N
12	11004 Mesquite Flat	02/27/2007	0939	1.19	411.5	330	4.09	N
12	11004 Mesquite Flat	02/27/2007	1429	1.35	385.5	330	4.82	N
12	11004 Mesquite Flat	02/28/2007	0924	1.7	408	360	5.57	N
12	11004 Mesquite Flat	02/28/2007	1610	1.53	392	330	3.79	N
12	11004 Mesquite Flat	03/01/2007	1027	2.15	422.5	330	5.91	N
12	11004 Mesquite Flat	03/01/2007	1604	2.19	433	330	5.5	N
12	11004 Mesquite Flat	03/02/2007	0946	2.21	371	330	5.6	N
12	11004 Mesquite Flat	03/02/2007	1350	2.2	425.5	360	5.65	N
12	11004 Mesquite Flat	03/03/2007	0825	2.75	422.5	330	6.17	N
12	11004 Mesquite Flat	03/03/2007	1442	2.35	399	330	4.73	N
12	11004 Mesquite Flat	03/04/2007	0840	2.43	393.5	330	5.1	N
12	11004 Mesquite Flat	03/04/2007	1815	2.24	404.5	330	5.78	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
12	11004 Mesquite Flat	03/05/2007	0900	1.99	433	330	5.39	N
12	11004 Mesquite Flat	03/05/2007	1712	1.87	423	330	5.21	N
12	11004 Mesquite Flat	03/06/2007	0850	1.53	434	330	4.89	N
12	11004 Mesquite Flat	03/06/2007	1636	1.58	440.5	330	4.36	N
12	11004 Mesquite Flat	03/07/2007	0827	2.24	399	330	5.78	N
12	11004 Mesquite Flat	03/07/2007	1644	1.71	406	330	4.57	N
12	11004 Mesquite Flat	03/08/2007	0906	1.95	388	330	5.14	N
12	11004 Mesquite Flat	03/08/2007	1443	1.7	388	330	4.97	N
12	11004 Mesquite Flat	03/09/2007	0950	1.72	423.5	330	4.47	N
12	11004 Mesquite Flat	03/09/2007	1639	1.82	395.5	330	4.86	N
12	11004 Mesquite Flat	03/10/2007	0920	1.76	422.5	330	4.95	N
12	11004 Mesquite Flat	03/10/2007	1430	1.77	418	330	5.01	N
12	11004 Mesquite Flat	03/11/2007	1010	2.34	404.5	330	5.17	N
12	11004 Mesquite Flat	03/11/2007	1520	2.06	427.5	330	5.69	N
12	11004 Mesquite Flat	03/12/2007	0935	1.52	410.5	330	4.51	N
12	11004 Mesquite Flat	03/12/2007	1544	1.6	395.5	330	4.68	N
12	11004 Mesquite Flat	03/13/2007	1145	2.14	370.5	330	6.09	N
12	11004 Mesquite Flat	03/13/2007	1705	1.97	427.5	330	5.4	N
12	11004 Mesquite Flat	03/14/2007	1006	2.05	433	330	4.46	N
12	11004 Mesquite Flat	03/14/2007	1430	2.01	404.5	330	5.54	N
12	11004 Mesquite Flat	03/14/2007	1515	2.12	393	330	5.04	N
12	11004 Mesquite Flat	03/15/2007	0920	1.44	411	360	3.9	N
12	11004 Mesquite Flat	03/15/2007	1609	1.68	389.5	330	4.73	N
12	11004 Mesquite Flat	03/16/2007	0853	1.86	408	360	4.56	N
12	11004 Mesquite Flat	03/16/2007	1604	1.6	370	330	3.61	N
12	11004 Mesquite Flat	03/17/2007	0831	2.45	393.5	330	6.08	N
12	11004 Mesquite Flat	03/17/2007	1600	2.36	370	330	5.13	N
12	11004 Mesquite Flat	03/18/2007	0828	2.31	370.5	330	6.58	N
12	11004 Mesquite Flat	03/18/2007	1427	2.23	375.5	300	5.16	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
12	11004 Mesquite Flat	03/19/2007	0925	1.49	399	330	3.84	N
12	11004 Mesquite Flat	03/19/2007	1625	1.83	388	330	5.14	N
12	11004 Mesquite Flat	03/20/2007	1015	2.2	395.5	330	5.35	N
12	11004 Mesquite Flat	03/20/2007	1604	2.14	399	330	4.54	N
12	11004 Mesquite Flat	03/21/2007	0900	2.22	406	330	4.86	N
12	11004 Mesquite Flat	03/21/2007	1601	1.91	406	330	3.85	N
12	11004 Mesquite Flat	03/22/2007	0845	1.93	388	330	5.02	N
12	11004 Mesquite Flat	03/22/2007	1705	1.87	388	330	4.43	N
12	11004 Mesquite Flat	03/23/2007	0915	2.64	422.5	330	6.7	N
12	11004 Mesquite Flat	03/23/2007	1555	2.23	438	330	4.57	N
12	11004 Mesquite Flat	03/24/2007	0945	2.02	423	330	5.68	N
12	11004 Mesquite Flat	03/24/2007	1330	2.08	404.5	330	4.47	N
12	11004 Mesquite Flat	03/25/2007	0948	2.35	389.5	330	5.77	N
12	11004 Mesquite Flat	03/25/2007	1420	2.13	415.5	330	5.97	N
12	11004 Mesquite Flat	03/26/2007	0955	2.51	370.5	330	5.49	N
12	11004 Mesquite Flat	03/27/2007	1109	1.96	399	330	4.3	N
12	11004 Mesquite Flat	03/28/2007	1056	1.22	422.5	330	3.53	N
12	11004 Mesquite Flat	03/29/2007	1120	2.37	388	330	4.8	N
12	11004 Mesquite Flat	03/30/2007	1445	2.31	433	330	4.97	N
12	11004 Mesquite Flat	03/31/2007	1131	2.43	370.5	330	5.83	N
12	11004 Mesquite Flat	04/01/2007	1552	2.13	371	330	3.97	N
12	11004 Mesquite Flat	04/02/2007	1105	2.08	399	330	4.43	N
12	11004 Mesquite Flat	04/03/2007	1244	2.37	393.5	330	5.27	N
12	11004 Mesquite Flat	04/04/2007	1134	2.2	371.5	330	4.58	N
12	11004 Mesquite Flat	04/05/2007	1155	1.9	388	330	4.51	N
12	11004 Mesquite Flat	04/06/2007	1149	1.87	443	330	4.17	N
12	11004 Mesquite Flat	04/09/2007	1445	1.87	372	330	9.29	N
13	9944 Leslie Rd.	01/13/2007	1415	1.21	462	370	9.91	Y
13	9944 Leslie Rd.	01/18/2007	1445	2.17	360	320	6.5	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
13	9944 Leslie Rd.	01/24/2007	1325	2.84	370	310	9.2	Y
13	9944 Leslie Rd.	01/25/2007	1420	2.15	387	320	7.29	N
13	9944 Leslie Rd.	01/26/2007	1558	1.15	385	340	5.82	N
13	9944 Leslie Rd.	01/27/2007	1531	1.71	418	300	9.28	Y
13	9944 Leslie Rd.	01/29/2007	1225	2.04	418.5	320	6.25	N
13	9944 Leslie Rd.	01/30/2007	1405	2.42	367.5	320	7.95	N
13	9944 Leslie Rd.	02/01/2007	0835	1.66	387.5	320	5.13	N
13	9944 Leslie Rd.	02/02/2007	1030	1.78	394.5	310	8.26	Y
13	9944 Leslie Rd.	02/05/2007	1425	1.88	378	320	6.71	N
13	9944 Leslie Rd.	02/06/2007	1345	1.2	410	320	4.64	N
13	9944 Leslie Rd.	02/07/2007	1640	1.59	423	330	5.17	N
13	9944 Leslie Rd.	02/08/2007	1435	3.59	438.5	350	12.07	Y
13	9944 Leslie Rd.	02/09/2007	1510	2.42	410.5	320	7.07	N
13	9944 Leslie Rd.	02/12/2007	1211	1.23	402	320	5.73	N
13	9944 Leslie Rd.	02/12/2007	1645	2.01	398	320	6.55	N
13	9944 Leslie Rd.	02/13/2007	1030	1.07	391.5	320	5.43	N
13	9944 Leslie Rd.	02/13/2007	1505	2.01	383	320	8.71	Y
13	9944 Leslie Rd.	02/14/2007	1142	3.27	371	310	12.06	Y
13	9944 Leslie Rd.	02/14/2007	1508	2.12	419.5	320	6.05	N
13	9944 Leslie Rd.	02/15/2007	1010	6.63	382.5	320	5.05	N
13	9944 Leslie Rd.	02/15/2007	1440	10.08	412.5	320	5.21	N
13	9944 Leslie Rd.	02/16/2007	1215	7.73	419.5	350	3.77	N
13	9944 Leslie Rd.	02/16/2007	1450	9.71	406	330	4.1	N
13	9944 Leslie Rd.	02/19/2007	1010	2.1	396.5	310	5.76	N
13	9944 Leslie Rd.	02/19/2007	1340	2.12	410.5	320	6.03	N
13	9944 Leslie Rd.	02/20/2007	0850	1.71	395.5	330	4.92	N
13	9944 Leslie Rd.	02/20/2007	1320	1.61	370	330	4.85	N
13	9944 Leslie Rd.	02/21/2007	0915	1.68	423	330	4.38	N
13	9944 Leslie Rd.	02/22/2007	0905	0.89	370.5	330	4.64	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
13	9944 Leslie Rd.	02/22/2007	0905	1.29	418	330	3.95	N
13	9944 Leslie Rd.	02/23/2007	0905	1.18	405.5	360	3.67	N
13	9944 Leslie Rd.	02/23/2007	1409	1.03	399	330	3.71	N
13	9944 Leslie Rd.	02/24/2007	1055	2.1	389.5	330	5.36	N
13	9944 Leslie Rd.	02/26/2007	1250	1.89	415.5	330	5.27	N
13	9944 Leslie Rd.	02/26/2007	1706	1.01	404.5	330	3.72	N
13	9944 Leslie Rd.	02/27/2007	1145	2.15	407	330	5.68	N
13	9944 Leslie Rd.	02/27/2007	1715	1.38	381.5	330	4.25	N
13	9944 Leslie Rd.	02/28/2007	0937	2.01	389.5	330	4.98	N
13	9944 Leslie Rd.	02/28/2007	1632	2.08	423	330	5.6	N
13	9944 Leslie Rd.	03/01/2007	1002	2.44	394	330	6.41	N
13	9944 Leslie Rd.	03/01/2007	1502	1.97	370.5	330	5.14	N
13	9944 Leslie Rd.	03/02/2007	1128	2.2	371	330	6.24	N
13	9944 Leslie Rd.	03/03/2007	1009	2.29	371	330	4.82	N
13	9944 Leslie Rd.	03/05/2007	1146	1.36	407.5	360	4.68	N
13	9944 Leslie Rd.	03/05/2007	1450	1.65	387.5	330	4.43	N
13	9944 Leslie Rd.	03/06/2007	1140	1.45	383	330	3.7	N
13	9944 Leslie Rd.	03/06/2007	1610	1.82	422.5	330	4.95	N
13	9944 Leslie Rd.	03/07/2007	1228	1.45	408	360	4.41	N
13	9944 Leslie Rd.	03/07/2007	1604	1.54	415	330	3.8	N
13	9944 Leslie Rd.	03/08/2007	1315	1.96	389.5	330	5.19	N
13	9944 Leslie Rd.	03/08/2007	1630	1.61	406.5	330	4.91	N
13	9944 Leslie Rd.	03/09/2007	1145	1.62	433	330	4.39	N
13	9944 Leslie Rd.	03/09/2007	1545	1.43	410	330	4.02	N
13	9944 Leslie Rd.	03/12/2007	1220	1.63	407	330	4.35	N
13	9944 Leslie Rd.	03/12/2007	1445	1.65	405.5	330	4.32	N
13	9944 Leslie Rd.	03/13/2007	1158	2.15	406	330	4.87	N
13	9944 Leslie Rd.	03/13/2007	1444	2.22	396	330	4.91	N
13	9944 Leslie Rd.	03/14/2007	1217	1.47	423.5	330	3.67	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
13	9944 Leslie Rd.	03/14/2007	1450	1.33	408	360	4.43	N
13	9944 Leslie Rd.	03/15/2007	1149	1.52	410.5	300	3.91	N
13	9944 Leslie Rd.	03/15/2007	1455	1.38	388	330	4.52	N
13	9944 Leslie Rd.	03/15/2007	1500	1.86	389.5	330	4.63	N
13	9944 Leslie Rd.	03/16/2007	1206	2.25	370	330	6.04	N
13	9944 Leslie Rd.	03/16/2007	1421	2.12	396	330	4.98	N
13	9944 Leslie Rd.	03/19/2007	1145	1.68	371	330	4.82	N
13	9944 Leslie Rd.	03/19/2007	1605	1.66	383	330	4.29	N
13	9944 Leslie Rd.	03/20/2007	1130	2.28	411.5	330	4.5	N
13	9944 Leslie Rd.	03/20/2007	1135	2.5	388	330	5.93	N
13	9944 Leslie Rd.	03/21/2007	1130	1.98	404.5	330	4.02	N
13	9944 Leslie Rd.	03/21/2007	1545	2.14	393	330	4.41	N
13	9944 Leslie Rd.	03/22/2007	1145	2.06	408	360	4.58	N
13	9944 Leslie Rd.	03/22/2007	1545	1.97	422.5	330	5.05	N
13	9944 Leslie Rd.	03/26/2007	1155	1.98	405.5	360	5.33	N
14	10030 Braun Rd.	01/13/2007	1330	2.86	398	320	8.08	N
14	10030 Braun Rd.	01/19/2007	1555	4.81	418	330	11.67	N
14	10030 Braun Rd.	01/24/2007	1405	3.83	387	320	11.75	N
14	10030 Braun Rd.	01/25/2007	1430	4.45	391	320	12.71	N
14	10030 Braun Rd.	01/26/2007	1511	3.69	423	330	9.96	N
14	10030 Braun Rd.	01/29/2007	1235	2.82	412.5	320	8.5	N
14	10030 Braun Rd.	01/30/2007	1040	5.83	411.5	330	13.8	N
14	10030 Braun Rd.	01/31/2007	0900	2.86	399	330	8.01	N
14	10030 Braun Rd.	02/01/2007	0900	3.63	408	320	10.59	N
14	10030 Braun Rd.	02/02/2007	1045	3.82	372	310	11.07	N
14	10030 Braun Rd.	02/05/2007	1400	3.01	424	330	8.95	N
14	10030 Braun Rd.	02/06/2007	1330	2.01	396.5	320	6.48	N
14	10030 Braun Rd.	02/07/2007	1625	3.64	382	320	10.34	N
14	10030 Braun Rd.	02/09/2007	1458	3.42	387	320	8.73	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
14	10030 Braun Rd.	02/12/2007	1228	4.05	390.5	320	14.52	Y
14	10030 Braun Rd.	02/12/2007	1620	3.3	381.5	320	8.44	N
14	10030 Braun Rd.	02/13/2007	1100	2.44	391	320	8.69	N
14	10030 Braun Rd.	02/13/2007	1530	3.23	374.5	320	10.82	N
14	10030 Braun Rd.	02/14/2007	1127	3.61	399.5	330	9.74	N
14	10030 Braun Rd.	02/14/2007	1458	2.21	399	330	5.8	N
14	10030 Braun Rd.	02/15/2007	1100	5.22	394.5	350	5.62	N
14	10030 Braun Rd.	02/15/2007	1510	2.03	419.5	320	8.4	N
14	10030 Braun Rd.	02/16/2007	1230	3.97	422.5	340	8.34	N
14	10030 Braun Rd.	02/16/2007	1510	0.81	423	330	6.54	N
14	10030 Braun Rd.	02/19/2007	1035	2.67	397	320	9.56	N
14	10030 Braun Rd.	02/19/2007	1400	2.66	406.5	330	8.18	N
14	10030 Braun Rd.	02/20/2007	0910	3.82	388	330	8.17	N
14	10030 Braun Rd.	02/20/2007	1340	3.2	395.5	330	7.54	N
14	10030 Braun Rd.	02/21/2007	0940	4.18	399.5	330	8.97	N
14	10030 Braun Rd.	02/21/2007	1315	1.84	395.5	330	5.29	N
14	10030 Braun Rd.	02/21/2007	1330	3.72	424	330	8.2	N
14	10030 Braun Rd.	02/22/2007	1340	2.54	369.5	300	5.45	N
14	10030 Braun Rd.	02/23/2007	0930	2.96	419	330	6.87	N
14	10030 Braun Rd.	02/23/2007	1348	1.12	406.5	330	4.4	N
14	10030 Braun Rd.	02/26/2007	1230	1.83	445.5	330	4.64	N
14	10030 Braun Rd.	02/26/2007	1647	1.18	370.5	330	4.43	N
14	10030 Braun Rd.	02/27/2007	1315	2.48	422.5	330	6.01	N
14	10030 Braun Rd.	02/27/2007	1637	1.58	408	360	5.58	N
14	10030 Braun Rd.	02/28/2007	1005	4.05	405.5	330	9.38	N
14	10030 Braun Rd.	02/28/2007	1005	3.63	433	330	7.53	N
14	10030 Braun Rd.	03/01/2007	1037	2.67	408	330	6.41	N
14	10030 Braun Rd.	03/01/2007	1510	1.98	410.5	330	5.06	N
14	10030 Braun Rd.	03/02/2007	0000	2.95	385.5	330	6.3	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
14	10030 Braun Rd.	03/02/2007	0000	3.61	395.5	330	8.05	N
14	10030 Braun Rd.	03/05/2007	1128	1.84	404.5	330	4.68	N
14	10030 Braun Rd.	03/05/2007	1419	3.52	407	330	8.09	N
14	10030 Braun Rd.	03/06/2007	1124	2.96	399.5	330	7.45	N
14	10030 Braun Rd.	03/06/2007	1548	2.9	411.5	330	6.86	N
14	10030 Braun Rd.	03/07/2007	1208	1.84	423	330	5.51	N
14	10030 Braun Rd.	03/07/2007	1600	1.8	371	330	4.97	N
14	10030 Braun Rd.	03/08/2007	1300	3.26	388	330	7.44	N
14	10030 Braun Rd.	03/08/2007	1610	3.22	385	330	7.87	N
14	10030 Braun Rd.	03/09/2007	1125	1.51	399	330	4.68	N
14	10030 Braun Rd.	03/09/2007	1531	3.31	408.5	330	7.15	N
14	10030 Braun Rd.	03/12/2007	1159	2.18	423	330	6.43	N
14	10030 Braun Rd.	03/12/2007	1415	2.01	418	330	5.81	N
14	10030 Braun Rd.	03/13/2007	1129	2.37	371.5	300	4.99	N
14	10030 Braun Rd.	03/14/2007	1201	2.37	433	330	6.53	N
14	10030 Braun Rd.	03/14/2007	1247	4.78	391.5	300	9.69	N
14	10030 Braun Rd.	03/14/2007	1420	1.49	370.5	330	4.28	N
14	10030 Braun Rd.	03/16/2007	1143	5.07	415.5	330	9.44	N
14	10030 Braun Rd.	03/16/2007	1300	2.62	430	330	6.54	N
14	10030 Braun Rd.	03/16/2007	1349	3.34	423	330	7.25	N
14	10030 Braun Rd.	03/19/2007	1139	3.68	429	330	7.48	N
14	10030 Braun Rd.	03/20/2007	1120	4.57	412	330	7.88	N
14	10030 Braun Rd.	03/21/2007	1120	3.31	388	330	6.83	N
14	10030 Braun Rd.	03/21/2007	1523	2.33	404.5	330	5.58	N
14	10030 Braun Rd.	03/22/2007	1127	2.95	423.5	330	6.33	N
14	10030 Braun Rd.	03/22/2007	1524	2.35	417.5	330	4.94	N
14	10030 Braun Rd.	03/23/2007	1145	2.8	389.5	330	6.24	N
14	10030 Braun Rd.	03/23/2007	1510	2.56	360.5	300	4.99	N
14	10030 Braun Rd.	03/26/2007	1144	2.81	370	330	5.62	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
14	10030 Braun Rd.	03/27/2007	1000	2.84	370.5	330	6.55	N
14	10030 Braun Rd.	03/28/2007	1035	3.45	406	330	7.12	N
14	10030 Braun Rd.	03/29/2007	1048	4.35	387.5	330	8.14	N
14	10030 Braun Rd.	03/30/2007	1235	2.99	399	330	5.92	N
14	10030 Braun Rd.	04/01/2007	0950	2.58	399.5	330	5.7	N
14	10030 Braun Rd.	04/03/2007	1115	3.76	423	330	7.58	N
14	10030 Braun Rd.	04/04/2007	1006	3.41	406.5	330	6.91	N
14	10030 Braun Rd.	04/05/2007	1056	3.04	413.5	330	6.05	N
14	10030 Braun Rd.	04/09/2007	1225	2.65	372.5	330	8.95	N
15	12951 Bandera Rd.	01/13/2007	1145	0.87	462	360	9.56	N
15	12951 Bandera Rd.	01/18/2007	1355	1.5	443	380	9.19	N
15	12951 Bandera Rd.	01/24/2007	1130	2.34	378	310	8.33	N
15	12951 Bandera Rd.	01/25/2007	1000	1.6	373.5	310	5.32	N
15	12951 Bandera Rd.	01/26/2007	1453	0.82	396.5	310	4.16	N
15	12951 Bandera Rd.	01/27/2007	1454	2.15	379	310	9.36	N
15	12951 Bandera Rd.	01/28/2007	1030	2.03	381.5	310	7.22	N
15	12951 Bandera Rd.	01/29/2007	1015	1.94	392	320	5.43	N
15	12951 Bandera Rd.	01/30/2007	1310	2.91	396.5	310	11.97	N
15	12951 Bandera Rd.	01/31/2007	1100	2.09	409.5	310	12.12	N
15	12951 Bandera Rd.	02/01/2007	1105	2.23	418	310	6.65	N
15	12951 Bandera Rd.	02/02/2007	1250	1.04	410.5	320	4.73	N
15	12951 Bandera Rd.	02/03/2007	1315	1.15	389.5	320	5.27	N
15	12951 Bandera Rd.	02/04/2007	1125	0.88	394.5	310	4.1	N
15	12951 Bandera Rd.	02/05/2007	1155	2.46	400.5	310	10.89	N
15	12951 Bandera Rd.	02/06/2007	1105	2.41	397	310	13.21	N
15	12951 Bandera Rd.	02/07/2007	1505	3.04	401	310	12.13	N
15	12951 Bandera Rd.	02/08/2007	1110	2.45	433	340	8.3	N
15	12951 Bandera Rd.	02/09/2007	1422	1.9	373.5	310	5.78	N
15	12951 Bandera Rd.	02/10/2007	1120	4.07	419.5	310	21.86	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
15	12951 Bandera Rd.	02/11/2007	1105	1.12	362.5	310	5.38	N
15	12951 Bandera Rd.	02/12/2007	1707	1.11	394	310	5.03	N
15	12951 Bandera Rd.	02/13/2007	1454	1.71	387.5	320	6.72	N
15	12951 Bandera Rd.	02/14/2007	1024	2.38	395	310	10.57	N
15	12951 Bandera Rd.	02/14/2007	1622	2.48	405	310	8.82	N
15	12951 Bandera Rd.	02/15/2007	1025	1.62	384.5	320	6.94	N
15	12951 Bandera Rd.	02/16/2007	1330	0.75	394	310	7.44	N
15	12951 Bandera Rd.	02/16/2007	1557	1.15	418	280	5.05	N
15	12951 Bandera Rd.	02/17/2007	1040	1.02	400.5	310	8.57	N
15	12951 Bandera Rd.	02/17/2007	1530	1.95	394	310	5.86	N
15	12951 Bandera Rd.	02/18/2007	1020	1.22	360	320	5.29	N
15	12951 Bandera Rd.	02/18/2007	1435	2.24	411.5	310	11.49	N
15	12951 Bandera Rd.	02/19/2007	1016	5.06	406	310	30.54	Y
15	12951 Bandera Rd.	02/19/2007	1525	5.38	417	300	36.38	Y
15	12951 Bandera Rd.	02/20/2007	1020	1.44	407	330	4.22	N
15	12951 Bandera Rd.	02/20/2007	1530	1.39	388	330	4.14	N
15	12951 Bandera Rd.	02/21/2007	0935	1.73	399	330	5.13	N
15	12951 Bandera Rd.	02/21/2007	0935	7.38	406.5	300	32.63	Y
15	12951 Bandera Rd.	02/21/2007	0958	1.78	371.5	330	5.81	N
15	12951 Bandera Rd.	02/21/2007	0958	1.4	462	370	9.77	N
15	12951 Bandera Rd.	02/21/2007	1520	1.63	395.5	330	4.54	N
15	12951 Bandera Rd.	02/22/2007	1554	2.67	389.5	330	7.	N
15	12951 Bandera Rd.	02/23/2007	1105	1.01	370.5	330	4.41	N
15	12951 Bandera Rd.	02/23/2007	1609	0.99	388	330	4.11	N
15	12951 Bandera Rd.	02/24/2007	0918	3.59	410	300	12.42	N
15	12951 Bandera Rd.	02/24/2007	1415	4.49	422.5	300	17.44	Y
15	12951 Bandera Rd.	02/25/2007	0930	1.28	363	300	3.69	N
15	12951 Bandera Rd.	02/25/2007	1407	3.02	398.5	300	7.71	N
15	12951 Bandera Rd.	02/26/2007	1310	1.21	424	330	4.06	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
15	12951 Bandera Rd.	02/26/2007	1539	1.7	370.5	330	5.88	N
15	12951 Bandera Rd.	02/27/2007	1117	3.46	405.5	300	13.35	N
15	12951 Bandera Rd.	02/27/2007	1543	0.86	403	360	3.49	N
15	12951 Bandera Rd.	02/28/2007	1106	2.87	400.5	300	7.31	N
15	12951 Bandera Rd.	03/01/2007	1134	1.34	423	330	3.53	N
15	12951 Bandera Rd.	03/01/2007	1522	1.4	428	330	3.91	N
15	12951 Bandera Rd.	03/02/2007	1120	1.5	395.5	330	4.13	N
15	12951 Bandera Rd.	03/02/2007	1555	1.47	408	360	4.19	N
15	12951 Bandera Rd.	03/03/2007	0905	2.11	407	330	4.49	N
15	12951 Bandera Rd.	03/03/2007	1259	2.21	393.5	330	4.8	N
15	12951 Bandera Rd.	03/04/2007	1025	2.11	370.5	330	5.26	N
15	12951 Bandera Rd.	03/04/2007	1638	1.58	370.5	330	4.03	N
15	12951 Bandera Rd.	03/05/2007	1221	1.57	388	330	4.73	N
15	12951 Bandera Rd.	03/05/2007	1507	1.64	408.5	330	4.49	N
15	12951 Bandera Rd.	03/06/2007	1120	1.15	406.5	330	3.31	N
15	12951 Bandera Rd.	03/06/2007	1400	1.25	414	300	3.49	N
15	12951 Bandera Rd.	03/07/2007	1249	1.47	404	330	4.39	N
15	12951 Bandera Rd.	03/07/2007	1510	1.14	380.5	300	3.3	N
15	12951 Bandera Rd.	03/08/2007	1119	1.33	399.5	330	3.71	N
15	12951 Bandera Rd.	03/08/2007	1650	1.42	389.5	330	3.93	N
15	12951 Bandera Rd.	03/09/2007	1055	1.19	370.5	330	4.25	N
15	12951 Bandera Rd.	03/09/2007	1609	1.26	422.5	330	4.3	N
15	12951 Bandera Rd.	03/10/2007	1029	1.19	370.5	330	3.75	N
15	12951 Bandera Rd.	03/10/2007	1355	1.36	370	330	4.61	N
15	12951 Bandera Rd.	03/11/2007	1120	1.63	407	330	3.82	N
15	12951 Bandera Rd.	03/11/2007	1455	1.89	422.5	330	5.13	N
15	12951 Bandera Rd.	03/12/2007	1200	1.06	423	330	3.41	N
15	12951 Bandera Rd.	03/12/2007	1525	1.83	396	330	5.43	N
15	12951 Bandera Rd.	03/13/2007	1245	2.05	370.5	330	5.66	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
15	12951 Bandera Rd.	03/13/2007	1550	1.76	393	330	4.02	N
15	12951 Bandera Rd.	03/14/2007	1138	1.21	371.5	330	3.45	N
15	12951 Bandera Rd.	03/14/2007	1625	0.99	428	330	2.81	N
15	12951 Bandera Rd.	03/15/2007	1301	1.15	388	330	3.45	N
15	12951 Bandera Rd.	03/15/2007	1600	1.78	410.5	360	5.24	N
15	12951 Bandera Rd.	03/16/2007	1030	1.68	418	330	3.64	N
15	12951 Bandera Rd.	03/16/2007	1035	1.08	408	360	4.21	N
15	12951 Bandera Rd.	03/16/2007	1418	1.87	408	360	4.16	N
15	12951 Bandera Rd.	03/17/2007	0810	2.03	411	300	4.93	N
15	12951 Bandera Rd.	03/17/2007	1333	2.21	388	300	4.94	N
15	12951 Bandera Rd.	03/18/2007	0957	1.82	388	330	4.46	N
15	12951 Bandera Rd.	03/18/2007	1415	2.13	383	300	5.03	N
15	12951 Bandera Rd.	03/19/2007	1045	1.31	371	330	4.42	N
15	12951 Bandera Rd.	03/19/2007	1440	1.3	370.5	330	4.54	N
15	12951 Bandera Rd.	03/20/2007	1155	2.38	405	330	5.13	N
15	12951 Bandera Rd.	03/20/2007	1540	2.04	406.5	330	4.97	N
15	12951 Bandera Rd.	03/21/2007	1015	1.94	385.5	330	3.98	N
15	12951 Bandera Rd.	03/21/2007	1420	2.07	433.5	330	5.12	N
15	12951 Bandera Rd.	03/22/2007	1015	1.9	405.5	360	3.81	N
15	12951 Bandera Rd.	03/22/2007	1645	1.61	424	330	3.74	N
15	12951 Bandera Rd.	03/23/2007	1215	2.04	393.5	330	4.42	N
15	12951 Bandera Rd.	03/23/2007	1520	2.2	371	330	5.24	N
15	12951 Bandera Rd.	03/24/2007	0900	1.87	415.5	300	5.01	N
15	12951 Bandera Rd.	03/24/2007	1303	1.88	404.5	330	4.56	N
15	12951 Bandera Rd.	03/25/2007	1040	1.99	406	330	4.48	N
15	12951 Bandera Rd.	03/25/2007	1327	2.1	404.5	330	5.5	N
15	12951 Bandera Rd.	03/26/2007	1040	2.13	392	330	4.73	N
15	12951 Bandera Rd.	03/26/2007	1355	2.11	370.5	330	5.32	N
15	12951 Bandera Rd.	03/27/2007	0759	2.4	405.5	300	5.04	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
15	12951 Bandera Rd.	03/28/2007	1035	1.42	424.5	330	3.51	N
15	12951 Bandera Rd.	03/29/2007	0720	2.12	343.5	300	4.01	N
15	12951 Bandera Rd.	03/30/2007	0835	1.85	370.5	330	4.45	N
15	12951 Bandera Rd.	03/31/2007	1412	1.91	370.5	330	4.91	N
15	12951 Bandera Rd.	04/01/2007	1435	1.82	423	330	4.38	N
15	12951 Bandera Rd.	04/02/2007	0821	1.89	370	330	3.94	N
15	12951 Bandera Rd.	04/03/2007	0824	2.06	407.5	360	5.31	N
15	12951 Bandera Rd.	04/04/2007	0810	1.88	362.5	300	4.82	N
15	12951 Bandera Rd.	04/05/2007	0815	1.83	423	330	4.62	N
15	12951 Bandera Rd.	04/06/2007	0759	1.6	412.5	360	3.94	N
15	12951 Bandera Rd.	04/09/2007	1306	2.74	371	330	11.28	N
16	11125 FM 1560N	01/26/2007	1426	7.51	426.5	330	18.68	Y
16	11125 FM 1560N	01/28/2007	1445	6.14	404.5	330	14.73	N
16	11125 FM 1560N	01/29/2007	1350	6.56	429.5	330	14.67	N
16	11125 FM 1560N	01/30/2007	1045	7.5	432	330	16.95	Y
16	11125 FM 1560N	01/30/2007	1115	6.54	418	320	15.87	Y
16	11125 FM 1560N	02/01/2007	0955	4.45	439	330	10.67	N
16	11125 FM 1560N	02/02/2007	1140	3.87	422	330	11.17	N
17	11762 FM 1560N	01/24/2007	0935	6.33	430	340	14.02	N
17	11762 FM 1560N	01/25/2007	0925	9.01	437	340	18.43	Y
17	11762 FM 1560N	01/26/2007	1435	8.04	419.5	340	19.65	Y
17	11762 FM 1560N	01/28/2007	0950	6.7	419	340	15.91	Y
17	11762 FM 1560N	01/30/2007	1038	7.45	425	330	17.36	Y
17	11762 FM 1560N	01/31/2007	1015	5.68	418	330	13.85	N
17	11762 FM 1560N	02/01/2007	1020	4.63	429	340	11.77	N
17	11762 FM 1560N	02/02/2007	1210	4.09	424	330	11.05	N
17	11762 FM 1560N	02/03/2007	1240	3.49	438	330	9.85	N
17	11762 FM 1560N	02/04/2007	1005	3.36	433.5	340	8.84	N
17	11762 FM 1560N	02/05/2007	1320	3.76	405	320	9.19	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
17	11762 FM 1560N	02/06/2007	1015	3.47	400	320	9.8	N
17	11762 FM 1560N	02/07/2007	1442	5.31	387	320	14.78	Y
17	11762 FM 1560N	02/08/2007	1049	24.7	429	350	89.85	Y
17	11762 FM 1560N	02/08/2007	1049	24.14	438	350	89.02	Y
17	11762 FM 1560N	02/09/2007	1358	4.08	420	320	9.46	N
17	11762 FM 1560N	02/10/2007	1100	3.25	412.5	320	8.16	N
17	11762 FM 1560N	02/12/2007	1003	2.45	410.5	320	6.94	N
17	11762 FM 1560N	02/12/2007	1630	2.8	429	340	8.18	N
17	11762 FM 1560N	02/13/2007	0932	2.48	405	320	7.62	N
17	11762 FM 1560N	02/13/2007	1643	3.1	407	330	9.22	N
17	11762 FM 1560N	02/14/2007	1002	2.74	418	330	7.81	N
17	11762 FM 1560N	02/15/2007	1053	4.51	389.5	320	11.54	N
17	11762 FM 1560N	02/16/2007	1130	1.01	407	330	6.76	N
17	11762 FM 1560N	02/16/2007	1610	1.85	399	330	6.7	N
17	11762 FM 1560N	02/17/2007	1130	1.06	419.5	320	6.76	N
17	11762 FM 1560N	02/17/2007	1415	3.36	413	340	5.73	N
17	11762 FM 1560N	02/18/2007	1000	2.35	391	320	7.08	N
17	11762 FM 1560N	02/18/2007	1420	2.15	423.5	330	6.44	N
17	11762 FM 1560N	02/19/2007	0930	3.3	387.5	320	9.28	N
17	11762 FM 1560N	02/19/2007	1420	2.97	424.5	340	7.47	N
17	11762 FM 1560N	02/20/2007	0925	2.71	410.5	330	6.72	N
17	11762 FM 1560N	02/20/2007	1410	2.87	423	330	6.29	N
17	11762 FM 1560N	02/21/2007	1034	2.91	404.5	330	6.44	N
17	11762 FM 1560N	02/21/2007	1405	2.74	407.5	330	6.51	N
17	11762 FM 1560N	02/22/2007	1010	4.08	400.5	300	8.95	N
17	11762 FM 1560N	02/23/2007	1030	2.57	415	330	6.47	N
17	11762 FM 1560N	02/23/2007	1030	3.2	415	330	8.1	N
17	11762 FM 1560N	02/24/2007	0933	5.62	394	330	12.65	N
17	11762 FM 1560N	02/24/2007	1345	7.13	405.5	330	14.77	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
17	11762 FM 1560N	02/25/2007	0929	6.71	407	330	14.41	N
17	11762 FM 1560N	02/25/2007	1343	7.01	408	330	13.88	N
17	11762 FM 1560N	02/26/2007	1030	5.73	433	330	13.04	N
17	11762 FM 1560N	02/26/2007	1451	5.38	395.5	330	11.16	N
17	11762 FM 1560N	02/27/2007	1045	4.72	425.5	330	10.78	N
17	11762 FM 1560N	02/27/2007	1513	5.07	422	330	11.22	N
17	11762 FM 1560N	02/28/2007	1021	7	415	330	14.74	N
17	11762 FM 1560N	02/28/2007	1413	7.56	407	330	15.8	Y
17	11762 FM 1560N	03/01/2007	1108	7.36	415.5	330	15.67	Y
17	11762 FM 1560N	03/01/2007	1438	7.4	415.5	330	16.43	Y
17	11762 FM 1560N	03/02/2007	0805	11.47	405.5	330	25.08	Y
17	11762 FM 1560N	03/02/2007	1245	10.45	430.5	330	23.44	Y
17	11762 FM 1560N	03/03/2007	0920	14.31	417	330	30.85	Y
17	11762 FM 1560N	03/03/2007	1247	19.13	427.5	330	42.08	Y
17	11762 FM 1560N	03/04/2007	1127	23.73	419	330	49.86	Y
17	11762 FM 1560N	03/04/2007	1127	19.3	423	330	49.14	Y
17	11762 FM 1560N	03/04/2007	1315	24.41	413	330	52.97	Y
17	11762 FM 1560N	03/04/2007	1315	19.78	420	320	51.49	Y
17	11762 FM 1560N	03/04/2007	1611	18.68	413	330	46.04	Y
17	11762 FM 1560N	03/04/2007	1611	23.03	431.5	330	50.46	Y
17	11762 FM 1560N	03/05/2007	1020	22.7	423	330	48.86	Y
17	11762 FM 1560N	03/05/2007	1359	18.74	412	320	44.21	Y
17	11762 FM 1560N	03/05/2007	1359	22.22	418	330	48.24	Y
17	11762 FM 1560N	03/05/2007	1500	20.28	431.5	330	42.1	Y
17	11762 FM 1560N	03/06/2007	0956	17.82	414	330	40.73	Y
17	11762 FM 1560N	03/06/2007	0956	20.54	428.5	330	40.58	Y
17	11762 FM 1560N	03/06/2007	1430	19.28	411	330	39.22	Y
17	11762 FM 1560N	03/06/2007	1430	17.23	422.5	330	40.22	Y
17	11762 FM 1560N	03/07/2007	0938	18.1	418	330	38.27	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
17	11762 FM 1560N	03/07/2007	0938	16.52	427.5	320	35.55	Y
17	11762 FM 1560N	03/07/2007	1630	16.91	420.5	330	33.05	Y
17	11762 FM 1560N	03/07/2007	1630	14.7	422.5	330	33.19	Y
17	11762 FM 1560N	03/08/2007	1058	15.31	407	330	34.9	Y
17	11762 FM 1560N	03/08/2007	1058	16.57	437	330	31.94	Y
17	11762 FM 1560N	03/08/2007	1540	13.65	422.5	330	29.59	Y
17	11762 FM 1560N	03/08/2007	1540	12.84	434.5	320	31.81	Y
17	11762 FM 1560N	03/09/2007	1025	10.93	412	320	27.54	Y
17	11762 FM 1560N	03/09/2007	1025	11.38	423	330	25.91	Y
17	11762 FM 1560N	03/09/2007	1541	11.42	424	330	23.18	Y
17	11762 FM 1560N	03/09/2007	1541	10.55	429	330	24.98	Y
17	11762 FM 1560N	03/10/2007	1000	10.05	415	330	19.25	Y
17	11762 FM 1560N	03/10/2007	1000	9.55	415.5	330	20.35	Y
17	11762 FM 1560N	03/10/2007	1455	9.65	423.5	330	19.5	Y
17	11762 FM 1560N	03/10/2007	1455	8.82	425	330	19.55	Y
17	11762 FM 1560N	03/11/2007	1050	8.72	424.5	330	19.6	Y
17	11762 FM 1560N	03/11/2007	1050	9.55	430	330	18.8	Y
17	11762 FM 1560N	03/11/2007	1310	7.4	399	330	17.01	Y
17	11762 FM 1560N	03/11/2007	1310	8.67	415.5	330	17.67	Y
17	11762 FM 1560N	03/12/2007	1055	11	423	330	23.31	Y
17	11762 FM 1560N	03/12/2007	1055	9.67	428	320	22.38	Y
17	11762 FM 1560N	03/12/2007	1140	9.95	407.5	330	20.3	Y
17	11762 FM 1560N	03/12/2007	1140	8.84	419.5	320	21.65	Y
17	11762 FM 1560N	03/12/2007	1630	10.65	435.5	340	21.9	Y
17	11762 FM 1560N	03/12/2007	1630	11.39	439	330	21.86	Y
17	11762 FM 1560N	03/13/2007	1040	13.88	432.5	330	26.46	Y
17	11762 FM 1560N	03/13/2007	1040	11.74	438	340	28.33	Y
17	11762 FM 1560N	03/13/2007	1155	13.6	439	330	26.36	Y
17	11762 FM 1560N	03/13/2007	1620	12.43	439	330	23.93	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
17	11762 FM 1560N	03/13/2007	1640	10.78	429	350	24.51	Y
17	11762 FM 1560N	03/14/2007	1105	15.27	431.5	340	32.81	Y
17	11762 FM 1560N	03/14/2007	1105	18.06	433	330	34.54	Y
17	11762 FM 1560N	03/14/2007	1320	16.09	428	330	29.75	Y
17	11762 FM 1560N	03/14/2007	1405	17.32	439	330	31.34	Y
17	11762 FM 1560N	03/15/2007	0500	14.79	441.5	330	28.1	Y
17	11762 FM 1560N	03/15/2007	0925	14.68	433	330	29.04	Y
17	11762 FM 1560N	03/15/2007	0952	9.35	430.5	350	21.46	Y
17	11762 FM 1560N	03/15/2007	1215	14.72	440.5	330	28.48	Y
17	11762 FM 1560N	03/16/2007	0940	12.75	430.5	330	24.95	Y
17	11762 FM 1560N	03/16/2007	0940	10.92	437	330	25.98	Y
17	11762 FM 1560N	03/16/2007	1337	12.5	437.5	330	24.78	Y
17	11762 FM 1560N	03/17/2007	1050	11.37	415.5	330	22.42	Y
17	11762 FM 1560N	03/17/2007	1050	10	434	340	22.31	Y
17	11762 FM 1560N	03/17/2007	1527	10.67	415.5	330	21.38	Y
17	11762 FM 1560N	03/18/2007	0930	8.54	422.5	340	19.16	Y
17	11762 FM 1560N	03/18/2007	0930	9.82	438	330	18.71	Y
17	11762 FM 1560N	03/18/2007	1448	9.5	424	330	17.63	Y
17	11762 FM 1560N	03/19/2007	1005	7.92	415.5	330	15.43	Y
17	11762 FM 1560N	03/19/2007	1005	7.14	422.5	330	16.81	Y
17	11762 FM 1560N	03/19/2007	1030	8.48	404.5	330	16.29	Y
17	11762 FM 1560N	03/19/2007	1350	8.25	423.5	330	16.85	Y
17	11762 FM 1560N	03/20/2007	1130	6.67	422.5	330	14.8	N
17	11762 FM 1560N	03/20/2007	1130	7.77	433.5	330	14.88	N
17	11762 FM 1560N	03/20/2007	1530	8.23	434	330	15.71	Y
17	11762 FM 1560N	03/21/2007	0955	7.18	430.5	330	13.23	N
17	11762 FM 1560N	03/21/2007	0955	5.41	444.5	350	13.06	N
17	11762 FM 1560N	03/22/2007	0950	6.22	452.5	360	11.63	N
17	11762 FM 1560N	03/22/2007	1415	6.49	418	330	12.8	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
17	11762 FM 1560N	03/23/2007	1315	7.01	410.5	330	18.75	Y
17	11762 FM 1560N	03/23/2007	1315	8.63	415	330	17.22	Y
17	11762 FM 1560N	03/23/2007	1630	8.77	423	330	18.11	Y
17	11762 FM 1560N	03/24/2007	1020	8.77	412	330	16.78	Y
17	11762 FM 1560N	03/24/2007	1020	7.27	423	330	16.75	N
17	11762 FM 1560N	03/24/2007	1415	7.97	411.5	330	16.46	N
17	11762 FM 1560N	03/25/2007	1023	7.08	407	330	16.46	N
17	11762 FM 1560N	03/25/2007	1023	8.41	432.5	330	16.24	N
17	11762 FM 1560N	03/25/2007	1525	8.76	395.5	330	17.77	Y
17	11762 FM 1560N	03/26/2007	1015	6.92	408	330	12.94	N
17	11762 FM 1560N	03/27/2007	0849	5.71	422	330	11.26	N
17	11762 FM 1560N	03/28/2007	0925	5.56	418	330	11.46	N
17	11762 FM 1560N	03/29/2007	0920	7.46	414	330	15.75	N
17	11762 FM 1560N	03/29/2007	0920	8.24	427	330	16.09	N
17	11762 FM 1560N	03/30/2007	0930	7.21	422	330	14.67	N
17	11762 FM 1560N	03/30/2007	0930	5.89	437.5	340	14.93	N
17	11762 FM 1560N	03/31/2007	1315	6.2	432.5	340	15.65	N
17	11762 FM 1560N	03/31/2007	1315	7.3	437.5	330	14.86	N
17	11762 FM 1560N	04/01/2007	1516	6.84	424.5	330	13.16	N
17	11762 FM 1560N	04/02/2007	0853	9.02	429	330	17.	Y
17	11762 FM 1560N	04/03/2007	0959	7.95	417.5	330	15.18	N
17	11762 FM 1560N	04/03/2007	0959	6.92	447	340	15.15	N
17	11762 FM 1560N	04/04/2007	0859	7.1	424	330	14.36	N
17	11762 FM 1560N	04/05/2007	0920	6.94	422.5	330	13.46	N
17	11762 FM 1560N	04/06/2007	0741	5.77	429.5	330	11.2	N
17	11762 FM 1560N	04/09/2007	1332	6.06	373.5	330	12.22	N
17	11762 FM 1560N	04/09/2007	1332	4.87	417.5	350	11.22	N
17	11762 FM 1560N	05/14/2007	1155		0	0	.	N
19	8324 South Verde Dr.	01/19/2007	1435	10.04	420	320	18.25	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
17	11762 FM 1560N	03/23/2007	1315	7.01	410.5	330	18.75	Y
17	11762 FM 1560N	03/23/2007	1315	8.63	415	330	17.22	Y
17	11762 FM 1560N	03/23/2007	1630	8.77	423	330	18.11	Y
17	11762 FM 1560N	03/24/2007	1020	8.77	412	330	16.78	Y
17	11762 FM 1560N	03/24/2007	1020	7.27	423	330	16.75	N
17	11762 FM 1560N	03/24/2007	1415	7.97	411.5	330	16.46	N
17	11762 FM 1560N	03/25/2007	1023	7.08	407	330	16.46	N
17	11762 FM 1560N	03/25/2007	1023	8.41	432.5	330	16.24	N
17	11762 FM 1560N	03/25/2007	1525	8.76	395.5	330	17.77	Y
17	11762 FM 1560N	03/26/2007	1015	6.92	408	330	12.94	N
17	11762 FM 1560N	03/27/2007	0849	5.71	422	330	11.26	N
17	11762 FM 1560N	03/28/2007	0925	5.56	418	330	11.46	N
17	11762 FM 1560N	03/29/2007	0920	7.46	414	330	15.75	N
17	11762 FM 1560N	03/29/2007	0920	8.24	427	330	16.09	N
17	11762 FM 1560N	03/30/2007	0930	7.21	422	330	14.67	N
17	11762 FM 1560N	03/30/2007	0930	5.89	437.5	340	14.93	N
17	11762 FM 1560N	03/31/2007	1315	6.2	432.5	340	15.65	N
17	11762 FM 1560N	03/31/2007	1315	7.3	437.5	330	14.86	N
17	11762 FM 1560N	04/01/2007	1516	6.84	424.5	330	13.16	N
17	11762 FM 1560N	04/02/2007	0853	9.02	429	330	17.	Y
17	11762 FM 1560N	04/03/2007	0959	7.95	417.5	330	15.18	N
17	11762 FM 1560N	04/03/2007	0959	6.92	447	340	15.15	N
17	11762 FM 1560N	04/04/2007	0859	7.1	424	330	14.36	N
17	11762 FM 1560N	04/05/2007	0920	6.94	422.5	330	13.46	N
17	11762 FM 1560N	04/06/2007	0741	5.77	429.5	330	11.2	N
17	11762 FM 1560N	04/09/2007	1332	6.06	373.5	330	12.22	N
17	11762 FM 1560N	04/09/2007	1332	4.87	417.5	350	11.22	N
17	11762 FM 1560N	05/14/2007	1155		0	0	.	N
19	8324 South Verde Dr.	01/19/2007	1435	10.04	420	320	18.25	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
19	8324 South Verde Dr.	02/11/2007	1138	12.19	402	300	43.29	Y
19	8324 South Verde Dr.	02/11/2007	1200	0.85	384.5	320	10.51	N
19	8324 South Verde Dr.	02/12/2007	1030	4	383	320	9.18	N
19	8324 South Verde Dr.	02/12/2007	1138	6.28	414	300	13.85	N
19	8324 South Verde Dr.	02/12/2007	1200	3.47	413	320	9.	N
19	8324 South Verde Dr.	02/12/2007	1520	3.87	405.5	340	9.2	N
19	8324 South Verde Dr.	02/13/2007	1138	12.06	408	300	43.36	Y
19	8324 South Verde Dr.	02/13/2007	1200	6.9	387.5	320	9.73	N
19	8324 South Verde Dr.	02/15/2007	1200	6.01	402.5	310	32.17	Y
19	8324 South Verde Dr.	02/15/2007	1200	4.4	405	310	21.84	N
19	8324 South Verde Dr.	02/15/2007	1200	4.36	416	310	22.72	N
19	8324 South Verde Dr.	02/15/2007	1200	3.73	416.5	310	25.02	N
19	8324 South Verde Dr.	02/16/2007	1138	5.68	405.5	300	13.87	N
19	8324 South Verde Dr.	02/17/2007	1138	5.24	398	300	9.83	N
19	8324 South Verde Dr.	02/18/2007	1138	4.1	404.5	330	7.96	N
19	8324 South Verde Dr.	02/19/2007	1138	4.5	388	330	10.05	N
19	8324 South Verde Dr.	02/22/2007	1138	17.84	430.5	300	55.37	Y
19	8324 South Verde Dr.	02/23/2007	1138	4.77	403	330	10.27	N
19	8324 South Verde Dr.	03/16/2007	0000	11	428	330	20.46	N
19	8324 South Verde Dr.	03/16/2007	0000	9.27	445.5	350	22.18	Y
20	11033 Baxtershire	01/24/2007	1100	4.42	434	340	10.42	N
20	11033 Baxtershire	01/25/2007	1140	4.67	417	330	11.84	N
20	11033 Baxtershire	01/26/2007	1444	7.61	418	340	18.31	Y
20	11033 Baxtershire	01/28/2007	1145	7.18	422	330	16.89	Y
20	11033 Baxtershire	01/29/2007	1420	6.98	424	330	16.47	Y
20	11033 Baxtershire	01/30/2007	1030	7.87	429.5	340	18.01	Y
20	11033 Baxtershire	01/30/2007	1222	5.76	415	330	13.9	N
20	11033 Baxtershire	01/31/2007	0930	5.01	432.5	330	11.77	N
20	11033 Baxtershire	02/01/2007	0930	4.04	410.5	320	10.2	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
20	11033 Baxtershire	02/02/2007	1110	3.55	432.5	330	9.99	N
20	11033 Baxtershire	02/03/2007	1215	4.45	422.5	330	10.99	N
20	11033 Baxtershire	02/04/2007	1035	3.41	415.5	320	8.29	N
20	11033 Baxtershire	02/05/2007	1345	2.73	422	330	7.6	N
20	11033 Baxtershire	02/06/2007	1440	2.37	422.5	330	7.65	N
20	11033 Baxtershire	03/04/2007	1115	3.18	422.5	330	7.72	N
20	11033 Baxtershire	03/04/2007	1555	3.15	389.5	330	6.84	N
20	11033 Baxtershire	03/05/2007	1225	2.37	410.5	330	5.36	N
20	11033 Baxtershire	03/05/2007	1640	2.31	423	330	5.3	N
20	11033 Baxtershire	03/06/2007	1020	2.5	415	330	5.89	N
20	11033 Baxtershire	03/06/2007	1611	2.37	408	360	5.9	N
20	11033 Baxtershire	03/07/2007	1125	2.02	388	330	5.43	N
20	11033 Baxtershire	03/07/2007	1544	2.32	389.5	330	5.76	N
20	11033 Baxtershire	03/08/2007	1240	2.1	410	330	5.11	N
20	11033 Baxtershire	03/08/2007	1547	2.19	370.5	330	6.06	N
20	11033 Baxtershire	03/09/2007	1146	1.79	418	330	4.71	N
20	11033 Baxtershire	03/09/2007	1515	2.25	415	330	5.44	N
20	11033 Baxtershire	03/10/2007	1045	2.11	388	330	5.13	N
20	11033 Baxtershire	03/10/2007	1502	2.01	438.5	330	4.63	N
20	11033 Baxtershire	03/11/2007	1045	2.47	423	330	5.87	N
20	11033 Baxtershire	03/11/2007	1414	2.11	422.5	330	5.17	N
20	11033 Baxtershire	03/12/2007	1115	2.15	385	330	6.	N
20	11033 Baxtershire	03/12/2007	1345	2.05	423	330	5.45	N
20	11033 Baxtershire	03/13/2007	1056	11.54	425	340	25.44	Y
20	11033 Baxtershire	03/13/2007	1056	13.48	427.5	330	24.99	Y
20	11033 Baxtershire	03/13/2007	1355	14.2	431	330	26.42	Y
20	11033 Baxtershire	03/14/2007	1115	13.23	418	330	26.08	Y
20	11033 Baxtershire	03/14/2007	1115	12.4	434.5	350	28.33	Y
20	11033 Baxtershire	03/14/2007	1325	13.94	424	330	26.19	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
20	11033 Baxtershire	03/15/2007	1049	13.97	422	330	26.74	Y
20	11033 Baxtershire	03/15/2007	1049	9.68	439.5	340	22.77	Y
20	11033 Baxtershire	03/15/2007	1445	14.18	433	330	27.65	Y
20	11033 Baxtershire	03/16/2007	1110	13.19	429.5	330	25.37	Y
20	11033 Baxtershire	03/16/2007	1110	10.99	430	340	24.98	Y
20	11033 Baxtershire	03/16/2007	1331	12.31	429.5	330	24.	Y
20	11033 Baxtershire	03/17/2007	1023	10.4	422.5	330	24.88	Y
20	11033 Baxtershire	03/17/2007	1023	10.91	427	330	21.45	Y
20	11033 Baxtershire	03/17/2007	1426	11.85	433.5	330	24.11	Y
20	11033 Baxtershire	03/18/2007	0954	10.61	430	330	21.18	Y
20	11033 Baxtershire	03/18/2007	0954	9.29	434	330	21.02	Y
20	11033 Baxtershire	03/18/2007	1359	10.88	439.5	330	21.4	Y
20	11033 Baxtershire	03/19/2007	1114	8.75	432.5	330	16.49	Y
20	11033 Baxtershire	03/19/2007	1114	7.83	433	330	18.26	Y
20	11033 Baxtershire	03/19/2007	1516	8.29	426	330	17.22	Y
20	11033 Baxtershire	03/20/2007	1145	7.94	439	330	15.68	N
20	11033 Baxtershire	03/20/2007	1430	8.47	415.5	330	15.92	Y
20	11033 Baxtershire	03/20/2007	1430	6.79	423	330	15.6	N
20	11033 Baxtershire	03/21/2007	1045	7.03	423	330	14.01	N
20	11033 Baxtershire	03/21/2007	1351	6.96	423.5	330	13.77	N
20	11033 Baxtershire	03/22/2007	1059	6.57	424.5	330	12.68	N
20	11033 Baxtershire	03/22/2007	1444	6.43	423	330	13.1	N
20	11033 Baxtershire	03/23/2007	1101	6.41	403.5	330	11.99	N
20	11033 Baxtershire	03/23/2007	1427	6.52	407	330	12.44	N
20	11033 Baxtershire	03/24/2007	1050	6.33	393	330	12.61	N
20	11033 Baxtershire	03/24/2007	1429	6.28	423	330	12.29	N
20	11033 Baxtershire	03/25/2007	1115	6.07	423	330	12.39	N
20	11033 Baxtershire	03/25/2007	1450	5.93	422.5	330	12.	N
20	11033 Baxtershire	03/26/2007	1112	5.75	419	330	11.11	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
20	11033 Baxtershire	03/26/2007	1515	5.41	424	330	10.29	N
20	11033 Baxtershire	03/27/2007	0936	5.31	423	330	10.55	N
20	11033 Baxtershire	03/28/2007	1009	4.11	439.5	330	8.6	N
20	11033 Baxtershire	03/29/2007	1028	8.85	438.5	330	17.21	Y
20	11033 Baxtershire	03/29/2007	1028	8.1	442	350	18.48	Y
20	11033 Baxtershire	03/30/2007	1215	6.61	423	330	15.76	N
20	11033 Baxtershire	03/30/2007	1215	7.73	437.5	330	15.16	N
20	11033 Baxtershire	03/31/2007	1348	7.44	429	330	15.14	N
20	11033 Baxtershire	03/31/2007	1348	6.49	434	340	14.16	N
20	11033 Baxtershire	04/01/2007	1458	10.31	432	330	20.62	Y
20	11033 Baxtershire	04/01/2007	1458	8.36	436	350	19.05	Y
20	11033 Baxtershire	04/02/2007	0935	9.42	423.5	330	18.41	Y
20	11033 Baxtershire	04/02/2007	0935	8.28	429	340	18.58	Y
20	11033 Baxtershire	04/03/2007	1059	7	424.5	350	16.51	Y
20	11033 Baxtershire	04/03/2007	1059	7.87	430.5	330	15.33	N
20	11033 Baxtershire	04/04/2007	0939	7.26	419	330	15.08	N
20	11033 Baxtershire	04/04/2007	0939	6.38	432.5	320	17.69	Y
20	11033 Baxtershire	04/05/2007	1007	6.85	429	330	13.95	N
20	11033 Baxtershire	04/06/2007	0949	5.93	428	330	12.33	N
20	11033 Baxtershire	04/09/2007	1206	5.37	372	330	11.11	N
21	8310 N. Verde Dr.	01/19/2007	1400	10.38	404	310	21.8	Y
21	8310 N. Verde Dr.	01/27/2007	1000	7.27	388.5	330	15.18	Y
21	8310 N. Verde Dr.	01/27/2007	2130	6.81	404	330	13.83	N
21	8310 N. Verde Dr.	01/28/2007	0800	7.06	387.5	320	15.51	Y
21	8310 N. Verde Dr.	01/28/2007	2200	7.33	385	320	14.51	N
21	8310 N. Verde Dr.	01/29/2007	0800	7.79	449	320	14.76	N
21	8310 N. Verde Dr.	01/29/2007	2200	6.74	381.5	320	15.5	Y
21	8310 N. Verde Dr.	01/30/2007	0930	6.35	399.5	330	15.14	Y
21	8310 N. Verde Dr.	01/30/2007	2100	6.73	385	320	14.25	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
21	8310 N. Verde Dr.	01/31/2007	0700	4.64	423.5	330	11.18	N
21	8310 N. Verde Dr.	01/31/2007	2200	9.1	382.5	320	17.01	Y
21	8310 N. Verde Dr.	02/01/2007	0630	5.04	387	320	13.2	N
21	8310 N. Verde Dr.	02/01/2007	2030	6.31	385	320	14.31	N
21	8310 N. Verde Dr.	02/02/2007	0700	4.7	423.5	330	11.89	N
21	8310 N. Verde Dr.	02/05/2007	1300	4.07	384.5	340	10.97	N
21	8310 N. Verde Dr.	02/08/2007	1725	4.32	422	350	9.5	N
21	8310 N. Verde Dr.	02/09/2007	2100	3.43	382.5	320	10.01	N
21	8310 N. Verde Dr.	02/10/2007	0800	3.55	397	320	9.39	N
21	8310 N. Verde Dr.	02/10/2007	1330	5.07	396	330	11.02	N
21	8310 N. Verde Dr.	02/10/2007	2130	2.91	384.5	340	8.69	N
21	8310 N. Verde Dr.	02/11/2007	0900	3.6	385	320	9.57	N
21	8310 N. Verde Dr.	02/11/2007	1830	2.66	405	320	11.04	N
21	8310 N. Verde Dr.	02/12/2007	0700	3.21	394.5	310	10.33	N
21	8310 N. Verde Dr.	02/12/2007	2000	3.3	378.5	320	9.6	N
21	8310 N. Verde Dr.	02/13/2007	0700	3.1	389.5	320	10.2	N
21	8310 N. Verde Dr.	02/13/2007	1000	3.12	387.5	320	8.62	N
21	8310 N. Verde Dr.	02/13/2007	1440	3.01	352	310	8.57	N
21	8310 N. Verde Dr.	02/13/2007	2100	3.23	394.5	320	11.34	N
21	8310 N. Verde Dr.	02/14/2007	0645	3.64	391	320	11.59	N
21	8310 N. Verde Dr.	02/14/2007	1037	3.37	390.5	320	8.26	N
21	8310 N. Verde Dr.	02/14/2007	1458	3.64	382.5	320	10.29	N
21	8310 N. Verde Dr.	02/14/2007	2100	5.23	383	320	12.79	N
21	8310 N. Verde Dr.	02/15/2007	0700	5.23	389.5	320	10.69	N
21	8310 N. Verde Dr.	02/15/2007	0935	3.11	423.5	340	7.45	N
21	8310 N. Verde Dr.	02/15/2007	1410	1.48	396.5	330	8.05	N
21	8310 N. Verde Dr.	02/15/2007	2100	2.43	399.5	330	9.89	N
21	8310 N. Verde Dr.	02/16/2007	0800	3.12	407.5	330	9.7	N
21	8310 N. Verde Dr.	02/16/2007	1159	1.11	424.5	330	6.53	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
21	8310 N. Verde Dr.	02/16/2007	1430	2.39	445	340	7.6	N
21	8310 N. Verde Dr.	02/17/2007	0915	1.4	385	320	8.07	N
21	8310 N. Verde Dr.	02/17/2007	1520	6.54	407	330	7.84	N
21	8310 N. Verde Dr.	02/18/2007	0910	2.68	410	330	7.22	N
21	8310 N. Verde Dr.	02/18/2007	1350	0.96	431	340	6.03	N
21	8310 N. Verde Dr.	02/19/2007	0946	2.29	427	330	6.44	N
21	8310 N. Verde Dr.	02/19/2007	1445	2.29	405.5	340	6.78	N
21	8310 N. Verde Dr.	02/20/2007	0853	3.28	404.5	330	7.91	N
21	8310 N. Verde Dr.	02/20/2007	1305	4.94	415.5	330	9.8	N
21	8310 N. Verde Dr.	02/21/2007	0920	3.69	398	330	8.22	N
21	8310 N. Verde Dr.	02/21/2007	1340	2.75	407	330	7.05	N
21	8310 N. Verde Dr.	02/22/2007	0941	3.62	399.5	330	7.54	N
21	8310 N. Verde Dr.	02/22/2007	1410	2.37	396	330	5.75	N
21	8310 N. Verde Dr.	02/22/2007	1410	2.74	422.5	330	5.94	N
21	8310 N. Verde Dr.	02/23/2007	0928	2.47	399	330	6.	N
21	8310 N. Verde Dr.	02/23/2007	1343	2.55	415.5	330	6.17	N
21	8310 N. Verde Dr.	02/23/2007	1755	2.01	427	330	5.22	N
21	8310 N. Verde Dr.	02/24/2007	0942	3.07	424.5	330	6.43	N
21	8310 N. Verde Dr.	02/24/2007	1348	3.81	393.5	330	8.09	N
21	8310 N. Verde Dr.	02/25/2007	1007	3.75	422.5	330	7.68	N
21	8310 N. Verde Dr.	02/25/2007	1452	3.21	407	330	7.45	N
21	8310 N. Verde Dr.	02/26/2007	0930	2.43	389.5	330	5.77	N
21	8310 N. Verde Dr.	02/26/2007	1516	3.17	405.5	330	6.71	N
21	8310 N. Verde Dr.	02/27/2007	0940	3.1	423	330	6.63	N
21	8310 N. Verde Dr.	02/27/2007	1510	2.75	403	330	6.15	N
21	8310 N. Verde Dr.	02/28/2007	0930	2.99	423	330	7.18	N
21	8310 N. Verde Dr.	02/28/2007	1409	3.01	422.5	330	6.49	N
21	8310 N. Verde Dr.	03/01/2007	0935	2.96	399.5	330	6.54	N
21	8310 N. Verde Dr.	03/01/2007	1405	3.49	402	330	6.81	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
21	8310 N. Verde Dr.	03/02/2007	0910	2.93	406.5	330	6.39	N
21	8310 N. Verde Dr.	03/02/2007	1441	3.86	393.5	330	8.19	N
21	8310 N. Verde Dr.	03/03/2007	0815	4.02	415.5	330	7.84	N
21	8310 N. Verde Dr.	03/03/2007	1400	3.8	399	330	7.42	N
21	8310 N. Verde Dr.	03/04/2007	0940	3.56	423	330	7.23	N
21	8310 N. Verde Dr.	03/04/2007	1440	4.06	426.5	330	7.77	N
21	8310 N. Verde Dr.	03/05/2007	0905	3.69	399.5	330	7.62	N
21	8310 N. Verde Dr.	03/05/2007	1430	3.6	406.5	330	7.74	N
21	8310 N. Verde Dr.	03/06/2007	0911	2.92	408	360	6.81	N
21	8310 N. Verde Dr.	03/06/2007	1350	3.23	392.5	330	6.93	N
21	8310 N. Verde Dr.	03/06/2007	1350	2.86	423	330	6.41	N
21	8310 N. Verde Dr.	03/07/2007	0930	4	391.5	330	9.76	N
21	8310 N. Verde Dr.	03/08/2007	0944	3.13	422.5	330	6.49	N
21	8310 N. Verde Dr.	03/09/2007	0924	2.67	445	330	6.24	N
21	8310 N. Verde Dr.	03/10/2007	0928	3.5	388	330	7.59	N
21	8310 N. Verde Dr.	03/11/2007	0935	3.19	423	330	6.76	N
21	8310 N. Verde Dr.	03/12/2007	0715	3.93	422.5	330	9.39	N
21	8310 N. Verde Dr.	03/12/2007	0930	3.76	388	330	8.15	N
21	8310 N. Verde Dr.	03/12/2007	2030	3.32	408	330	7.47	N
21	8310 N. Verde Dr.	03/13/2007	0800	10.85	428	330	18.79	Y
21	8310 N. Verde Dr.	03/13/2007	0921	4.79	427	330	9.39	N
21	8310 N. Verde Dr.	03/13/2007	2100	4.92	423.5	330	11.03	N
21	8310 N. Verde Dr.	03/14/2007	0700	4.87	407	330	10.11	N
21	8310 N. Verde Dr.	03/14/2007	0920	4.49	424.5	330	8.76	N
21	8310 N. Verde Dr.	03/14/2007	2100	7.91	388	330	16.46	Y
21	8310 N. Verde Dr.	03/15/2007	0700	8.89	430.5	330	18.16	Y
21	8310 N. Verde Dr.	03/15/2007	0915	10.3	423	330	18.18	Y
21	8310 N. Verde Dr.	03/15/2007	2100	12.35	429.5	330	21.53	Y
21	8310 N. Verde Dr.	03/16/2007	0700	10.88	410.5	330	20.6	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
21	8310 N. Verde Dr.	03/16/2007	0910	10.22	427	330	19.56	Y
21	8310 N. Verde Dr.	03/16/2007	1331	9.22	437.5	330	20.61	Y
21	8310 N. Verde Dr.	03/16/2007	1353	9.85	433	330	18.45	Y
21	8310 N. Verde Dr.	03/17/2007	0825	9.03	432.5	330	20.	Y
21	8310 N. Verde Dr.	03/17/2007	0825	9.86	434.5	330	18.23	Y
21	8310 N. Verde Dr.	03/18/2007	0829	9.18	428.5	320	19.03	Y
21	8310 N. Verde Dr.	03/18/2007	0829	10.39	439	330	19.02	Y
21	8310 N. Verde Dr.	03/19/2007	0828	7.1	424.5	340	15.96	Y
21	8310 N. Verde Dr.	03/19/2007	0828	7.85	428	330	15.07	Y
21	8310 N. Verde Dr.	03/19/2007	1435	9.76	439	330	17.29	Y
21	8310 N. Verde Dr.	03/20/2007	0919	6.43	428	350	13.81	N
21	8310 N. Verde Dr.	03/20/2007	0919	8.28	446	330	16.41	Y
21	8310 N. Verde Dr.	03/21/2007	0900	7.28	423.5	330	13.65	N
21	8310 N. Verde Dr.	03/21/2007	0900	5.98	432.5	320	12.93	N
21	8310 N. Verde Dr.	03/22/2007	0920	6.63	418	330	12.59	N
21	8310 N. Verde Dr.	03/22/2007	0923	5.85	425.5	340	12.97	N
21	8310 N. Verde Dr.	03/23/2007	0916	6.34	426	330	12.5	N
21	8310 N. Verde Dr.	03/24/2007	0910	6.17	404.5	330	11.29	N
21	8310 N. Verde Dr.	03/25/2007	0910	6.11	423	330	11.64	N
21	8310 N. Verde Dr.	03/26/2007	0920	6.34	443	330	11.79	N
21	8310 N. Verde Dr.	04/09/2007	1020	6.43	371.5	330	12.76	N
22	10546 Parrigin	01/24/2007	0910	2.02	436	300	9.27	N
22	10546 Parrigin	01/24/2007	1420	2.27	387	320	5.76	N
22	10546 Parrigin	01/25/2007	0900	2.17	395	320	7.45	N
22	10546 Parrigin	01/26/2007	1410	8.7	410.5	320	21.65	Y
22	10546 Parrigin	01/26/2007	1419	7.64	412	330	18.31	Y
22	10546 Parrigin	01/27/2007	1425	8.08	406	330	19.17	Y
22	10546 Parrigin	01/27/2007	1513	8.16	410	330	20.97	Y
22	10546 Parrigin	01/29/2007	0920	5.3	407	330	14.63	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
22	10546 Parrigin	01/29/2007	1425	5.79	427	340	14.62	Y
22	10546 Parrigin	01/30/2007	0904	5.51	407	330	13.63	N
22	10546 Parrigin	01/30/2007	1440	5.77	414	330	14.31	Y
22	10546 Parrigin	01/31/2007	0815	4.13	432.5	320	11.21	N
22	10546 Parrigin	01/31/2007	0910	6.14	433.5	330	15.56	Y
22	10546 Parrigin	01/31/2007	1500	5.82	415	340	15.12	Y
22	10546 Parrigin	01/31/2007	1600	5.35	404.5	330	13.78	N
22	10546 Parrigin	02/01/2007	0815	5.07	407.5	340	12.41	N
22	10546 Parrigin	02/01/2007	1540	4.78	423.5	330	11.78	N
22	10546 Parrigin	02/02/2007	0947	3.66	398	320	9.89	N
22	10546 Parrigin	02/02/2007	1700	3.62	410.5	320	10.2	N
22	10546 Parrigin	02/03/2007	0850	4.72	405	320	12.8	N
22	10546 Parrigin	02/03/2007	1500	4.17	394	330	12.07	N
22	10546 Parrigin	02/04/2007	0750	2.81	402	330	8.38	N
22	10546 Parrigin	02/04/2007	1400	3.06	404.5	330	8.24	N
22	10546 Parrigin	02/05/2007	0904	4.97	414.5	320	14.41	Y
22	10546 Parrigin	02/05/2007	1650	4.37	414.5	330	9.87	N
22	10546 Parrigin	02/06/2007	0835	3.27	408	330	8.93	N
22	10546 Parrigin	02/07/2007	1225	4.89	367	320	13.37	N
22	10546 Parrigin	02/07/2007	1715	4.02	387.5	320	10.32	N
22	10546 Parrigin	02/08/2007	0925	3.18	413	340	9.07	N
22	10546 Parrigin	02/08/2007	1645	3.51	382.5	320	8.33	N
22	10546 Parrigin	02/09/2007	1033	4.63	392	330	10.33	N
22	10546 Parrigin	02/09/2007	1715	5.08	392.5	320	14.23	Y
22	10546 Parrigin	02/10/2007	1015	2.93	404	330	8.27	N
22	10546 Parrigin	02/10/2007	1415	3.19	389.5	320	9.24	N
22	10546 Parrigin	02/11/2007	0928	3.99	391	320	10.37	N
22	10546 Parrigin	02/11/2007	1320	3.54	415	330	9.65	N
22	10546 Parrigin	02/12/2007	0825	2.46	418.5	320	7.18	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
22	10546 Parrigin	02/12/2007	1455	1.3	381.5	310	6.64	N
22	10546 Parrigin	02/12/2007	1458	2.64	420	340	8.11	N
22	10546 Parrigin	02/13/2007	0822	2.5	385	320	7.25	N
22	10546 Parrigin	02/13/2007	1347	2.77	398	320	7.88	N
22	10546 Parrigin	02/14/2007	0845	3.61	387.5	320	10.13	N
22	10546 Parrigin	02/14/2007	1715	3.06	387	320	7.54	N
22	10546 Parrigin	02/15/2007	0851	4.01	363	310	10.15	N
22	10546 Parrigin	02/15/2007	1530	2.27	385	340	7.48	N
22	10546 Parrigin	02/16/2007	0950	3.56	392	350	7.03	N
22	10546 Parrigin	02/17/2007	0905	9.33	384.5	340	8.22	N
22	10546 Parrigin	02/17/2007	1620	6.54	392	330	6.82	N
22	10546 Parrigin	02/18/2007	0833	2.76	415	330	8.45	N
22	10546 Parrigin	02/18/2007	1640	1.62	384.5	340	6.88	N
22	10546 Parrigin	02/19/2007	0825	2.13	399.5	330	6.32	N
22	10546 Parrigin	02/19/2007	1630	0.09	385.5	330	6.29	N
22	10546 Parrigin	02/20/2007	0831	2.58	430	330	6.25	N
22	10546 Parrigin	02/20/2007	1620	2.6	423	330	7.3	N
22	10546 Parrigin	02/21/2007	0730	2.69	388	330	5.75	N
22	10546 Parrigin	02/21/2007	1620	2.93	439	330	7.21	N
22	10546 Parrigin	02/22/2007	0930	2.47	422.5	330	5.86	N
22	10546 Parrigin	02/22/2007	1620	2.42	404.5	330	5.68	N
22	10546 Parrigin	02/23/2007	0828	2	423	330	5.05	N
22	10546 Parrigin	02/24/2007	0828	3.02	405.5	330	7.31	N
22	10546 Parrigin	02/24/2007	1615	3.71	395.5	330	8.91	N
22	10546 Parrigin	02/25/2007	0725	2.67	393.5	330	6.32	N
22	10546 Parrigin	02/25/2007	1324	4.14	405.5	360	9.	N
22	10546 Parrigin	02/26/2007	0915	2.75	388	330	6.89	N
22	10546 Parrigin	02/26/2007	1838	2.6	423	330	7.26	N
22	10546 Parrigin	02/27/2007	0915	2.15	404.5	330	5.69	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
22	10546 Parrigin	02/27/2007	1448	2.25	412	330	5.53	N
22	10546 Parrigin	02/28/2007	0849	3.07	404.5	330	7.33	N
22	10546 Parrigin	02/28/2007	1646	2.8	407	330	6.04	N
22	10546 Parrigin	03/01/2007	1010	7.13	430	330	16.	Y
22	10546 Parrigin	03/01/2007	1631	22.06	423	330	46.46	Y
22	10546 Parrigin	03/02/2007	0957	45.65	417.5	330	94.73	Y
22	10546 Parrigin	03/02/2007	1623	49.29	427.5	330	106.34	Y
22	10546 Parrigin	03/03/2007	0853	52.36	415.5	330	112.42	Y
22	10546 Parrigin	03/03/2007	1502	43.42	419	330	91.6	Y
22	10546 Parrigin	03/04/2007	0730	55.56	430.5	330	116.67	Y
22	10546 Parrigin	03/04/2007	0730	48.06	432.5	330	113.11	Y
22	10546 Parrigin	03/04/2007	1350	51	424	330	104.76	Y
22	10546 Parrigin	03/04/2007	1350	44.53	428.5	330	107.57	Y
22	10546 Parrigin	03/04/2007	1830	55.75	429	330	117.48	Y
22	10546 Parrigin	03/04/2007	1830	46.58	433.5	350	108.95	Y
22	10546 Parrigin	03/05/2007	0940	52.43	423	330	110.25	Y
22	10546 Parrigin	03/05/2007	0940	46.03	433.5	350	110.11	Y
22	10546 Parrigin	03/05/2007	1300	55.74	427	330	116.02	Y
22	10546 Parrigin	03/05/2007	1705	53.32	416.5	330	109.74	Y
22	10546 Parrigin	03/05/2007	1705	43.68	423	330	102.93	Y
22	10546 Parrigin	03/06/2007	0928	41.01	428	330	97.07	Y
22	10546 Parrigin	03/06/2007	0928	48.88	432	330	105.26	Y
22	10546 Parrigin	03/06/2007	1645	44.47	424	330	91.94	Y
22	10546 Parrigin	03/06/2007	1645	37.13	433.5	330	86.76	Y
22	10546 Parrigin	03/07/2007	0907	29.69	425.5	330	64.17	Y
22	10546 Parrigin	03/07/2007	0907	25.2	432	330	62.25	Y
22	10546 Parrigin	03/07/2007	1717	33.34	420.5	330	69.92	Y
22	10546 Parrigin	03/07/2007	1717	29.25	427	330	67.65	Y
22	10546 Parrigin	03/08/2007	0935	20.11	423	330	41.77	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
22	10546 Parrigin	03/08/2007	0939	17.5	428	320	40.48	Y
22	10546 Parrigin	03/08/2007	1500	24	427.5	330	50.64	Y
22	10546 Parrigin	03/08/2007	1500	21.59	432	330	50.42	Y
22	10546 Parrigin	03/09/2007	0950	18.36	413	320	43.57	Y
22	10546 Parrigin	03/09/2007	0950	20.94	418.5	330	44.52	Y
22	10546 Parrigin	03/09/2007	1635	24.65	418	330	49.94	Y
22	10546 Parrigin	03/09/2007	1635	22.01	422	320	52.87	Y
22	10546 Parrigin	03/10/2007	0840	20.79	423.5	330	42.93	Y
22	10546 Parrigin	03/10/2007	0840	18.72	427	320	45.28	Y
22	10546 Parrigin	03/10/2007	1345	19.19	417.5	330	46.15	Y
22	10546 Parrigin	03/10/2007	1345	22.03	422.5	330	45.36	Y
22	10546 Parrigin	03/11/2007	0925	25.58	418.5	330	57.	Y
22	10546 Parrigin	03/11/2007	0925	21.42	425.5	330	51.48	Y
22	10546 Parrigin	03/11/2007	1445	18.94	407.5	330	46.56	Y
22	10546 Parrigin	03/11/2007	1445	22.24	407.5	330	47.36	Y
22	10546 Parrigin	03/12/2007	0915	28.21	414.5	330	65.25	Y
22	10546 Parrigin	03/12/2007	0915	30.71	421.5	330	60.43	Y
22	10546 Parrigin	03/12/2007	1639	14.88	430.5	330	28.68	Y
22	10546 Parrigin	03/12/2007	1639	13.41	434	330	28.57	Y
22	10546 Parrigin	03/13/2007	0910	11.53	427.5	330	22.72	Y
22	10546 Parrigin	03/13/2007	0910	10.45	435.5	340	22.57	Y
22	10546 Parrigin	03/13/2007	1655	10.45	425	330	20.5	Y
22	10546 Parrigin	03/14/2007	0940	11.37	437	340	25.94	Y
22	10546 Parrigin	03/14/2007	0940	12.95	439	330	25.28	Y
22	10546 Parrigin	03/14/2007	1200	15.03	424.5	330	28.89	Y
22	10546 Parrigin	03/14/2007	1615	11.51	425.5	330	22.22	Y
22	10546 Parrigin	03/15/2007	0830	9.8	431.5	330	20.01	Y
22	10546 Parrigin	03/15/2007	0830	11.96	432.5	350	26.81	Y
22	10546 Parrigin	03/15/2007	1217	9.89	427	330	20.72	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
22	10546 Parrigin	03/15/2007	1645	9.53	433.5	330	17.96	Y
22	10546 Parrigin	03/16/2007	0825	8.59	434	330	16.69	Y
22	10546 Parrigin	03/16/2007	0825	7.77	442	340	18.38	Y
22	10546 Parrigin	03/16/2007	1233	8.6	430	330	17.5	Y
22	10546 Parrigin	03/16/2007	1625	8.35	432.5	330	17.73	Y
22	10546 Parrigin	03/17/2007	0849	6.52	425	340	15.88	Y
22	10546 Parrigin	03/17/2007	0849	7.32	431.5	330	14.81	Y
22	10546 Parrigin	03/18/2007	0845	5.94	414.5	340	13.98	N
22	10546 Parrigin	03/18/2007	0845	7.1	442.5	330	15.62	Y
22	10546 Parrigin	03/18/2007	1530	7.93	433	330	16.1	Y
22	10546 Parrigin	03/19/2007	0855	7.34	428	330	16.66	Y
22	10546 Parrigin	03/19/2007	0855	6.41	430	330	16.13	Y
22	10546 Parrigin	03/19/2007	1501	6.3	427	330	13.54	N
22	10546 Parrigin	03/20/2007	0940	7.06	422.5	330	14.62	Y
22	10546 Parrigin	03/20/2007	1624	7.24	430.5	330	15.59	Y
22	10546 Parrigin	03/20/2007	1629	5.4	427	330	15.05	Y
22	10546 Parrigin	03/21/2007	0925	6.46	423	330	14.05	Y
22	10546 Parrigin	03/21/2007	1631	5.91	428	330	13.33	N
22	10546 Parrigin	03/22/2007	0913	10.72	409.5	330	26.32	Y
22	10546 Parrigin	03/22/2007	0913	11.97	434.5	330	25.15	Y
22	10546 Parrigin	03/22/2007	1744	50.73	413	330	106.15	Y
22	10546 Parrigin	03/23/2007	1040	47.25	409.5	330	113.52	Y
22	10546 Parrigin	03/23/2007	1040	56.02	418	330	120.57	Y
22	10546 Parrigin	03/23/2007	1648	48	422	330	100.62	Y
22	10546 Parrigin	03/24/2007	0915	31.26	415	330	63.07	Y
22	10546 Parrigin	03/24/2007	1520	27.15	412.5	320	67.09	Y
22	10546 Parrigin	03/24/2007	1520	33.35	417.5	330	70.13	Y
22	10546 Parrigin	03/25/2007	0916	24.95	422.5	320	59.3	Y
22	10546 Parrigin	03/25/2007	0916	29.4	422.5	330	62.2	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
22	10546 Parrigin	03/25/2007	1500	23.64	420.5	330	48.55	Y
22	10546 Parrigin	03/26/2007	0945	16.08	407	330	32.93	Y
22	10546 Parrigin	03/26/2007	0945	13.35	419	320	35.78	Y
22	10546 Parrigin	03/27/2007	1245	9.69	417.5	330	23.13	Y
22	10546 Parrigin	03/27/2007	1245	11.66	422.5	330	22.77	Y
22	10546 Parrigin	03/28/2007	1234	6.96	410.5	320	16.8	Y
22	10546 Parrigin	03/28/2007	1234	7.36	431	330	15.77	Y
22	10546 Parrigin	03/30/2007	1520	6.56	418	330	13.64	N
22	10546 Parrigin	03/30/2007	1520	5.42	422.5	330	13.66	N
22	10546 Parrigin	03/31/2007	1221	6.58	423	330	13.92	N
22	10546 Parrigin	04/01/2007	1620	6.3	415	330	12.18	N
22	10546 Parrigin	04/02/2007	1310	6.59	418	330	13.51	N
22	10546 Parrigin	04/03/2007	1309	5.67	423	330	12.08	N
22	10546 Parrigin	04/04/2007	1224	5.85	423	330	11.77	N
22	10546 Parrigin	04/05/2007	1327	6.53	414	330	12.7	N
22	10546 Parrigin	04/06/2007	1248	5.19	423.5	330	9.96	N
22	10546 Parrigin	04/09/2007	1415	5.91	371	330	13.33	N
22	10546 Parrigin	04/09/2007	1415	4.67	418.5	320	10.79	N
24	12864 Wagon Pass	02/03/2007	0930	6.5	387.5	330	18.86	Y
24	12864 Wagon Pass	02/04/2007	0950	6.67	387.5	320	19.1	Y
24	12864 Wagon Pass	02/05/2007	1025	5.95	397	330	15.71	N
24	12864 Wagon Pass	02/06/2007	1535	6.2	392	330	17.27	N
24	12864 Wagon Pass	02/07/2007	1315	6.41	389.5	320	17.61	N
24	12864 Wagon Pass	02/08/2007	1007	19.29	436.5	350	62.03	Y
24	12864 Wagon Pass	02/09/2007	1108	6.71	395.5	330	18.15	N
24	12864 Wagon Pass	02/10/2007	0945	6.65	394	330	16.17	N
24	12864 Wagon Pass	02/11/2007	1005	7.22	390	320	18.42	Y
24	12864 Wagon Pass	02/12/2007	0845	7.73	411	340	19.64	Y
24	12864 Wagon Pass	02/12/2007	1610	6.17	400.5	340	17.53	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
24	12864 Wagon Pass	02/13/2007	0840	6.08	389.5	330	16.48	N
24	12864 Wagon Pass	02/13/2007	1415	6.91	382.5	320	20.19	Y
24	12864 Wagon Pass	02/14/2007	0920	7.13	387.5	330	19.43	Y
24	12864 Wagon Pass	02/14/2007	1837	6.62	396	330	17.49	N
24	12864 Wagon Pass	02/15/2007	0945	8.43	389.5	320	22.49	Y
24	12864 Wagon Pass	02/15/2007	1640	0.85	399	330	15.8	N
24	12864 Wagon Pass	02/20/2007	1435	3.06	423	330	7.61	N
24	12864 Wagon Pass	03/16/2007	1105	7.11	388	330	17.39	N
24	12864 Wagon Pass	03/18/2007	0837	3.25	389.5	330	7.49	N
24	12864 Wagon Pass	03/18/2007	0837	1.81	443	340	7.47	N
25	10973 Mesquite Flat	01/24/2007	1020	5.52	432	340	12.71	N
25	10973 Mesquite Flat	01/24/2007	1400	3.56	378.5	320	10.01	N
25	10973 Mesquite Flat	01/25/2007	1145	8.55	425	340	18.	Y
25	10973 Mesquite Flat	01/26/2007	1607	4.87	411	340	12.98	N
25	10973 Mesquite Flat	01/27/2007	1549	5.53	430	320	13.84	N
25	10973 Mesquite Flat	01/30/2007	0940	4.57	428	340	11.65	N
25	10973 Mesquite Flat	01/31/2007	0845	5.07	398	320	12.72	N
25	10973 Mesquite Flat	02/01/2007	0912	4.8	422.5	330	11.27	N
25	10973 Mesquite Flat	02/03/2007	1005	3.55	404.5	330	9.5	N
25	10973 Mesquite Flat	02/03/2007	1037	5.35	398	320	12.72	N
25	10973 Mesquite Flat	02/04/2007	0920	3.88	423	340	9.74	N
25	10973 Mesquite Flat	02/05/2007	0940	3.49	427.5	330	9.04	N
25	10973 Mesquite Flat	02/06/2007	0925	2.85	427.5	330	8.19	N
25	10973 Mesquite Flat	02/07/2007	1255	3.71	423	330	9.49	N
25	10973 Mesquite Flat	02/08/2007	0945	3.12	424.5	340	9.06	N
25	10973 Mesquite Flat	02/09/2007	1052	4.01	410.5	320	10.78	N
25	10973 Mesquite Flat	02/11/2007	0945	3.75	419.5	320	9.48	N
25	10973 Mesquite Flat	02/12/2007	0900	2.76	422	350	7.71	N
25	10973 Mesquite Flat	02/12/2007	1622	3.08	414.5	330	8.21	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
25	10973 Mesquite Flat	02/13/2007	0850	2.51	431.5	330	7.48	N
25	10973 Mesquite Flat	02/13/2007	1427	3	407.5	330	8.	N
25	10973 Mesquite Flat	02/14/2007	0905	3.75	391	320	9.92	N
25	10973 Mesquite Flat	02/14/2007	1804	2.97	398	320	7.93	N
25	10973 Mesquite Flat	02/15/2007	0928	3.8	422.5	330	9.02	N
25	10973 Mesquite Flat	02/16/2007	1020	1.48	389.5	320	6.52	N
25	10973 Mesquite Flat	02/16/2007	1350	1.01	422	350	6.58	N
25	10973 Mesquite Flat	02/17/2007	0935	2.69	420.5	310	12.76	N
25	10973 Mesquite Flat	02/17/2007	1552	1.74	428	340	7.11	N
25	10973 Mesquite Flat	02/18/2007	0900	1.87	432.5	330	9.57	N
25	10973 Mesquite Flat	02/18/2007	1323	2.32	404.5	330	6.72	N
25	10973 Mesquite Flat	02/19/2007	0850	4.55	404.5	330	10.5	N
25	10973 Mesquite Flat	02/19/2007	1245	3.24	387.5	320	9.28	N
25	10973 Mesquite Flat	02/20/2007	0905	3.18	428	330	7.45	N
25	10973 Mesquite Flat	02/21/2007	1220	4.43	404	330	10.24	N
25	10973 Mesquite Flat	02/22/2007	0849	3.53	399	330	9.66	N
25	10973 Mesquite Flat	02/22/2007	0849	3.21	410	320	10.07	N
25	10973 Mesquite Flat	02/22/2007	1545	3.71	384.5	320	9.67	N
25	10973 Mesquite Flat	02/22/2007	1545	4.42	395	330	9.3	N
25	10973 Mesquite Flat	02/23/2007	0858	7	410	330	15.76	Y
25	10973 Mesquite Flat	02/23/2007	1235	7.11	410.5	330	17.09	Y
25	10973 Mesquite Flat	02/23/2007	1245	7.86	415.5	330	17.8	Y
25	10973 Mesquite Flat	02/23/2007	1725	8.33	408	330	18.11	Y
25	10973 Mesquite Flat	02/24/2007	0841	8.01	408.5	330	18.55	Y
25	10973 Mesquite Flat	02/24/2007	1400	7.91	418	330	16.53	Y
25	10973 Mesquite Flat	02/25/2007	0837	7.06	423	330	15.07	Y
25	10973 Mesquite Flat	02/25/2007	1540	6.95	406	330	13.96	N
25	10973 Mesquite Flat	02/26/2007	0940	6.83	427	330	15.32	Y
25	10973 Mesquite Flat	02/26/2007	1803	6.24	404.5	330	14.92	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
25	10973 Mesquite Flat	02/27/2007	0946	7.16	402.5	330	15.96	Y
25	10973 Mesquite Flat	02/27/2007	1424	7.84	410.5	330	17.58	Y
25	10973 Mesquite Flat	02/28/2007	0917	7.93	407	330	16.81	Y
25	10973 Mesquite Flat	02/28/2007	1616	8.57	422.5	330	18.81	Y
25	10973 Mesquite Flat	03/02/2007	1030	18.82	418	330	41.71	Y
25	10973 Mesquite Flat	03/02/2007	1647	18.39	424	330	38.9	Y
25	10973 Mesquite Flat	03/03/2007	0818	25.68	430.5	330	53.77	Y
25	10973 Mesquite Flat	03/03/2007	1449	23.22	431.5	330	47.15	Y
25	10973 Mesquite Flat	03/04/2007	0830	22.85	412.5	330	55.15	Y
25	10973 Mesquite Flat	03/04/2007	0830	28.24	429.5	330	62.87	Y
25	10973 Mesquite Flat	03/04/2007	1445	31	422	330	65.63	Y
25	10973 Mesquite Flat	03/04/2007	1445	25.96	424.5	330	64.15	Y
25	10973 Mesquite Flat	03/04/2007	1820	32.1	415.5	330	68.52	Y
25	10973 Mesquite Flat	03/04/2007	1820	25.49	423.5	330	62.12	Y
25	10973 Mesquite Flat	03/05/2007	0855	26.25	426	330	63.31	Y
25	10973 Mesquite Flat	03/05/2007	1340	29.67	433	330	61.73	Y
25	10973 Mesquite Flat	03/05/2007	1720	24.18	415	330	60.51	Y
25	10973 Mesquite Flat	03/06/2007	0855	29.95	423.5	330	63.02	Y
25	10973 Mesquite Flat	03/06/2007	0858	21.92	412.5	320	53.76	Y
25	10973 Mesquite Flat	03/06/2007	0858	25.65	423.5	330	54.26	Y
25	10973 Mesquite Flat	03/06/2007	1643	19.48	415.5	330	45.68	Y
25	10973 Mesquite Flat	03/06/2007	1643	22.97	423	330	50.42	Y
25	10973 Mesquite Flat	03/06/2007	1750	29.7	423	330	62.67	Y
25	10973 Mesquite Flat	03/07/2007	0834	16.17	415.5	330	41.35	Y
25	10973 Mesquite Flat	03/07/2007	0834	19.9	417.5	330	42.27	Y
25	10973 Mesquite Flat	03/07/2007	1651	15.38	418	330	38.8	Y
25	10973 Mesquite Flat	03/07/2007	1651	18.27	426.5	330	37.23	Y
25	10973 Mesquite Flat	03/08/2007	0916	13.61	410.5	320	33.34	Y
25	10973 Mesquite Flat	03/08/2007	0916	15.62	422.5	330	32.64	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
25	10973 Mesquite Flat	03/08/2007	1435	14.27	424.5	330	28.96	Y
25	10973 Mesquite Flat	03/08/2007	1435	12.5	425.5	320	29.75	Y
25	10973 Mesquite Flat	03/09/2007	1005	11.1	425.5	320	26.77	Y
25	10973 Mesquite Flat	03/09/2007	1005	11.96	426	330	24.74	Y
25	10973 Mesquite Flat	03/09/2007	1643	10.68	408.5	320	26.86	Y
25	10973 Mesquite Flat	03/09/2007	1643	11	414.5	330	23.07	Y
25	10973 Mesquite Flat	03/10/2007	0915	9.83	406.5	330	20.22	Y
25	10973 Mesquite Flat	03/10/2007	0915	9.05	425	320	22.28	Y
25	10973 Mesquite Flat	03/10/2007	1425	9.07	404.5	330	22.28	Y
25	10973 Mesquite Flat	03/10/2007	1425	9.4	414	330	19.4	Y
25	10973 Mesquite Flat	03/11/2007	1005	8.68	412	330	20.01	Y
25	10973 Mesquite Flat	03/11/2007	1005	7.47	419.5	320	17.32	Y
25	10973 Mesquite Flat	03/11/2007	1515	10.37	410.5	330	22.7	Y
25	10973 Mesquite Flat	03/11/2007	1515	9.11	424.5	320	22.01	Y
25	10973 Mesquite Flat	03/12/2007	0945	11.14	411.5	340	23.66	Y
25	10973 Mesquite Flat	03/12/2007	0945	12.06	422.5	330	23.69	Y
25	10973 Mesquite Flat	03/12/2007	1253	12.17	432.5	330	23.9	Y
25	10973 Mesquite Flat	03/12/2007	1253	10.84	433	340	24.01	Y
25	10973 Mesquite Flat	03/12/2007	1330	4.02	415.5	330	10.66	N
25	10973 Mesquite Flat	03/12/2007	1530	4.09	418	330	9.84	N
25	10973 Mesquite Flat	03/13/2007	1140	9.42	418	330	18.19	Y
25	10973 Mesquite Flat	03/13/2007	1140	8.33	424.5	340	19.68	Y
25	10973 Mesquite Flat	03/13/2007	1630	9.18	422	330	18.22	Y
25	10973 Mesquite Flat	03/13/2007	1630	8.24	432.5	330	18.21	Y
25	10973 Mesquite Flat	03/14/2007	1012	12.1	428	330	22.04	Y
25	10973 Mesquite Flat	03/14/2007	1211	12.8	429	330	23.64	Y
25	10973 Mesquite Flat	03/14/2007	1540	9.78	432	340	22.24	Y
25	10973 Mesquite Flat	03/15/2007	0925	9.13	423	330	18.38	Y
25	10973 Mesquite Flat	03/15/2007	0925	7.73	425	340	18.04	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
25	10973 Mesquite Flat	03/15/2007	1630	8.59	415	330	16.6	Y
25	10973 Mesquite Flat	03/16/2007	0900	7.49	422.5	330	14.76	N
25	10973 Mesquite Flat	03/16/2007	1247	7.37	441	330	14.67	N
25	10973 Mesquite Flat	03/16/2007	1610	7	430	330	14.71	N
25	10973 Mesquite Flat	03/17/2007	0911	6.51	422.5	330	13.86	N
25	10973 Mesquite Flat	03/17/2007	1554	6.47	439.5	330	12.68	N
25	10973 Mesquite Flat	03/18/2007	0820	6.52	424.5	330	12.	N
25	10973 Mesquite Flat	03/18/2007	0820	5.53	436	340	12.26	N
25	10973 Mesquite Flat	03/18/2007	1451	6.71	424	330	12.08	N
25	10973 Mesquite Flat	03/19/2007	0930	5.46	428.5	330	11.52	N
25	10973 Mesquite Flat	03/19/2007	1641	5.79	422.5	330	12.71	N
25	10973 Mesquite Flat	03/20/2007	1025	5.66	430	330	12.28	N
25	10973 Mesquite Flat	03/20/2007	1535	5.62	437	330	11.14	N
25	10973 Mesquite Flat	03/21/2007	0910	5.5	407	330	11.31	N
25	10973 Mesquite Flat	03/21/2007	1615	4.87	406	330	9.81	N
25	10973 Mesquite Flat	03/22/2007	0855	4.43	424	330	9.42	N
25	10973 Mesquite Flat	03/22/2007	1723	9.27	408	330	19.24	Y
25	10973 Mesquite Flat	03/22/2007	1723	7.73	423	330	17.32	Y
25	10973 Mesquite Flat	03/23/2007	0930	10.39	411	330	21.71	Y
25	10973 Mesquite Flat	03/23/2007	1615	9.55	423.5	330	19.59	Y
25	10973 Mesquite Flat	03/24/2007	0945	7.61	420.5	320	18.32	Y
25	10973 Mesquite Flat	03/24/2007	0945	8.68	422.5	330	19.71	Y
25	10973 Mesquite Flat	03/24/2007	1335	8.89	427	330	19.65	Y
25	10973 Mesquite Flat	03/25/2007	0955	7.31	423.5	330	16.89	Y
25	10973 Mesquite Flat	03/25/2007	0955	8.12	426.5	330	16.24	Y
25	10973 Mesquite Flat	03/25/2007	1355	7.9	433	330	17.79	Y
25	10973 Mesquite Flat	03/26/2007	0905	5.81	439	330	11.39	N
25	10973 Mesquite Flat	03/27/2007	1139	5.54	415.5	330	10.54	N
25	10973 Mesquite Flat	03/28/2007	1120	4.65	406	330	9.58	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
25	10973 Mesquite Flat	03/29/2007	1140	6.27	430.5	330	12.97	N
25	10973 Mesquite Flat	03/30/2007	1430	5.73	429.5	330	11.15	N
25	10973 Mesquite Flat	03/31/2007	1140	6.48	433	330	12.54	N
25	10973 Mesquite Flat	04/01/2007	1601	5.77	418	330	13.19	N
25	10973 Mesquite Flat	04/01/2007	1601	7.04	423	330	13.29	N
25	10973 Mesquite Flat	04/02/2007	1145	5.56	434	330	11.29	N
25	10973 Mesquite Flat	04/03/2007	1212	5.34	429.5	330	10.21	N
25	10973 Mesquite Flat	04/04/2007	1159	5.39	433.5	330	11.37	N
25	10973 Mesquite Flat	04/05/2007	1224	5.18	434.5	330	9.76	N
25	10973 Mesquite Flat	04/06/2007	1218	4.74	423	330	9.44	N
25	10973 Mesquite Flat	04/09/2007	1438	5.58	371	330	13.19	N
31	12861 Galm Rd.	01/30/2007	1130	4.91	416	330	12.09	N
31	12861 Galm Rd.	02/12/2007	1030	2.23	423.5	330	6.72	N
31	12861 Galm Rd.	02/26/2007	1230	0.93	411	360	3.95	N
31	12861 Galm Rd.	03/05/2007	1400	2.65	406	330	6.19	N
31	12861 Galm Rd.	03/12/2007	1005	5.38	396	330	9.38	N
31	12861 Galm Rd.	03/14/2007	1200	14.65	440.5	330	28.5	Y
31	12861 Galm Rd.	03/15/2007	1115	14.86	430.5	330	29.8	Y
31	12861 Galm Rd.	03/15/2007	1115	12.54	435.5	350	29.56	Y
31	12861 Galm Rd.	03/19/2007	1210	8.52	428.5	330	16.93	Y
31	12861 Galm Rd.	03/19/2007	1210	8.09	433.5	350	18.88	Y
32	10148 Culebra	01/30/2007	1245	2.4	367.5	320	10.23	N
32	10148 Culebra	02/06/2007	1007	1.28	419.5	350	5.62	N
32	10148 Culebra	02/09/2007	1307	2.42	373.5	310	7.23	N
32	10148 Culebra	02/10/2007	1145	1.27	387.5	320	4.61	N
32	10148 Culebra	02/12/2007	0850	1.42	367.5	320	6.26	N
32	10148 Culebra	02/12/2007	1340	1.17	365.5	320	5.89	N
32	10148 Culebra	02/13/2007	0832	1.65	383	320	5.83	N
32	10148 Culebra	02/13/2007	1344	1.84	383	320	7.55	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
32	10148 Culebra	02/14/2007	1208	1.67	374.5	320	6.76	N
32	10148 Culebra	02/14/2007	1550	1.42	373	310	6.31	N
32	10148 Culebra	02/15/2007	1405	1.84	381	320	5.63	N
32	10148 Culebra	02/15/2007	1635	0.72	394.5	310	3.57	N
32	10148 Culebra	02/16/2007	0955	0.95	381.5	340	5.63	N
32	10148 Culebra	02/16/2007	1117	2.76	367	320	4.96	N
32	10148 Culebra	02/16/2007	1500	0.96	417.5	330	5.21	N
32	10148 Culebra	02/17/2007	1000	1.74	412	320	4.13	N
32	10148 Culebra	02/17/2007	1055	0.89	390	350	4.37	N
32	10148 Culebra	02/17/2007	1615	1.3	412.5	320	5.17	N
32	10148 Culebra	02/18/2007	1000	2.03	384.5	340	5.85	N
32	10148 Culebra	02/18/2007	1430	1.13	376.5	320	4.84	N
32	10148 Culebra	02/19/2007	1700	1.09	378.5	310	4.94	N
32	10148 Culebra	02/20/2007	1020	2.25	412	330	5.45	N
32	10148 Culebra	02/20/2007	1440	2.17	410.5	330	5.3	N
32	10148 Culebra	02/21/2007	1045	1.82	433	330	4.62	N
32	10148 Culebra	02/21/2007	1450	2.04	385	330	5.11	N
32	10148 Culebra	02/22/2007	1050	1.91	393	330	5.56	N
32	10148 Culebra	02/22/2007	1510	1.37	423	330	4.53	N
32	10148 Culebra	02/23/2007	1015	0.9	389.5	330	3.56	N
32	10148 Culebra	02/23/2007	1405	1.18	388	330	4.46	N
32	10148 Culebra	02/24/2007	1053	1.83	395.5	330	5.16	N
32	10148 Culebra	02/24/2007	1615	2.08	393	330	5.75	N
32	10148 Culebra	02/25/2007	1108	1.41	381	330	4.44	N
32	10148 Culebra	02/25/2007	1550	1.26	370	330	4.05	N
32	10148 Culebra	02/26/2007	1017	1.58	388	330	4.57	N
32	10148 Culebra	02/26/2007	1615	2.76	399	330	6.1	N
32	10148 Culebra	02/27/2007	1028	1.47	428	330	4.41	N
32	10148 Culebra	02/27/2007	1603	1.46	422.5	330	4.25	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
33	9514 Braun Rd at Old Tezel	01/30/2007	1410	1.7	387.5	320	6.89	N
33	9514 Braun Rd at Old Tezel	02/06/2007	1139	1.78	365	320	6.46	N
33	9514 Braun Rd at Old Tezel	02/09/2007	1420	2.2	402	300	7.49	N
33	9514 Braun Rd at Old Tezel	02/12/2007	1015	1.85	372.5	320	8.19	N
33	9514 Braun Rd at Old Tezel	02/12/2007	1445	1.9	387	320	8.08	N
33	9514 Braun Rd at Old Tezel	02/13/2007	0920	1.85	382.5	320	6.23	N
33	9514 Braun Rd at Old Tezel	02/13/2007	1442	1.89	376.5	320	6.06	N
33	9514 Braun Rd at Old Tezel	02/14/2007	1304	1.52	379	310	5.11	N
33	9514 Braun Rd at Old Tezel	02/14/2007	1625	1.98	378.5	310	5.51	N
33	9514 Braun Rd at Old Tezel	02/14/2007	1645	1.81	383	320	6.16	N
33	9514 Braun Rd at Old Tezel	02/15/2007	1130	2.43	381.5	310	7.86	N
33	9514 Braun Rd at Old Tezel	02/15/2007	1601	1.98	393.5	320	6.28	N
33	9514 Braun Rd at Old Tezel	02/16/2007	1100	1.08	379.5	310	4.34	N
33	9514 Braun Rd at Old Tezel	02/16/2007	1505		384.5	340	4.42	N
33	9514 Braun Rd at Old Tezel	02/17/2007	1200	1.5	384.5	340	5.33	N
33	9514 Braun Rd at Old Tezel	02/19/2007	1034	1.21	406	330	5.46	N
33	9514 Braun Rd at Old Tezel	02/19/2007	1400	1.46	363	310	6.1	N
33	9514 Braun Rd at Old Tezel	02/20/2007	0945	4.85	412	300	17.46	Y
33	9514 Braun Rd at Old	02/20/2007	1405	4.93	404.5	300	15.38	Y

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
	Tezel							
33	9514 Braun Rd at Old Tezel	02/21/2007	1001	2.76	412.5	300	7.75	N
33	9514 Braun Rd at Old Tezel	02/21/2007	1420	2.43	401	300	5.52	N
33	9514 Braun Rd at Old Tezel	02/22/2007	0945	3.14	393.5	330	8.18	N
33	9514 Braun Rd at Old Tezel	02/22/2007	1423	2.2	388	330	7.19	N
33	9514 Braun Rd at Old Tezel	02/23/2007	0942	1.21	422.5	330	4.74	N
33	9514 Braun Rd at Old Tezel	02/23/2007	1410	1.02	389.5	330	3.69	N
33	9514 Braun Rd at Old Tezel	02/24/2007	1003	2.2	370.5	330	5.67	N
33	9514 Braun Rd at Old Tezel	02/26/2007	0945	2.08	423	330	5.17	N
33	9514 Braun Rd at Old Tezel	02/26/2007	1534	2.32	423	330	5.72	N
33	9514 Braun Rd at Old Tezel	02/27/2007	0958	1.91	407	330	4.78	N
33	9514 Braun Rd at Old Tezel	02/27/2007	1525	2.03	406.5	330	5.63	N
33	9514 Braun Rd at Old Tezel	02/28/2007	0954	1.67	370.5	330	5.4	N
33	9514 Braun Rd at Old Tezel	02/28/2007	1423	1.63	418	330	4.63	N
33	9514 Braun Rd at Old Tezel	03/01/2007	0954	2.11	370.5	330	7.04	N
33	9514 Braun Rd at Old Tezel	03/01/2007	1526	1.58	422.5	330	4.23	N
33	9514 Braun Rd at Old Tezel	03/02/2007	0930	2.07	399	330	5.35	N
33	9514 Braun Rd at Old Tezel	03/02/2007	1500	1.96	399	330	4.84	N
33	9514 Braun Rd at Old Tezel	03/03/2007	0839	2.3	389.5	330	5.08	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
33	9514 Braun Rd at Old Tezel	03/03/2007	1420	2.5	388	330	5.68	N
33	9514 Braun Rd at Old Tezel	03/05/2007	0935	1.49	404.5	330	3.8	N
33	9514 Braun Rd at Old Tezel	03/05/2007	1500	2.09	404.5	330	5.24	N
33	9514 Braun Rd at Old Tezel	03/06/2007	0928	1.63	393.5	330	4.48	N
33	9514 Braun Rd at Old Tezel	03/06/2007	1415	1.8	417.5	330	4.97	N
33	9514 Braun Rd at Old Tezel	03/07/2007	0945	1.6	423	330	4.8	N
33	9514 Braun Rd at Old Tezel	03/08/2007	1015	1.66	433	330	4.79	N
33	9514 Braun Rd at Old Tezel	03/09/2007	1015	1.69	423	330	5.16	N
33	9514 Braun Rd at Old Tezel	03/12/2007	0946	2.07	404.5	330	5.27	N
33	9514 Braun Rd at Old Tezel	03/13/2007	0941	1.72	406.5	330	5.27	N
33	9514 Braun Rd at Old Tezel	03/13/2007	1307	1.63	428	330	4.29	N
33	9514 Braun Rd at Old Tezel	03/14/2007	0947	1.59	404.5	330	4.13	N
33	9514 Braun Rd at Old Tezel	03/15/2007	0946	1.29	429.5	330	3.51	N
33	9514 Braun Rd at Old Tezel	03/15/2007	1400	2.21	415	330	5.31	N
33	9514 Braun Rd at Old Tezel	03/16/2007	0901	1.81	415.5	330	4.81	N
33	9514 Braun Rd at Old Tezel	03/16/2007	0930	1.52	394.5	330	4.03	N
33	9514 Braun Rd at Old Tezel	03/16/2007	1325	1.96	389.5	330	4.96	N
33	9514 Braun Rd at Old Tezel	03/19/2007	0951	2.24	418	330	5.46	N
33	9514 Braun Rd at Old	03/20/2007	0935	2.42	422.5	330	5.83	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
	Tezel							
33	9514 Braun Rd at Old Tezel	03/20/2007	1501	5.27	433	330	11.68	N
33	9514 Braun Rd at Old Tezel	03/21/2007	0925	2.37	433.5	330	5.49	N
33	9514 Braun Rd at Old Tezel	03/22/2007	0939	2.03	422.5	330	5.22	N
33	9514 Braun Rd at Old Tezel	03/23/2007	0930	2.44	370.5	330	5.69	N
33	9514 Braun Rd at Old Tezel	03/26/2007	0940	2.55	370.5	330	5.29	N
34	11023 Shaenfield Rd.	01/30/2007	1435	1.91	376	320	7.1	N
34	11023 Shaenfield Rd.	02/09/2007	1720	2.13	366.5	310	6.24	N
34	11023 Shaenfield Rd.	02/12/2007	1245	1.62	400	340	4.56	N
34	11023 Shaenfield Rd.	02/12/2007	1520	1.84	389	320	7.47	N
34	11023 Shaenfield Rd.	02/13/2007	1025	1.6	394.5	310	5.51	N
34	11023 Shaenfield Rd.	02/14/2007	1229	1.87	405.5	350	5.9	N
34	11023 Shaenfield Rd.	02/14/2007	1610	1.2	403.5	320	4.99	N
34	11023 Shaenfield Rd.	02/15/2007	1441	1.79	377	310	5.61	N
34	11023 Shaenfield Rd.	02/16/2007	1010	1.78	412	330	4.7	N
34	11023 Shaenfield Rd.	02/16/2007	1530	1.33	423	330	5.45	N
34	11023 Shaenfield Rd.	02/17/2007	1020	0.96	384.5	340	3.86	N
34	11023 Shaenfield Rd.	02/17/2007	1648	1.28	400.5	310	4.42	N
34	11023 Shaenfield Rd.	02/18/2007	1030	0.62	419.5	350	4.65	N
34	11023 Shaenfield Rd.	02/18/2007	1455	0.75	422.5	330	4.3	N
34	11023 Shaenfield Rd.	02/19/2007	1140	1.92	463	350	9.72	N
34	11023 Shaenfield Rd.	02/19/2007	1155	1.5	387	320	6.	N
34	11023 Shaenfield Rd.	02/19/2007	1700	1.38	418	320	5.59	N
34	11023 Shaenfield Rd.	02/19/2007	1718	2.17	410	330	5.24	N
34	11023 Shaenfield Rd.	02/20/2007	1500	2.04	404	330	5.7	N
34	11023 Shaenfield Rd.	02/21/2007	1050	2.88	408.5	300	6.27	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
34	11023 Shaenfield Rd.	02/21/2007	1107	1.83	405	330	4.54	N
34	11023 Shaenfield Rd.	02/21/2007	1510	2.35	393.5	330	5.74	N
34	11023 Shaenfield Rd.	02/22/2007	1037	1.63	404.5	330	4.45	N
34	11023 Shaenfield Rd.	02/22/2007	1540	1.91	422.5	330	6.09	N
34	11023 Shaenfield Rd.	02/23/2007	0756	0.97	423	330	3.41	N
34	11023 Shaenfield Rd.	02/23/2007	1029	0.96	410.5	360	5.05	N
34	11023 Shaenfield Rd.	02/23/2007	1500	1.06	388.5	330	3.61	N
34	11023 Shaenfield Rd.	02/24/2007	1118	1.95	399	330	5.42	N
34	11023 Shaenfield Rd.	02/24/2007	1638	2.57	423	330	6.35	N
34	11023 Shaenfield Rd.	02/25/2007	1135	1.82	422.5	330	4.68	N
34	11023 Shaenfield Rd.	02/25/2007	1618	2.17	407	330	5.22	N
34	11023 Shaenfield Rd.	02/26/2007	1038	1.66	399	330	3.96	N
34	11023 Shaenfield Rd.	02/27/2007	1053	1.95	388	330	4.99	N
34	11023 Shaenfield Rd.	02/27/2007	1635	1.35	418	330	4.75	N
34	11023 Shaenfield Rd.	02/28/2007	1055	2.49	424.5	330	5.61	N
34	11023 Shaenfield Rd.	02/28/2007	1517	1.44	423	330	3.93	N
34	11023 Shaenfield Rd.	03/01/2007	1045	1.54	395.5	330	3.96	N
34	11023 Shaenfield Rd.	03/01/2007	1608	1.81	406.5	330	5.4	N
34	11023 Shaenfield Rd.	03/02/2007	1015	1.84	388	330	5.33	N
34	11023 Shaenfield Rd.	03/02/2007	1530	1.95	404.5	330	5.15	N
34	11023 Shaenfield Rd.	03/03/2007	0930	2.16	370.5	330	5.21	N
34	11023 Shaenfield Rd.	03/03/2007	1458	2.15	371.5	330	4.57	N
34	11023 Shaenfield Rd.	03/04/2007	1055	2.31	407	330	5.69	N
34	11023 Shaenfield Rd.	03/04/2007	1531	2.26	370.5	330	6.84	N
34	11023 Shaenfield Rd.	03/05/2007	1025	1.75	404.5	330	4.66	N
34	11023 Shaenfield Rd.	03/05/2007	1603	1.61	404.5	330	4.45	N
34	11023 Shaenfield Rd.	03/06/2007	1020	1.78	406.5	330	4.44	N
34	11023 Shaenfield Rd.	03/06/2007	1500	1.64	407	330	5.11	N
34	11023 Shaenfield Rd.	03/07/2007	1030	1.62	404.5	330	4.51	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
34	11023 Shaenfield Rd.	03/08/2007	1110	1.55	405.5	330	4.05	N
34	11023 Shaenfield Rd.	03/09/2007	1059	1.81	404	330	4.73	N
34	11023 Shaenfield Rd.	03/10/2007	1024	1.37	433	330	3.98	N
34	11023 Shaenfield Rd.	03/11/2007	1030	1.6	399	330	4.06	N
34	11023 Shaenfield Rd.	03/12/2007	1035	1.67	405.5	330	4.37	N
34	11023 Shaenfield Rd.	03/13/2007	1029	1.8	370.5	330	5.14	N
34	11023 Shaenfield Rd.	03/14/2007	1034	1.64	412	330	4.13	N
34	11023 Shaenfield Rd.	03/14/2007	1230	1.87	404.5	330	4.62	N
34	11023 Shaenfield Rd.	03/15/2007	1028	1.84	408	360	4.33	N
34	11023 Shaenfield Rd.	03/15/2007	1315	1.72	422.5	330	4.21	N
34	11023 Shaenfield Rd.	03/16/2007	1025	1.44	422.5	330	4.63	N
34	11023 Shaenfield Rd.	03/16/2007	1219	1.75	387.5	330	4.6	N
34	11023 Shaenfield Rd.	03/17/2007	0949	1.61	408	360	4.29	N
34	11023 Shaenfield Rd.	03/19/2007	1021	1.76	408	360	4.79	N
34	11023 Shaenfield Rd.	03/20/2007	0804	1.89	370	330	5.43	N
34	11023 Shaenfield Rd.	03/20/2007	1020	2.63	401.5	330	5.78	N
34	11023 Shaenfield Rd.	03/21/2007	1005	2.15	370	330	5.03	N
34	11023 Shaenfield Rd.	03/22/2007	1029	1.54	423	330	4.35	N
34	11023 Shaenfield Rd.	03/23/2007	1020	1.94	430	330	4.36	N
34	11023 Shaenfield Rd.	03/24/2007	1030	1.35	450.5	330	3.45	N
34	11023 Shaenfield Rd.	03/25/2007	1057	1.61	370	330	5.42	N
34	11023 Shaenfield Rd.	03/26/2007	1020	2.44	422.5	330	5.21	N
34	11023 Shaenfield Rd.	04/09/2007	1135	2.68	371.5	330	10.78	N
35	6569 Old Tezel Rd.	01/30/2007	1325	1.79	381.5	320	5.7	N
35	6569 Old Tezel Rd.	01/30/2007	1325	-0.09	473.5	280	2.19	N
35	6569 Old Tezel Rd.	02/06/2007	1110	1.37	399.5	330	6.73	N
35	6569 Old Tezel Rd.	02/09/2007	1345	2.11	385	320	6.48	N
35	6569 Old Tezel Rd.	02/10/2007	1003	1.57	433	350	6.64	N
35	6569 Old Tezel Rd.	02/12/2007	0930	1.97	391	320	8.88	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
35	6569 Old Tezel Rd.	02/12/2007	1406	1.6	387.5	320	7.56	N
35	6569 Old Tezel Rd.	02/13/2007	1405	2.05	389	320	7.87	N
35	6569 Old Tezel Rd.	02/14/2007	1140	1.91	392.5	320	8.56	N
35	6569 Old Tezel Rd.	02/14/2007	1535	1.96	381.5	320	7.18	N
35	6569 Old Tezel Rd.	02/15/2007	1339	1.34	423	330	4.83	N
35	6569 Old Tezel Rd.	02/16/2007	0930	1.03	398	320	4.08	N
35	6569 Old Tezel Rd.	02/16/2007	1430	1.61	428	320	4.31	N
35	6569 Old Tezel Rd.	02/17/2007	0940	0.5	401	340	4.04	N
35	6569 Old Tezel Rd.	02/17/2007	1545	0.81	416.5	310	8.62	N
35	6569 Old Tezel Rd.	02/18/2007	0935	0.84	420	320	3.9	N
35	6569 Old Tezel Rd.	02/18/2007	1410	0.83	376	320	4.22	N
35	6569 Old Tezel Rd.	02/19/2007	1135	1.11	419	350	4.01	N
35	6569 Old Tezel Rd.	02/19/2007	1648	0.99	387	320	4.13	N
35	6569 Old Tezel Rd.	02/20/2007	1418	1.51	407	330	4.39	N
35	6569 Old Tezel Rd.	02/21/2007	1000	1.92	435.5	360	4.52	N
35	6569 Old Tezel Rd.	02/21/2007	1030	1.9	399.5	330	4.9	N
35	6569 Old Tezel Rd.	02/21/2007	1438	2.42	410.5	300	6.89	N
35	6569 Old Tezel Rd.	02/22/2007	1445	2.52	378.5	330	6.82	N
35	6569 Old Tezel Rd.	02/23/2007	1000	0.93	454	330	3.15	N
35	6569 Old Tezel Rd.	02/23/2007	1430	0.94	408	360	3.67	N
35	6569 Old Tezel Rd.	02/24/2007	1037	2	405	330	5.54	N
35	6569 Old Tezel Rd.	02/24/2007	1343	2.03	399	330	5.79	N
35	6569 Old Tezel Rd.	02/25/2007	1030	1.31	408	330	4.17	N
35	6569 Old Tezel Rd.	02/25/2007	1528	1.69	423.5	330	4.41	N
35	6569 Old Tezel Rd.	02/26/2007	1004	1.56	404.5	330	3.89	N
35	6569 Old Tezel Rd.	02/26/2007	1555	2.01	399	330	5.04	N
35	6569 Old Tezel Rd.	02/27/2007	1010	1.72	424	330	4.68	N
35	6569 Old Tezel Rd.	02/27/2007	1549	1.77	385	330	5.74	N
35	6569 Old Tezel Rd.	02/28/2007	1015	1.92	370.5	330	5.7	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
35	6569 Old Tezel Rd.	02/28/2007	1441	1.6	415	330	3.78	N
35	6569 Old Tezel Rd.	03/01/2007	1010	1.95	403	330	6.01	N
35	6569 Old Tezel Rd.	03/01/2007	1547	2.12	406	330	4.78	N
35	6569 Old Tezel Rd.	03/02/2007	0955	1.68	433.5	330	3.96	N
35	6569 Old Tezel Rd.	03/02/2007	1515	2.15	388	330	5.49	N
35	6569 Old Tezel Rd.	03/03/2007	0913	2.24	407	330	5.7	N
35	6569 Old Tezel Rd.	03/03/2007	1440	2.53	406.5	330	6.34	N
35	6569 Old Tezel Rd.	03/04/2007	1027	2.35	404.5	330	5.65	N
35	6569 Old Tezel Rd.	03/04/2007	1511	1.9	424	330	4.38	N
35	6569 Old Tezel Rd.	03/05/2007	0958	1.48	406.5	330	4.6	N
35	6569 Old Tezel Rd.	03/05/2007	1530	1.52	404	330	4.08	N
35	6569 Old Tezel Rd.	03/06/2007	0848	1.58	404.5	330	4.57	N
35	6569 Old Tezel Rd.	03/06/2007	1435	1.58	423.5	330	4.52	N
35	6569 Old Tezel Rd.	03/07/2007	1000	1.63	438	330	4.16	N
35	6569 Old Tezel Rd.	03/08/2007	1035	1.63	422.5	330	5.28	N
35	6569 Old Tezel Rd.	03/09/2007	1039	1.62	418	330	4.72	N
35	6569 Old Tezel Rd.	03/10/2007	1000	1.63	395.5	330	4.78	N
35	6569 Old Tezel Rd.	03/11/2007	1000	1.67	399.5	330	4.72	N
35	6569 Old Tezel Rd.	03/12/2007	1010	1.67	370	330	5.44	N
35	6569 Old Tezel Rd.	03/13/2007	1005	1.72	388	330	4.56	N
35	6569 Old Tezel Rd.	03/13/2007	1323	1.79	388	330	5.33	N
35	6569 Old Tezel Rd.	03/14/2007	1010	1.42	423.5	330	4.18	N
35	6569 Old Tezel Rd.	03/15/2007	1001	1.62	405	330	4.07	N
35	6569 Old Tezel Rd.	03/15/2007	1420	1.83	407	330	5.03	N
35	6569 Old Tezel Rd.	03/16/2007	0955	1.38	389.5	330	3.87	N
35	6569 Old Tezel Rd.	03/17/2007	0918	1.7	388	330	4.9	N
35	6569 Old Tezel Rd.	03/18/2007	0856	2.25	407.5	330	5.17	N
35	6569 Old Tezel Rd.	03/19/2007	0959	1.76	395.5	330	5.15	N
35	6569 Old Tezel Rd.	03/20/2007	0955	2.06	422.5	330	5.11	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
35	6569 Old Tezel Rd.	03/21/2007	0947	1.81	423.5	330	3.65	N
35	6569 Old Tezel Rd.	03/22/2007	1005	1.57	392.5	330	4.05	N
35	6569 Old Tezel Rd.	03/23/2007	0949	1.86	424	330	4.73	N
35	6569 Old Tezel Rd.	03/24/2007	1000	1.43	427	330	4.02	N
35	6569 Old Tezel Rd.	03/25/2007	1035	1.47	392	330	4.53	N
35	6569 Old Tezel Rd.	03/26/2007	0958	2.34	410.5	360	4.76	N
35	6569 Old Tezel Rd.	04/09/2007	1055	2.43	370.5	330	11.04	N
36	Tinopal CBS-X	02/02/2007	1402	80.31	462	380	262.84	N
36	Tinopal CBS-X	02/26/2007	1300	231.59	448	380	678.23	Y
36	Tinopal CBS-X	02/26/2007	1307	588.94	400.5	300	1004.08	Y
36	Tinopal CBS-X	02/26/2007	1314	732.25	395.5	300	1010.88	Y
36	Tinopal CBS-X	02/27/2007	0000	570.3	391.5	350	1002.11	Y
36	Tinopal CBS-X	02/27/2007	0000	569.56	395.5	330	1005.43	Y
36	Tinopal CBS-X	02/27/2007	0000	221.13	432	350	840.15	Y
36	Tinopal CBS-X	02/27/2007	0000	144.69	434.5	350	552.05	Y
37	Bandera Rd.	02/02/2007	1410	5.46	399	330	12.41	N
38	Anderson	01/26/2007	1230	1.65	376.5	320	6.06	N
38	Anderson	01/29/2007	1145	6.08	404.5	330	14.55	N
38	Anderson	02/15/2007	1700	1.57	389.5	330	4.32	N
38	Anderson	02/16/2007	1139	1.04	394	310	6.05	N
38	Anderson	02/17/2007	1117	0.86	379.5	310	4.67	N
39	Piper's Meadow	01/26/2007	1145	1.59	379	310	5.44	N
39	Piper's Meadow	02/15/2007	1545	8.63	410.5	320	4.06	N
39	Piper's Meadow	02/16/2007	1030	1.01	393.5	330	4.57	N
39	Piper's Meadow	02/17/2007	0957	0.51	366	310	3.71	N
40	Wurzbach	01/26/2007	1120	1.74	361.5	320	6.56	N
40	Wurzbach	02/15/2007	1524	3.01	412.5	360	3.95	N
40	Wurzbach	02/16/2007	1006	1.36	422.5	330	4.49	N
40	Wurzbach	02/17/2007	0935	0.83	397.5	350	3.96	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
40	Wurzbach	03/06/2007	1537	3.44	407	330	7.26	N
41	Micron	01/26/2007	1200	2.17	385	320	9.43	N
41	Micron	02/15/2007	1600	0.92	374.5	310	4.73	N
41	Micron	02/16/2007	1042	0.84	400	300	8.64	N
41	Micron	02/17/2007	1017	0.76	425	340	3.34	N
42	Dreamhill	01/26/2007	1100	1.91	394	310	7.27	N
42	Dreamhill	02/15/2007	1510	1.05	391	320	4.07	N
42	Dreamhill	02/16/2007	0948	1.88	363	310	4.92	N
42	Dreamhill	02/17/2007	0912	1.32	383	320	3.89	N
44	10293 FM 1560N	01/26/2007	1010	2.38	392.5	320	6.94	N
44	10293 FM 1560N	02/05/2007	1420	1.68	381	320	5.97	N
44	10293 FM 1560N	02/16/2007	1540	1.63	366	310	4.95	N
44	10293 FM 1560N	02/28/2007	1015	2.84	389.5	330	5.66	N
44	10293 FM 1560N	03/01/2007	1105	1.81	418	330	4.94	N
44	10293 FM 1560N	03/01/2007	1620	1.93	370	330	6.37	N
44	10293 FM 1560N	03/02/2007	1025	1.61	407.5	330	4.23	N
44	10293 FM 1560N	03/02/2007	1548	2.15	404.5	330	6.36	N
44	10293 FM 1560N	03/05/2007	1044	1.76	408	360	5.26	N
44	10293 FM 1560N	03/05/2007	1624	1.42	424	330	4.04	N
44	10293 FM 1560N	03/06/2007	1045	1.67	404.5	330	4.86	N
44	10293 FM 1560N	03/06/2007	1520	1.79	422.5	330	4.99	N
44	10293 FM 1560N	03/07/2007	1105	1.64	388	330	4.45	N
44	10293 FM 1560N	03/08/2007	1110	1.84	422.5	330	4.93	N
44	10293 FM 1560N	03/09/2007	1124	1.62	395.5	330	6.43	N
44	10293 FM 1560N	03/12/2007	1046	1.34	395.5	330	3.9	N
44	10293 FM 1560N	03/13/2007	1041	1.61	406.5	330	4.77	N
44	10293 FM 1560N	03/14/2007	1055	1.78	371.5	330	4.82	N
44	10293 FM 1560N	03/14/2007	1235	2.87	411	300	8.54	N
44	10293 FM 1560N	03/15/2007	1045	1.6	415.5	330	4.78	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
44	10293 FM 1560N	03/15/2007	1335	1.64	424.5	330	4.45	N
44	10293 FM 1560N	03/16/2007	1045	1.69	422	330	3.93	N
44	10293 FM 1560N	03/19/2007	1040	1.79	389.5	330	4.41	N
44	10293 FM 1560N	03/19/2007	1050	1.79	389.5	330	4.41	N
44	10293 FM 1560N	03/21/2007	1030	2.27	370.5	330	5.49	N
44	10293 FM 1560N	03/22/2007	1044	1.61	388	330	4.61	N
44	10293 FM 1560N	03/23/2007	1045	2.28	410.5	330	4.98	N
44	10293 FM 1560N	03/26/2007	1045	2.61	370	330	5.56	N
45	7450 Prue Rd.	02/05/2007	0925	1.49	361	320	5.25	N
45	7450 Prue Rd.	02/08/2007	1101	1.62	394.5	310	5.38	N
45	7450 Prue Rd.	02/10/2007	1625	1.42	362.5	310	5.56	N
45	7450 Prue Rd.	02/12/2007	1130	1.71	404.5	330	5.07	N
45	7450 Prue Rd.	02/12/2007	1430	2.09	360.5	320	7.48	N
45	7450 Prue Rd.	02/13/2007	0905	1.25	385	320	5.53	N
45	7450 Prue Rd.	02/13/2007	1340	1.32	391	320	5.41	N
45	7450 Prue Rd.	02/14/2007	1006	1.93	408.5	330	5.8	N
45	7450 Prue Rd.	02/14/2007	1428	1.22	401	310	4.7	N
45	7450 Prue Rd.	02/15/2007	0850	1.67	419	320	4.51	N
45	7450 Prue Rd.	02/15/2007	1320	1.1	370.5	330	4.1	N
45	7450 Prue Rd.	02/16/2007	1120	0.76	389.5	330	3.77	N
45	7450 Prue Rd.	02/16/2007	1535	0.79	419	310	5.06	N
45	7450 Prue Rd.	02/17/2007	0830	0.71	467	340	3.32	N
45	7450 Prue Rd.	02/17/2007	1425	0.98	394	310	5.54	N
45	7450 Prue Rd.	02/18/2007	0820	0.52	410.5	320	4.66	N
45	7450 Prue Rd.	02/18/2007	1315	1.01	394	310	4.14	N
45	7450 Prue Rd.	02/19/2007	1015	0.52	400	340	3.57	N
45	7450 Prue Rd.	02/19/2007	1423	0.6	407	350	4.54	N
45	7450 Prue Rd.	02/20/2007	0915	1.41	415.5	330	5.03	N
45	7450 Prue Rd.	02/20/2007	1245	1.89	423.5	330	5.51	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
45	7450 Prue Rd.	02/21/2007	0939	4.7	414.5	300	12.74	Y
45	7450 Prue Rd.	02/21/2007	1350	1.6	388	330	5.23	N
45	7450 Prue Rd.	02/22/2007	0902	2.03	399	330	4.77	N
45	7450 Prue Rd.	02/22/2007	1015	1.74	394	330	5.35	N
45	7450 Prue Rd.	02/22/2007	1336	1.77	363	300	5.54	N
45	7450 Prue Rd.	02/23/2007	0905	0.81	385	330	3.43	N
45	7450 Prue Rd.	02/23/2007	1313	0.88	399	330	3.71	N
45	7450 Prue Rd.	02/24/2007	0842	1.53	408	330	4.51	N
45	7450 Prue Rd.	02/24/2007	1414	1.52	394	330	4.6	N
45	7450 Prue Rd.	02/25/2007	0920	1.39	396	330	3.96	N
45	7450 Prue Rd.	02/25/2007	1405	1.13	385	330	3.24	N
45	7450 Prue Rd.	02/26/2007	0900	1.21	422.5	330	3.58	N
45	7450 Prue Rd.	02/26/2007	1443	1.25	370	330	3.53	N
45	7450 Prue Rd.	02/27/2007	0900	2.19	370.5	330	6.11	N
45	7450 Prue Rd.	02/27/2007	1433	1.6	405.5	330	4.42	N
45	7450 Prue Rd.	02/28/2007	0900	2.06	399	330	5.21	N
45	7450 Prue Rd.	02/28/2007	1335	1.94	370	330	5.38	N
45	7450 Prue Rd.	03/01/2007	0921	2.09	370	330	6.04	N
45	7450 Prue Rd.	03/01/2007	1345	1.6	428	330	4.8	N
45	7450 Prue Rd.	03/02/2007	0851	1.72	389.5	330	5.07	N
45	7450 Prue Rd.	03/02/2007	1420	1.42	427	330	3.42	N
45	7450 Prue Rd.	03/03/2007	0750	2.25	395.5	330	5.63	N
45	7450 Prue Rd.	03/04/2007	0912	2.1	423	330	5.41	N
45	7450 Prue Rd.	03/04/2007	1424	1.96	374	330	4.94	N
45	7450 Prue Rd.	03/05/2007	0841	1.39	370.5	330	4.52	N
45	7450 Prue Rd.	03/05/2007	1400	1.83	382.5	330	5.03	N
45	7450 Prue Rd.	03/06/2007	0853	1.51	407.5	330	3.89	N
45	7450 Prue Rd.	03/06/2007	1314	1.32	415.5	330	4.04	N
45	7450 Prue Rd.	03/07/2007	0915	1.48	407.5	330	3.98	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
45	7450 Prue Rd.	03/08/2007	0910	1.49	408	360	3.99	N
45	7450 Prue Rd.	03/09/2007	0910	1.2	399	330	3.87	N
45	7450 Prue Rd.	03/10/2007	0910	1.08	408	360	3.33	N
45	7450 Prue Rd.	03/11/2007	0915	1.54	387.5	330	4.88	N
45	7450 Prue Rd.	03/12/2007	0905	1.39	370.5	330	3.56	N
45	7450 Prue Rd.	03/13/2007	1158	1.53	380	300	4.	N
45	7450 Prue Rd.	03/14/2007	0904	1.49	370.5	330	4.63	N
45	7450 Prue Rd.	03/14/2007	1405	1.81	399.5	330	5.03	N
45	7450 Prue Rd.	03/15/2007	0848	1.36	422.5	330	4.74	N
45	7450 Prue Rd.	03/15/2007	1353	1.5	407	330	4.53	N
45	7450 Prue Rd.	03/16/2007	0839	1.51	388.5	330	3.73	N
45	7450 Prue Rd.	03/16/2007	1050	1.39	415.5	330	3.81	N
45	7450 Prue Rd.	03/16/2007	1412	1.54	406.5	330	4.52	N
45	7450 Prue Rd.	03/17/2007	0805	1.53	370	330	4.56	N
45	7450 Prue Rd.	03/18/2007	0801	1.85	388	330	5.26	N
45	7450 Prue Rd.	03/19/2007	0909	1.21	408	360	4.05	N
45	7450 Prue Rd.	03/20/2007	0824	1.99	383	300	4.55	N
45	7450 Prue Rd.	03/21/2007	0845	1.99	415	330	4.6	N
45	7450 Prue Rd.	03/22/2007	0905	1.41	370.5	330	4.31	N
45	7450 Prue Rd.	03/23/2007	0859	1.69	362.5	300	3.34	N
45	7450 Prue Rd.	03/24/2007	0835	2.48	422.5	330	6.35	N
45	7450 Prue Rd.	03/25/2007	0930	1.7	399.5	330	4.49	N
45	7450 Prue Rd.	03/26/2007	0908	2.12	358	300	4.61	N
45	7450 Prue Rd.	04/09/2007	1008	1.87	370.5	330	10.42	N
46	11460 Hausman	02/05/2007	1201	1.68	381.5	320	6.02	N
46	11460 Hausman	02/08/2007	1507	1.48	404.5	330	4.32	N
46	11460 Hausman	02/09/2007	1415	2.06	387.5	320	7.3	N
46	11460 Hausman	02/12/2007	1100	1.94	384	340	5.24	N
46	11460 Hausman	02/13/2007	0935	1.55	362.5	310	7.05	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
46	11460 Hausman	02/13/2007	1410	1.03	376	320	5.3	N
46	11460 Hausman	02/14/2007	1050	2.6	385	320	8.77	N
46	11460 Hausman	02/14/2007	1445	1.87	387.5	320	6.01	N
46	11460 Hausman	02/15/2007	0915	1.77	419	320	4.12	N
46	11460 Hausman	02/15/2007	1345	0.79	397.5	350	4.72	N
46	11460 Hausman	02/16/2007	1146	0.62	384	340	4.1	N
46	11460 Hausman	02/16/2007	1448	0.85	410.5	320	4.24	N
46	11460 Hausman	02/17/2007	0850	1.11	360	320	4.51	N
46	11460 Hausman	02/17/2007	1455	0.83	394	310	5.26	N
46	11460 Hausman	02/18/2007	0845	0.65	396.5	350	3.72	N
46	11460 Hausman	02/18/2007	1330	1.77	407	330	4.37	N
46	11460 Hausman	02/19/2007	0957	0.56	429.5	330	4.35	N
46	11460 Hausman	02/19/2007	1438	0.64	423	330	4.22	N
46	11460 Hausman	02/20/2007	0925	1.76	407	330	5.13	N
46	11460 Hausman	02/20/2007	1230	3.09	403	300	7.98	N
46	11460 Hausman	02/21/2007	0954	1.8	395.5	330	4.22	N
46	11460 Hausman	02/21/2007	1307	1.76	388	330	4.66	N
46	11460 Hausman	02/22/2007	0929	2.26	415.5	330	5.33	N
46	11460 Hausman	02/22/2007	1350	1.78	399	330	4.97	N
46	11460 Hausman	02/23/2007	0918	1.15	407	330	3.73	N
46	11460 Hausman	02/23/2007	1323	0.7	370	330	2.92	N
46	11460 Hausman	02/24/2007	0919	1.91	406	330	5.35	N
46	11460 Hausman	02/24/2007	1324	1.84	370.5	330	5.41	N
46	11460 Hausman	02/25/2007	0940	1.56	370	330	4.85	N
46	11460 Hausman	02/25/2007	1429	1.64	422	330	4.09	N
46	11460 Hausman	02/26/2007	0917	2.28	423.5	360	6.98	N
46	11460 Hausman	02/26/2007	1501	2.21	404	330	5.99	N
46	11460 Hausman	02/27/2007	0924	1.55	396	330	4.87	N
46	11460 Hausman	02/28/2007	0920	1.47	423	330	4.31	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
46	11460 Hausman	02/28/2007	1355	2.06	371.5	300	4.82	N
46	11460 Hausman	03/14/2007	1350	1.67	363.5	300	4.43	N
46	11460 Hausman	03/15/2007	1452	2.07	406	330	5.52	N
46	11460 Hausman	03/16/2007	1339	1.58	414.5	330	4.05	N
48	6070 Babcock	02/05/2007	1000	1.1	394.5	310	4.86	N
48	6070 Babcock	02/08/2007	1253	1.55	379	310	5.09	N
48	6070 Babcock	02/09/2007	1115	3.25	413	320	7.8	N
48	6070 Babcock	02/11/2007	1203	1.53	427	330	4.98	N
48	6070 Babcock	02/12/2007	0930	2.06	365.5	310	6.33	N
48	6070 Babcock	02/12/2007	1330	1.93	376	320	5.88	N
48	6070 Babcock	02/13/2007	0805	0.95	376.5	320	4.93	N
48	6070 Babcock	02/13/2007	1245	0.98	383	320	5.	N
48	6070 Babcock	02/14/2007	0923	1.94	361	320	5.31	N
48	6070 Babcock	02/14/2007	1350	1.64	394.5	310	5.7	N
48	6070 Babcock	02/15/2007	0745	0.82	370.5	330	7.87	N
48	6070 Babcock	02/15/2007	1225	1.21	400.5	310	4.29	N
48	6070 Babcock	02/16/2007	0915	1.91	378.5	310	3.84	N
48	6070 Babcock	02/16/2007	1305	1.34	419.5	320	4.61	N
48	6070 Babcock	02/17/2007	0745	0.92	392	330	2.89	N
48	6070 Babcock	02/17/2007	1335	0.91	387.5	320	4.11	N
48	6070 Babcock	02/18/2007	0730	0.76	384.5	340	3.76	N
48	6070 Babcock	02/18/2007	1230	0.75	407	330	4.44	N
48	6070 Babcock	02/19/2007	1515	0.66	385	320	4.39	N
48	6070 Babcock	02/20/2007	0820	1.73	399	330	4.89	N
48	6070 Babcock	02/20/2007	1334	1.76	389.5	330	4.33	N
48	6070 Babcock	02/21/2007	0845	1.78	399	330	4.18	N
48	6070 Babcock	02/21/2007	1255	1.62	388.5	330	4.03	N
48	6070 Babcock	02/22/2007	0820	1.97	423	330	5.53	N
48	6070 Babcock	02/22/2007	1250	1.09	418	330	3.59	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
48	6070 Babcock	02/23/2007	0822	0.77	388	330	3.61	N
48	6070 Babcock	02/23/2007	1230	0.62	399	330	3.2	N
48	6070 Babcock	02/24/2007	0811	1.96	407	330	5.96	N
48	6070 Babcock	02/24/2007	1501	1.73	404.5	330	4.65	N
48	6070 Babcock	02/25/2007	0813	1.33	370.5	330	4.83	N
48	6070 Babcock	02/25/2007	1308	1.58	371.5	330	4.71	N
48	6070 Babcock	02/26/2007	0820	1.53	370.5	330	4.15	N
48	6070 Babcock	02/26/2007	1345	1.23	423	330	3.48	N
48	6070 Babcock	02/27/2007	0820	1.73	388	330	4.9	N
48	6070 Babcock	02/27/2007	1412	1.56	396	330	3.69	N
48	6070 Babcock	02/28/2007	0805	1.71	422.5	330	4.71	N
48	6070 Babcock	02/28/2007	1245	1.44	422.5	330	3.85	N
48	6070 Babcock	03/01/2007	0828	1.68	367	300	4.45	N
48	6070 Babcock	03/01/2007	1320	1.45	370.5	330	4.19	N
48	6070 Babcock	03/02/2007	0810	1.64	371	330	4.76	N
48	6070 Babcock	03/02/2007	1320	1.58	370.5	330	4.68	N
48	6070 Babcock	03/03/2007	0720	2.02	410.5	330	5.81	N
48	6070 Babcock	03/03/2007	1300	2.23	404.5	330	5.4	N
48	6070 Babcock	03/04/2007	0808	2.07	371.5	330	5.38	N
48	6070 Babcock	03/04/2007	1344	1.73	370	330	4.13	N
48	6070 Babcock	03/05/2007	0705	1.36	406	330	3.73	N
48	6070 Babcock	03/05/2007	1328	1.54	423	330	4.74	N
48	6070 Babcock	03/06/2007	0805	1.21	423	330	4.04	N
48	6070 Babcock	03/06/2007	1240	1.36	408	360	3.57	N
48	6070 Babcock	03/07/2007	0830	1.35	407.5	330	4.47	N
48	6070 Babcock	03/08/2007	0815	1.51	383	330	4.31	N
48	6070 Babcock	03/09/2007	0810	1.67	428.5	330	4.71	N
48	6070 Babcock	03/10/2007	0810	1.53	370.5	330	4.83	N
48	6070 Babcock	03/11/2007	0835	1.44	389.5	330	4.38	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
48	6070 Babcock	03/12/2007	0815	1.28	422.5	330	3.92	N
48	6070 Babcock	03/13/2007	0820	1.53	370.5	330	4.94	N
48	6070 Babcock	03/14/2007	0810	1.09	428	330	2.8	N
48	6070 Babcock	03/15/2007	0805	1.36	391.5	330	3.46	N
48	6070 Babcock	03/16/2007	0758	1.23	363	300	3.86	N
48	6070 Babcock	03/17/2007	0745	1.45	394	330	3.83	N
48	6070 Babcock	03/18/2007	0715	2.11	424	330	4.89	N
48	6070 Babcock	03/19/2007	0819	1.46	422.5	330	4.52	N
48	6070 Babcock	03/20/2007	0749	2.34	392	330	6.07	N
48	6070 Babcock	03/21/2007	0815	2.07	395.5	330	5.61	N
48	6070 Babcock	03/22/2007	0815	1.26	408	360	3.43	N
48	6070 Babcock	03/23/2007	0815	2.02	400	300	4.36	N
48	6070 Babcock	03/24/2007	0815	1.39	405.5	330	4.17	N
48	6070 Babcock	03/25/2007	1009	1.53	370	330	4.16	N
48	6070 Babcock	03/26/2007	0820	1.92	423	330	4.46	N
48	6070 Babcock	04/09/2007	0935	1.94	370	330	9.07	N
49	6837 Kitchener	01/20/2007	1000	1.66	379.5	310	4.84	N
49	6837 Kitchener	02/05/2007	1100	1.38	382.5	320	6.27	N
49	6837 Kitchener	02/08/2007	1401	1.85	418	350	5.24	N
49	6837 Kitchener	02/09/2007	1505	2.23	364.5	310	8.63	N
49	6837 Kitchener	02/10/2007	1525	1.34	394.5	310	5.66	N
49	6837 Kitchener	02/12/2007	1252	1.93	366	310	8.22	N
49	6837 Kitchener	02/12/2007	1400	1.93	362.5	310	6.29	N
49	6837 Kitchener	02/12/2007	1550	1.46	394.5	310	5.56	N
49	6837 Kitchener	02/13/2007	0830	0.46	385	340	4.23	N
49	6837 Kitchener	02/13/2007	1000	2.37	372	310	9.54	N
49	6837 Kitchener	02/13/2007	1310	1.06	365.5	310	5.03	N
49	6837 Kitchener	02/13/2007	1545	1.32	399	330	5.31	N
49	6837 Kitchener	02/14/2007	0941	1.18	404.5	330	4.66	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
49	6837 Kitchener	02/14/2007	1245	2.27	389.5	320	6.6	N
49	6837 Kitchener	02/14/2007	1410	1.16	406.5	330	4.72	N
49	6837 Kitchener	02/15/2007	0815	5.87	391.5	350	5.27	N
49	6837 Kitchener	02/15/2007	1250	2.88	373.5	310	3.66	N
49	6837 Kitchener	02/16/2007	1215	2.09	384.5	340	3.97	N
49	6837 Kitchener	02/16/2007	1405	0.65	382	310	4.49	N
49	6837 Kitchener	02/17/2007	0810	3.34	410.5	320	4.96	N
49	6837 Kitchener	02/17/2007	1050	2.11	422.5	340	5.02	N
49	6837 Kitchener	02/17/2007	1710	3.43	419.5	320	7.2	N
49	6837 Kitchener	02/18/2007	0755	1.03	372.5	320	4.33	N
49	6837 Kitchener	02/18/2007	1255	1.67	381	340	4.19	N
49	6837 Kitchener	02/19/2007	0924	0.32	418.5	350	3.14	N
49	6837 Kitchener	02/19/2007	0925	2.08	376.5	320	5.93	N
49	6837 Kitchener	02/19/2007	1114	0.86	384.5	340	4.51	N
49	6837 Kitchener	02/19/2007	1205	1.01	391	320	4.93	N
49	6837 Kitchener	02/19/2007	1440	1.46	374.5	320	4.74	N
49	6837 Kitchener	02/19/2007	1605	0.71	376.5	310	4.6	N
49	6837 Kitchener	02/20/2007	0837	1.57	393.5	330	4.72	N
49	6837 Kitchener	02/20/2007	0920	1.46	388	330	3.6	N
49	6837 Kitchener	02/20/2007	1345	3.1	424.5	300	7.79	N
49	6837 Kitchener	02/20/2007	1524	4.28	422.5	300	11.14	N
49	6837 Kitchener	02/21/2007	0905	1.67	370.5	330	4.72	N
49	6837 Kitchener	02/21/2007	1122	2.23	404.5	330	4.79	N
49	6837 Kitchener	02/21/2007	1315	1.4	407	330	3.94	N
49	6837 Kitchener	02/21/2007	1518	2.12	415.5	330	5.66	N
49	6837 Kitchener	02/22/2007	0845	1.8	388	330	6.52	N
49	6837 Kitchener	02/22/2007	1035	2.72	384.5	330	7.24	N
49	6837 Kitchener	02/22/2007	1320	1.56	386	330	4.89	N
49	6837 Kitchener	02/22/2007	1440	1.86	418	330	4.69	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
49	6837 Kitchener	02/23/2007	0849	0.62	439	330	2.76	N
49	6837 Kitchener	02/23/2007	1254	0.77	406.5	330	3.34	N
49	6837 Kitchener	02/24/2007	0950	2.41	370	330	6.83	N
49	6837 Kitchener	02/24/2007	1440	1.62	370.5	330	4.87	N
49	6837 Kitchener	02/24/2007	1523	2.36	392.5	330	5.59	N
49	6837 Kitchener	02/25/2007	0855	1.38	371	330	5.88	N
49	6837 Kitchener	02/25/2007	1355	1.92	383	300	4.56	N
49	6837 Kitchener	02/26/2007	0839	0.55	422.5	330	3.24	N
49	6837 Kitchener	02/26/2007	1056	1.64	427.5	330	4.15	N
49	6837 Kitchener	02/26/2007	1415	1.14	393	330	2.85	N
49	6837 Kitchener	02/26/2007	1705	2.25	406.5	330	5.38	N
49	6837 Kitchener	02/27/2007	0849	2.02	395.5	330	6.61	N
49	6837 Kitchener	02/27/2007	1107	1.9	407.5	330	5.07	N
49	6837 Kitchener	02/27/2007	1645	1.99	388	330	5.7	N
49	6837 Kitchener	02/28/2007	0840	1.49	423	330	4.65	N
49	6837 Kitchener	02/28/2007	1315	1.74	404.5	330	5.1	N
49	6837 Kitchener	03/01/2007	0900	1.47	350.5	300	4.07	N
49	6837 Kitchener	03/01/2007	1500	1.74	399	330	4.45	N
49	6837 Kitchener	03/02/2007	0835	1.03	404	330	3.55	N
49	6837 Kitchener	03/02/2007	1334	1.52	385	330	3.91	N
49	6837 Kitchener	03/03/2007	1329	2.88	388	330	6.58	N
49	6837 Kitchener	03/04/2007	0830	1.52	405.5	360	3.74	N
49	6837 Kitchener	03/04/2007	1356	1.52	415.5	330	3.75	N
49	6837 Kitchener	03/05/2007	0815	1.45	370	300	3.99	N
49	6837 Kitchener	03/06/2007	0830	1.91	401.5	330	5.44	N
49	6837 Kitchener	03/06/2007	1310	1.55	370	330	4.83	N
49	6837 Kitchener	03/07/2007	0851	1.4	370.5	330	4.29	N
49	6837 Kitchener	03/08/2007	0840	1.17	423	330	4.89	N
49	6837 Kitchener	03/09/2007	0839	1.19	428	330	3.46	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
49	6837 Kitchener	03/10/2007	0835	1.19	395.5	330	3.97	N
49	6837 Kitchener	03/12/2007	0845	1.24	370.5	330	5.23	N
49	6837 Kitchener	03/13/2007	0940	1.24	383	330	3.81	N
49	6837 Kitchener	03/14/2007	0841	1	370	330	3.22	N
49	6837 Kitchener	03/15/2007	1515	1.3	395.5	330	4.6	N
49	6837 Kitchener	03/16/2007	0820	1.64	371	330	3.59	N
49	6837 Kitchener	03/17/2007	0736	1.4	406	330	5.01	N
49	6837 Kitchener	03/18/2007	0736	1.67	389.5	330	4.44	N
49	6837 Kitchener	03/19/2007	0840	1.3	427	330	3.75	N
49	6837 Kitchener	03/21/2007	0825	1.98	407.5	330	4.31	N
49	6837 Kitchener	03/22/2007	0839	1.16	370	330	3.49	N
49	6837 Kitchener	03/23/2007	0830	1.92	407.5	330	4.44	N
49	6837 Kitchener	03/24/2007	1235	1.3	389.5	330	3.85	N
49	6837 Kitchener	03/25/2007	0948	1.83	423	330	5.64	N
49	6837 Kitchener	03/26/2007	0846	1.83	408	360	4.9	N
49	6837 Kitchener	04/09/2007	0950	2.15	370	330	9.07	N
50	14570 Bandera Rd.	02/06/2007	1200	2.4	389.5	320	8.33	N
50	14570 Bandera Rd.	02/13/2007	0950	3.06	414.5	310	15.1	N
50	14570 Bandera Rd.	02/13/2007	1255	2.53	381.5	320	9.6	N
50	14570 Bandera Rd.	03/01/2007	1300	2.58	395.5	330	6.97	N
50	14570 Bandera Rd.	03/02/2007	1250	2.59	424	330	6.57	N
50	14570 Bandera Rd.	03/05/2007	1305	2.49	404.5	330	6.03	N
50	14570 Bandera Rd.	03/06/2007	1305	2.56	423.5	330	6.27	N
50	14570 Bandera Rd.	03/07/2007	1250	2.39	414.5	330	5.94	N
50	14570 Bandera Rd.	03/08/2007	1325	2.48	395.5	330	6.69	N
50	14570 Bandera Rd.	03/09/2007	1300	2.24	395.5	330	6.39	N
50	14570 Bandera Rd.	03/09/2007	1308	2.24	395.5	330	6.39	N
50	14570 Bandera Rd.	03/12/2007	1308	2.87	427	330	6.19	N
50	14570 Bandera Rd.	03/14/2007	1600	2.61	414.5	330	6.25	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
50	14570 Bandera Rd.	03/15/2007	0330	2.3	427.5	330	5.78	N
50	14570 Bandera Rd.	03/16/2007	1014	3.36	418	330	8.41	N
50	14570 Bandera Rd.	03/16/2007	1250	2.08	404.5	330	5.44	N
50	14570 Bandera Rd.	03/19/2007	1303	2.3	415.5	360	5.12	N
50	14570 Bandera Rd.	03/20/2007	1330	2.77	428	330	5.67	N
50	14570 Bandera Rd.	03/21/2007	1252	2.69	395.5	330	6.11	N
50	14570 Bandera Rd.	03/22/2007	1240	2.36	405.5	330	5.75	N
50	14570 Bandera Rd.	03/23/2007	1305	2.95	433.5	330	5.74	N
50	14570 Bandera Rd.	03/26/2007	1305	3.13	404.5	330	6.08	N
51	Turtle Creek	01/26/2007	1030	2.25	376.5	320	8.08	N
51	Turtle Creek	02/15/2007	1452	0.87	405.5	350	3.03	N
51	Turtle Creek	02/16/2007	0930	1.07	364	300	4.08	N
51	Turtle Creek	02/17/2007	0856	1.81	401	320	4.3	N
52	Trip blank	01/26/2007	0930	1.15	360	320	4.09	N
52	Trip blank	01/26/2007	0930	1.27	379.5	310	5.54	N
53	14570 Bandera	02/08/2007	1335	2.94	370	330	7.63	N
53	14570 Bandera	02/09/2007	1305	3.53	385	320	11.66	N
53	14570 Bandera	02/12/2007	1320	2.61	387.5	320	9.94	N
53	14570 Bandera	02/16/2007	1310	1.72	444	290	7.75	N
53	14570 Bandera	02/19/2007	1515	1.28	385	320	5.17	N
53	14570 Bandera	02/20/2007	1255	2.02	407	330	4.93	N
53	14570 Bandera	02/21/2007	1329	2.34	415	300	5.76	N
53	14570 Bandera	02/23/2007	1300	2.64	408	330	6.13	N
53	14570 Bandera	02/26/2007	1407	2.44	371.5	330	5.77	N
53	14570 Bandera	02/27/2007	1306	2.2	399.5	330	6.13	N
53	14570 Bandera	02/28/2007	1300	2.42	393	330	6.43	N
53	14570 Bandera	03/13/2007	1330	2.48	423	330	5.69	N
53	14570 Bandera	03/14/2007	1255	2.4	404.5	330	5.87	N
54	Grass Hill	02/12/2007	1120	2.4	372	310	11.07	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
54	Grass Hill	02/13/2007	1205	2.3	382	320	9.61	N
54	Grass Hill	02/14/2007	0900	2.45	367.5	320	8.34	N
54	Grass Hill	02/16/2007	0950	2.25	387	320	3.54	N
54	Grass Hill	02/19/2007	0900	1.63	384.5	340	5.35	N
54	Grass Hill	02/20/2007	0800	0.93	370	330	4.15	N
54	Grass Hill	02/21/2007	0825	2.02	407	330	5.05	N
54	Grass Hill	02/22/2007	0753	1.59	410.5	330	5.86	N
54	Grass Hill	02/22/2007	1315	2.24	370.5	330	7.04	N
54	Grass Hill	02/27/2007	0751	2.19	422.5	330	5.98	N
54	Grass Hill	02/28/2007	0721	1.7	407	330	4.51	N
54	Grass Hill	02/28/2007	0748	1.39	399	330	3.6	N
54	Grass Hill	03/02/2007	0750	1.79	370.5	330	5.06	N
54	Grass Hill	03/05/2007	0757	1.37	388	330	3.86	N
54	Grass Hill	03/06/2007	0745	1.62	370.5	330	5.77	N
54	Grass Hill	03/07/2007	0745	1.89	423.5	330	5.16	N
54	Grass Hill	03/08/2007	0744	1.67	415.5	330	4.99	N
54	Grass Hill	03/09/2007	0741	1.32	407	330	3.43	N
54	Grass Hill	03/10/2007	0910	1.58	423	330	4.29	N
54	Grass Hill	03/12/2007	0751	1.76	369.5	300	4.86	N
54	Grass Hill	03/14/2007	0738	1.34	408	360	4.03	N
54	Grass Hill	03/15/2007	0745	1.25	423	330	4.29	N
54	Grass Hill	03/16/2007	0735	1.53	390.5	300	4.28	N
54	Grass Hill	03/19/2007	0751	1.4	407.5	360	4.45	N
54	Grass Hill	03/20/2007	0729	2.11	387.5	330	4.97	N
54	Grass Hill	03/21/2007	0745	1.9	418	330	4.83	N
54	Grass Hill	03/22/2007	0749	1.4	412	360	3.93	N
54	Grass Hill	03/26/2007	0758	2.34	415.5	330	5.43	N
55	Huebner at Evers	02/12/2007	1053	1.78	387.5	320	7.75	N
55	Huebner at Evers	02/14/2007	0845	1.68	389.5	330	4.94	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
55	Huebner at Evers	02/16/2007	0820	1.54	384.5	340	5.42	N
55	Huebner at Evers	02/19/2007	0845	1.06	379	310	5.58	N
55	Huebner at Evers	02/20/2007	0745	1.48	406	330	4.1	N
55	Huebner at Evers	02/21/2007	0745	2.06	418	330	5.47	N
55	Huebner at Evers	02/22/2007	0721	1.61	405.5	330	4.45	N
55	Huebner at Evers	02/23/2007	0730	1.07	422.5	330	4.16	N
55	Huebner at Evers	02/26/2007	0715	1.21	408	360	4.88	N
55	Huebner at Evers	02/26/2007	0744	0.89	370.5	330	3.01	N
55	Huebner at Evers	02/27/2007	0723	1.49	385	330	4.43	N
55	Huebner at Evers	03/01/2007	0751	1.76	388	330	4.73	N
55	Huebner at Evers	03/01/2007	1300	2.23	388	330	6.31	N
55	Huebner at Evers	03/05/2007	0732	1.41	404.5	330	4.19	N
55	Huebner at Evers	03/06/2007	0720	1.71	410.5	360	4.46	N
55	Huebner at Evers	03/07/2007	0720	1.86	407	330	5.45	N
55	Huebner at Evers	03/08/2007	0715	1.6	406.5	330	4.51	N
55	Huebner at Evers	03/09/2007	0715	1.55	422.5	330	4.05	N
55	Huebner at Evers	03/12/2007	0718	1.5	423.5	330	4.21	N
55	Huebner at Evers	03/13/2007	0725	1.79	395.5	330	4.54	N
55	Huebner at Evers	03/14/2007	0715	1.65	406.5	330	4.48	N
55	Huebner at Evers	03/15/2007	0715	1.35	405.5	360	4.05	N
55	Huebner at Evers	03/16/2007	0715	1.43	418	330	3.96	N
55	Huebner at Evers	03/19/2007	0725	1.23	463	330	3.77	N
55	Huebner at Evers	03/20/2007	0715	2	388	330	4.69	N
55	Huebner at Evers	03/21/2007	0716	2.03	412.5	360	5.01	N
55	Huebner at Evers	03/22/2007	0718	1.59	424	330	4.8	N
55	Huebner at Evers	03/26/2007	0720	2.24	423.5	330	4.41	N
57	SAWS	02/12/2007	0315	1.01	387	320	3.99	N
57	SAWS	02/12/2007	0350	1.87	376	320	6.72	N
57	SAWS	02/26/2007	1200	0.65	418	330	2.68	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
58	11585 Galm Rd.	02/12/2007	1600	3.19	383	320	9.66	N
58	11585 Galm Rd.	02/15/2007	1030	3.01	434.5	340	6.85	N
58	11585 Galm Rd.	03/05/2007	1325	3.28	433	330	6.5	N
58	11585 Galm Rd.	03/12/2007	1030	3.25	407	330	7.24	N
58	11585 Galm Rd.	03/14/2007	1240	3.16	406	330	8.12	N
58	11585 Galm Rd.	03/15/2007	1150	3.22	404.5	330	7.93	N
58	11585 Galm Rd.	03/19/2007	1120	4.58	418	330	9.58	N
59	8759 FM 1560N	02/12/2007	1515	1.75	387.5	320	6.95	N
59	8759 FM 1560N	02/26/2007	1205	1.07	410.5	330	3.84	N
59	8759 FM 1560N	03/05/2007	1445	2.23	408	330	5.63	N
59	8759 FM 1560N	03/12/2007	1140	1.88	396	330	4.79	N
59	8759 FM 1560N	03/14/2007	1100	1.57	408	360	4.97	N
59	8759 FM 1560N	03/15/2007	1245	1.3	410.5	330	3.74	N
59	8759 FM 1560N	03/19/2007	0955	1.31	434	330	3.65	N
63	12354 FM 1560N	02/14/2007	1803	3.56	421.5	320	9.81	N
63	12354 FM 1560N	02/21/2007	1445	93.01	430.5	330	200.3	Y
64	12500 Woller	02/14/2007	1705	1.78	382.5	320	6.54	N
65	11223 Bandera	02/12/2007	1625	1.98	365	320	9.9	N
65	11223 Bandera	02/26/2007	1109	1.26	370	330	4.23	N
65	11223 Bandera	03/05/2007	1107	1.83	422.5	330	4.27	N
65	11223 Bandera	03/12/2007	1021	1.71	389.5	330	4.6	N
65	11223 Bandera	03/14/2007	1011	1.4	422.5	330	3.55	N
65	11223 Bandera	03/15/2007	1030	1.97	422	330	4.67	N
65	11223 Bandera	03/16/2007	1030	1.45	405	360	3.99	N
65	11223 Bandera	03/19/2007	1019	1.6	398.5	300	5.65	N
66	11049 Bandera	02/12/2007	1600	1.51	419.5	320	5.34	N
66	11049 Bandera	03/05/2007	1136	1.84	423	330	4.46	N
66	11049 Bandera	03/12/2007	1040	1.56	423	330	4.74	N
66	11049 Bandera	03/14/2007	1024	1.47	371	330	5.09	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
66	11049 Bandera	03/15/2007	1047	1.54	371.5	330	4.14	N
66	11049 Bandera	03/16/2007	1048	1.55	370	330	4.41	N
66	11049 Bandera	03/19/2007	1049	1.6	433	330	4.66	N
67	9085 Bandera	02/12/2007	1502	1.14	383	320	6.37	N
67	9085 Bandera	02/26/2007	1208	1.02	408	360	3.8	N
67	9085 Bandera	03/05/2007	1210	1.94	370.5	330	4.54	N
67	9085 Bandera	03/12/2007	1104	1.47	423	330	4.1	N
67	9085 Bandera	03/14/2007	1041	1.84	385	330	4.72	N
67	9085 Bandera	03/15/2007	1110	1.55	388	330	4.21	N
67	9085 Bandera	03/16/2007	1104	1.21	399	330	3.54	N
67	9085 Bandera	03/19/2007	1107	1.45	433.5	330	3.85	N
68	9700 Rochelle	02/12/2007	0358	1.63	366	310	7.65	N
68	9700 Rochelle	02/26/2007	1330	0.7	371.5	330	3.92	N
68	9700 Rochelle	03/12/2007	1310	1.28	422.5	330	4.	N
68	9700 Rochelle	03/14/2007	1040	0.91	406.5	330	3.06	N
68	9700 Rochelle	03/15/2007	1420	1.4	422.5	330	4.41	N
68	9700 Rochelle	03/19/2007	1400	1.1	423	330	3.72	N
69	8360 Eckhert Rd.	02/12/2007	0425	0.65	362.5	310	3.81	N
69	8360 Eckhert Rd.	02/26/2007	1045	0.62	361	300	3.88	N
69	8360 Eckhert Rd.	03/12/2007	1132	1.19	370.5	330	4.83	N
69	8360 Eckhert Rd.	03/14/2007	1113	0.97	412.5	360	2.73	N
69	8360 Eckhert Rd.	03/15/2007	1143	1.2	371	330	3.86	N
69	8360 Eckhert Rd.	03/16/2007	1125	0.74	371.5	330	2.62	N
69	8360 Eckhert Rd.	03/19/2007	1131	1.06	397.5	300	3.44	N
70	7507 Eckhert Rd.	02/12/2007	0449	1.48	394	310	6.6	N
70	7507 Eckhert Rd.	02/26/2007	1238	1.11	408	360	3.76	N
70	7507 Eckhert Rd.	03/12/2007	1115	1.59	388	330	4.59	N
70	7507 Eckhert Rd.	03/14/2007	1055	1.49	404.5	330	4.	N
70	7507 Eckhert Rd.	03/15/2007	1123	1.72	370.5	330	5.45	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
70	7507 Eckhert Rd.	03/16/2007	1143	1.29	406.5	330	3.48	N
70	7507 Eckhert Rd.	10/01/2012	2201		0	0	.	N
70	7507 Eckhert Rd.	10/02/2012	2202		0	0	.	N
70	7507 Eckhert Rd.	10/03/2012	2203		0	0	.	N
70	7507 Eckhert Rd.	10/04/2012	2204		0	0	.	N
70	7507 Eckhert Rd.	10/05/2012	2205		0	0	.	N
70	7507 Eckhert Rd.	10/06/2012	2206		0	0	.	N
71	9750 Huebner Rd.	02/12/2007	0310	1.01	379.5	310	4.62	N
71	9750 Huebner Rd.	02/26/2007	1050	1.91	388	330	5.17	N
71	9750 Huebner Rd.	03/12/2007	1329	1.28	396	330	3.93	N
71	9750 Huebner Rd.	03/13/2007	1105	1.19	370	330	3.73	N
71	9750 Huebner Rd.	03/14/2007	1020	1.32	388	330	4.23	N
71	9750 Huebner Rd.	03/15/2007	1415	1.02	408	360	3.09	N
71	9750 Huebner Rd.	03/19/2007	1340	1.47	370	330	4.19	N
74	12951 Bandera Rd.	02/28/2007	1443	2.32	404.5	330	5.72	N
80	15197 Marin Hollow	02/17/2007	1305	1.69	411.5	330	10.87	N
80	15197 Marin Hollow	02/17/2007	1700	3.98	419.5	340	10.5	N
80	15197 Marin Hollow	02/18/2007	1041	3.16	413	340	10.24	N
80	15197 Marin Hollow	02/18/2007	1605	3.53	396	330	9.74	N
80	15197 Marin Hollow	02/19/2007	0800	1.5	393	350	5.03	N
80	15197 Marin Hollow	02/19/2007	0915	3.91	394.5	320	12.27	N
80	15197 Marin Hollow	02/19/2007	1320	3.76	402	330	11.33	N
80	15197 Marin Hollow	02/20/2007	0745	4.35	423	330	10.1	N
80	15197 Marin Hollow	02/20/2007	1215	4.21	406	330	10.36	N
80	15197 Marin Hollow	02/21/2007	0825	4.94	406	330	10.6	N
80	15197 Marin Hollow	02/21/2007	1200	3.13	422.5	330	7.45	N
80	15197 Marin Hollow	02/22/2007	0750	3.57	395.5	330	9.15	N
80	15197 Marin Hollow	02/22/2007	1200	5.01	401	330	11.35	N
80	15197 Marin Hollow	02/23/2007	0748	4.09	418	330	9.73	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
80	15197 Marin Hollow	02/23/2007	1628	3.82	418	330	9.29	N
80	15197 Marin Hollow	02/24/2007	1120	4.4	418	330	10.34	N
80	15197 Marin Hollow	02/24/2007	1425	5.23	396	330	11.53	N
80	15197 Marin Hollow	02/25/2007	1055	5.52	399	330	11.86	N
80	15197 Marin Hollow	02/25/2007	1500	4.98	385	330	10.5	N
80	15197 Marin Hollow	02/26/2007	0855	4.43	406.5	330	11.05	N
80	15197 Marin Hollow	02/26/2007	1338	4.22	411	330	10.03	N
80	15197 Marin Hollow	02/27/2007	0855	4.22	414.5	330	9.74	N
80	15197 Marin Hollow	02/27/2007	1329	4.45	408.5	330	10.54	N
80	15197 Marin Hollow	02/28/2007	1336	4.86	389.5	330	11.38	N
80	15197 Marin Hollow	02/28/2007	1336	2.83	404.5	330	10.61	N
80	15197 Marin Hollow	03/01/2007	0945	4.79	407.5	330	11.03	N
80	15197 Marin Hollow	03/01/2007	1339	9.58	428	330	24.49	Y
80	15197 Marin Hollow	03/02/2007	1105	4.77	396	330	11.23	N
80	15197 Marin Hollow	03/02/2007	1410	4.84	389.5	330	11.14	N
80	15197 Marin Hollow	03/03/2007	1010	5.31	424	330	11.27	N
80	15197 Marin Hollow	03/04/2007	0900	4.77	395.5	330	11.	N
80	15197 Marin Hollow	03/04/2007	1745	4.95	399	330	10.92	N
80	15197 Marin Hollow	03/05/2007	1234	4.37	407	330	10.51	N
80	15197 Marin Hollow	03/05/2007	1644	4.49	389.5	330	11.43	N
80	15197 Marin Hollow	03/06/2007	0815	4.24	395.5	330	9.59	N
80	15197 Marin Hollow	03/06/2007	1335	4.55	399	330	11.3	N
80	15197 Marin Hollow	03/07/2007	0805	4.56	392	330	10.46	N
80	15197 Marin Hollow	03/07/2007	1456	4.66	408	330	10.17	N
80	15197 Marin Hollow	03/08/2007	0835	4.25	404	330	9.7	N
80	15197 Marin Hollow	03/08/2007	1344	5.18	393.5	330	12.24	N
80	15197 Marin Hollow	03/08/2007	1344	6.05	431.5	340	60.7	Y
80	15197 Marin Hollow	03/09/2007	0900	3.69	411	340	10.41	N
80	15197 Marin Hollow	03/09/2007	0900	3.86	429	330	7.69	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
80	15197 Marin Hollow	03/09/2007	1441	4.24	388	330	9.28	N
80	15197 Marin Hollow	03/10/2007	1210	3.32	403	340	10.37	N
80	15197 Marin Hollow	03/10/2007	1210	4.1	404.5	330	9.13	N
80	15197 Marin Hollow	03/10/2007	1418	4.3	399	330	10.55	N
80	15197 Marin Hollow	03/11/2007	1150	4.26	407	330	9.67	N
80	15197 Marin Hollow	03/11/2007	1435	4.57	424.5	330	10.18	N
80	15197 Marin Hollow	03/12/2007	0845	4.32	406.5	330	10.67	N
80	15197 Marin Hollow	03/12/2007	1345	4.08	407.5	330	9.6	N
80	15197 Marin Hollow	03/13/2007	0825	4.72	423	330	10.78	N
80	15197 Marin Hollow	03/13/2007	1307	4.39	415.5	330	10.34	N
80	15197 Marin Hollow	03/14/2007	0920	4.38	380.5	330	9.86	N
80	15197 Marin Hollow	03/14/2007	1325	4.51	399	330	10.38	N
80	15197 Marin Hollow	03/15/2007	0817	4.43	418	330	10.19	N
80	15197 Marin Hollow	03/15/2007	1832	1.51	428	330	4.37	N
80	15197 Marin Hollow	03/16/2007	0810	4.46	423.5	330	10.39	N
80	15197 Marin Hollow	03/16/2007	1220	4.55	405	330	10.38	N
80	15197 Marin Hollow	03/17/2007	1025	4.14	407	330	9.98	N
80	15197 Marin Hollow	03/17/2007	1455	4.65	388	330	10.35	N
80	15197 Marin Hollow	03/18/2007	1020	4.29	404.5	330	9.27	N
80	15197 Marin Hollow	03/18/2007	1510	4.01	422.5	330	9.27	N
80	15197 Marin Hollow	03/19/2007	0840	4.72	394	330	10.24	N
80	15197 Marin Hollow	03/19/2007	1330	4.6	395.5	330	10.23	N
80	15197 Marin Hollow	03/20/2007	0720	3.83	420	340	10.79	N
80	15197 Marin Hollow	03/20/2007	0720	5.25	430.5	330	10.58	N
80	15197 Marin Hollow	03/20/2007	1435	5.09	415	330	10.89	N
80	15197 Marin Hollow	03/21/2007	0815	4.97	416	330	10.65	N
80	15197 Marin Hollow	03/21/2007	1230	4.76	423.5	330	10.52	N
80	15197 Marin Hollow	03/21/2007	1230	3.5	423.5	330	9.54	N
80	15197 Marin Hollow	03/22/2007	0810	3.83	399.5	330	10.09	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
80	15197 Marin Hollow	03/22/2007	0810	4.12	407.5	330	8.78	N
80	15197 Marin Hollow	03/22/2007	1215	3.88	399	330	8.06	N
80	15197 Marin Hollow	03/23/2007	0830	3.64	424	330	8.84	N
80	15197 Marin Hollow	03/23/2007	1332	5.11	418	330	10.45	N
80	15197 Marin Hollow	03/24/2007	1045	4.47	410.5	330	10.2	N
80	15197 Marin Hollow	03/24/2007	1444	4.85	408.5	330	10.79	N
80	15197 Marin Hollow	03/25/2007	1128	4.67	405.5	330	11.01	N
80	15197 Marin Hollow	03/25/2007	1545	4.79	406	330	10.81	N
80	15197 Marin Hollow	03/26/2007	0815	4.39	396.5	330	9.75	N
80	15197 Marin Hollow	03/26/2007	1330	4.95	436	330	9.95	N
80	15197 Marin Hollow	03/27/2007	1315	4.68	399.5	330	10.26	N
80	15197 Marin Hollow	03/28/2007	1335	4.14	424	330	9.19	N
80	15197 Marin Hollow	03/29/2007	1239	6.53	415.5	330	15.07	N
80	15197 Marin Hollow	03/29/2007	1239	7.45	429	330	15.31	N
80	15197 Marin Hollow	03/29/2007	1345	5.56	403	330	11.87	N
80	15197 Marin Hollow	03/29/2007	1345	4.37	415	330	11.38	N
80	15197 Marin Hollow	03/30/2007	1335	4.66	415	330	9.87	N
80	15197 Marin Hollow	03/31/2007	1509	4.83	411.5	330	10.37	N
80	15197 Marin Hollow	04/01/2007	1423	4.28	406	330	8.91	N
80	15197 Marin Hollow	04/02/2007	1244	4.48	406.5	330	9.62	N
80	15197 Marin Hollow	04/03/2007	1134	4.55	393.5	330	10.27	N
80	15197 Marin Hollow	04/04/2007	1315	4.4	404.5	330	10.34	N
80	15197 Marin Hollow	04/05/2007	1254	4.94	407	330	10.66	N
80	15197 Marin Hollow	04/06/2007	1030	4.21	424	330	7.83	N
80	15197 Marin Hollow	04/09/2007	1520	4.71	372	330	12.35	N
81	St. George	02/19/2007	1200	1.02	375	320	4.26	N
82	12634 FM 1560N	02/19/2007	1035	1.08	394	310	5.03	N
82	12634 FM 1560N	02/19/2007	1355	1.44	405	320	5.77	N
82	12634 FM 1560N	02/20/2007	1050	1.54	395.5	330	4.36	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
82	12634 FM 1560N	02/20/2007	1510	1.45	389	330	4.3	N
82	12634 FM 1560N	02/21/2007	0945	3.76	398	300	8.15	N
82	12634 FM 1560N	02/21/2007	1455	2.03	413	300	4.97	N
82	12634 FM 1560N	02/22/2007	1622	2.02	388	330	4.7	N
82	12634 FM 1560N	02/23/2007	1058	1.03	408	360	3.82	N
82	12634 FM 1560N	02/23/2007	1646	0.8	424	330	2.94	N
82	12634 FM 1560N	02/24/2007	1157	1.56	407.5	330	4.28	N
82	12634 FM 1560N	02/24/2007	1529	1.39	429.5	330	3.69	N
82	12634 FM 1560N	02/25/2007	0945	1.48	399	330	4.05	N
82	12634 FM 1560N	02/26/2007	1236	1.54	405.5	360	5.53	N
82	12634 FM 1560N	02/26/2007	1531	0.96	412.5	360	3.38	N
82	12634 FM 1560N	02/27/2007	1108	1.04	370	330	4.49	N
82	12634 FM 1560N	02/27/2007	1532	1.69	399	330	5.32	N
82	12634 FM 1560N	02/28/2007	1049	1.62	370	330	5.01	N
82	12634 FM 1560N	02/28/2007	1551	2.03	404.5	330	5.63	N
82	12634 FM 1560N	03/01/2007	1126	1.88	406.5	330	5.14	N
82	12634 FM 1560N	03/01/2007	1501	2.15	395.5	330	7.14	N
82	12634 FM 1560N	03/02/2007	1145	1.79	370.5	330	5.37	N
82	12634 FM 1560N	03/07/2007	1136	1.62	388	330	4.7	N
83	11011 Shaenfield Rd.	02/20/2007	1015	1.67	393.5	330	5.92	N
83	11011 Shaenfield Rd.	02/20/2007	1041	2.58	395.5	300	6.44	N
83	11011 Shaenfield Rd.	02/26/2007	1648	1.96	404.5	330	5.85	N
84	10940 Mesquite Flat	02/23/2007	1340	0.94	429.5	330	3.64	N
84	10940 Mesquite Flat	02/23/2007	1350	0.99	418	330	3.32	N
85	FM 1560N	02/21/2007	1051	2.94	404.5	330	7.13	N
85	FM 1560N	02/21/2007	1345	2.43	434	330	5.75	N
85	FM 1560N	02/22/2007	1010	2.49	388	330	5.43	N
85	FM 1560N	02/22/2007	1420	2.36	418	330	5.8	N
85	FM 1560N	02/23/2007	1534	1.75	429	330	4.62	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
85	FM 1560N	02/24/2007	1534	3.29	419	330	7.17	N
85	FM 1560N	02/26/2007	1720	2.75	423.5	330	6.36	N
85	FM 1560N	02/27/2007	1341	2.65	415.5	330	5.47	N
85	FM 1560N	02/27/2007	1705	2.35	434	330	5.51	N
85	FM 1560N	02/28/2007	1554	2.15	404.5	330	5.81	N
85	FM 1560N	03/01/2007	1130	2.38	394	330	6.41	N
85	FM 1560N	03/02/2007	1045	2.54	388	330	6.41	N
85	FM 1560N	03/02/2007	1600	2.63	406	330	6.91	N
85	FM 1560N	03/03/2007	0950	3.18	418	330	7.62	N
85	FM 1560N	03/03/2007	1515	3.12	393.5	330	6.68	N
88	11980 Galm Rd.	02/13/2007	1100	2.92	408	320	8.38	N
88	11980 Galm Rd.	02/15/2007	1055	2.25	404	330	5.62	N
88	11980 Galm Rd.	02/24/2007	1136	3.05	392	330	6.83	N
88	11980 Galm Rd.	02/24/2007	1555	2.73	387.5	330	6.52	N
88	11980 Galm Rd.	02/25/2007	0923	3.56	422.5	330	7.32	N
88	11980 Galm Rd.	02/25/2007	1332	2.99	394	330	5.84	N
88	11980 Galm Rd.	02/28/2007	1129	2.42	423	330	6.27	N
88	11980 Galm Rd.	03/04/2007	1119	2.24	428	330	6.21	N
88	11980 Galm Rd.	03/04/2007	1604	2.57	422.5	330	6.41	N
88	11980 Galm Rd.	03/05/2007	1425	2.32	418	330	4.99	N
88	11980 Galm Rd.	03/12/2007	1020	1.87	407.5	360	4.18	N
88	11980 Galm Rd.	03/14/2007	1220	2.31	423	330	5.76	N
88	11980 Galm Rd.	03/15/2007	1135	2.07	406	330	5.29	N
88	11980 Galm Rd.	03/19/2007	1145	2.02	370.5	330	5.04	N
89	11221 FM 1560N	02/26/2007	1150	2.14	434	330	5.43	N
91	11515 FM 1560N	02/26/2007	1135	3.2	399.5	330	6.88	N
91	11515 FM 1560N	02/28/2007	1900	3.04	400.5	290	9.99	N
91	11515 FM 1560N	02/28/2007	1900	3.98	415	330	8.66	N
91	11515 FM 1560N	03/05/2007	1300	6.3	406.5	330	13.18	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
91	11515 FM 1560N	03/07/2007	1010	9.63	415.5	330	25.29	Y
91	11515 FM 1560N	03/07/2007	1010	11.64	424	330	25.08	Y
91	11515 FM 1560N	03/07/2007	1622	11.18	408	320	26.9	Y
91	11515 FM 1560N	03/07/2007	1622	12.56	430.5	330	26.31	Y
91	11515 FM 1560N	03/08/2007	1105	9.3	422.5	320	21.6	Y
91	11515 FM 1560N	03/08/2007	1105	10.29	433.5	330	21.	Y
91	11515 FM 1560N	03/08/2007	1655	10.64	407.5	330	21.43	Y
91	11515 FM 1560N	03/08/2007	1655	9.86	420.5	320	22.1	Y
91	11515 FM 1560N	03/09/2007	1055	5.82	404.5	330	15.25	Y
91	11515 FM 1560N	03/09/2007	1055	6.64	422	330	14.89	N
91	11515 FM 1560N	03/09/2007	1613	6.23	410	320	15.61	Y
91	11515 FM 1560N	03/09/2007	1613	7.05	417.5	330	15.97	Y
91	11515 FM 1560N	03/10/2007	0950	7.9	424	330	16.3	Y
91	11515 FM 1560N	03/10/2007	0950	7.03	429.5	320	15.9	Y
91	11515 FM 1560N	03/10/2007	1538	6.96	399.5	330	16.05	Y
91	11515 FM 1560N	03/10/2007	1538	8.03	427.5	330	16.36	Y
91	11515 FM 1560N	03/11/2007	1035	6.49	421	320	14.99	Y
91	11515 FM 1560N	03/11/2007	1035	7.02	423.5	330	14.45	N
91	11515 FM 1560N	03/11/2007	1340	6.06	383	330	12.7	N
91	11515 FM 1560N	03/11/2007	1340	5.27	401	320	12.84	N
91	11515 FM 1560N	03/12/2007	1030	5.72	407.5	330	13.8	N
91	11515 FM 1560N	03/12/2007	1030	6.38	419.5	330	14.24	N
91	11515 FM 1560N	03/12/2007	1112	5.81	426.5	330	11.63	N
91	11515 FM 1560N	03/12/2007	1607	5.84	404.5	330	12.61	N
91	11515 FM 1560N	03/12/2007	1607	5.4	412	330	12.15	N
91	11515 FM 1560N	03/13/2007	1115	5.08	418	330	10.8	N
91	11515 FM 1560N	03/13/2007	1440	5.09	399.5	330	11.95	N
91	11515 FM 1560N	03/14/2007	1125	5.97	423	330	12.22	N
91	11515 FM 1560N	03/14/2007	1340	5.29	429	330	10.56	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
91	11515 FM 1560N	03/14/2007	1437	6.16	392.5	330	12.64	N
91	11515 FM 1560N	03/15/2007	1013	5.24	454	330	10.54	N
91	11515 FM 1560N	03/15/2007	1230	5.23	406.5	330	11.11	N
91	11515 FM 1560N	03/15/2007	1545	5.22	415.5	330	10.56	N
91	11515 FM 1560N	03/16/2007	1015	5.39	422.5	330	11.45	N
91	11515 FM 1560N	03/16/2007	1405	5.34	405	330	10.64	N
91	11515 FM 1560N	03/17/2007	1059	5.38	433	330	10.72	N
91	11515 FM 1560N	03/17/2007	1533	5.6	417.5	330	11.39	N
91	11515 FM 1560N	03/18/2007	0940	5.24	407	330	11.55	N
91	11515 FM 1560N	03/18/2007	1441	4.75	406	330	11.56	N
91	11515 FM 1560N	03/19/2007	1025	4.47	417.5	330	10.49	N
91	11515 FM 1560N	03/19/2007	1055	4.58	418	330	10.15	N
91	11515 FM 1560N	03/19/2007	1420	4.74	430	330	10.99	N
91	11515 FM 1560N	03/20/2007	0950	5.25	415	330	11.7	N
91	11515 FM 1560N	04/09/2007	1525	4.74	372	330	12.67	N
93	7454 FM 1560N	02/26/2007	1230	1.19	364.5	300	4.21	N
93	7454 FM 1560N	03/05/2007	1045	2.06	445.5	330	4.94	N
93	7454 FM 1560N	03/12/2007	1150	1.71	389.5	330	4.72	N
93	7454 FM 1560N	03/14/2007	1400	1.54	399	330	4.65	N
93	7454 FM 1560N	03/15/2007	1300	1.76	424	330	4.69	N
93	7454 FM 1560N	03/19/2007	0930	1.65	392.5	330	4.17	N
94	6150 Roft Rd.	02/12/2007	0310	1.3	378.5	310	5.21	N
94	6150 Roft Rd.	02/26/2007	1150	1.66	348	300	6.51	N
94	6150 Roft Rd.	03/05/2007	1135	1.64	389.5	330	3.87	N
94	6150 Roft Rd.	03/12/2007	0950	0.9	370	330	3.5	N
94	6150 Roft Rd.	03/13/2007	1130	1.31	357	300	3.79	N
94	6150 Roft Rd.	03/14/2007	1140	1.14	371	330	4.03	N
94	6150 Roft Rd.	03/15/2007	1045	1.14	441	300	4.15	N
94	6150 Roft Rd.	03/19/2007	0850	1.48	406.5	330	4.21	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
95	8857 Culebra Rd.	02/12/2007	1600	2.26	376	320	7.05	N
95	8857 Culebra Rd.	02/26/2007	1220	3.8	340.5	300	17.21	N
95	8857 Culebra Rd.	03/05/2007	1210	2.73	389.5	330	6.18	N
95	8857 Culebra Rd.	03/12/2007	1230	2.22	399	330	5.44	N
95	8857 Culebra Rd.	03/14/2007	1132	2.65	406	330	5.94	N
95	8857 Culebra Rd.	03/15/2007	1200	2.83	422.5	330	6.79	N
95	8857 Culebra Rd.	03/16/2007	1207	2.25	423	330	7.19	N
96	7885 Grissom Rd.	02/12/2007	0700	1.21	372	320	5.86	N
96	7885 Grissom Rd.	02/26/2007	1100	0.67	389.5	330	3.08	N
96	7885 Grissom Rd.	03/05/2007	1500	1.96	370.5	330	5.02	N
96	7885 Grissom Rd.	03/12/2007	1205	1.12	422.5	330	3.53	N
96	7885 Grissom Rd.	03/13/2007	1000	1.08	415	330	4.11	N
96	7885 Grissom Rd.	03/14/2007	1120	1.08	393.5	330	3.75	N
96	7885 Grissom Rd.	03/15/2007	1325	1.24	422.5	330	3.79	N
96	7885 Grissom Rd.	03/19/2007	1225	1.45	370.5	330	4.49	N
98	11050 Mesquite Flat	02/28/2007	1514	3.24	389.5	330	7.4	N
98	11050 Mesquite Flat	02/28/2007	1514	2.2	393	320	6.47	N
98	11050 Mesquite Flat	02/28/2007	1514	9.82	411	300	32.52	Y
98	11050 Mesquite Flat	02/28/2007	2015	2.48	385	330	5.63	N
98	11050 Mesquite Flat	02/28/2007	2030	2.84	417.5	330	6.39	N
98	11050 Mesquite Flat	03/01/2007	1634	2.55	399.5	330	6.18	N
100	11021 FM 1560N	03/05/2007	1101	2.08	418	330	5.74	N
100	11021 FM 1560N	03/05/2007	1640	1.86	415	330	4.95	N
100	11021 FM 1560N	03/06/2007	1110	2.54	385.5	330	6.22	N
100	11021 FM 1560N	03/06/2007	1530	2.33	439.5	330	5.6	N
100	11021 FM 1560N	03/07/2007	1144	2.66	408	360	6.43	N
100	11021 FM 1560N	03/07/2007	1500	2.22	423	330	5.27	N
100	11021 FM 1560N	03/08/2007	1130	2.17	407.5	330	5.39	N
100	11021 FM 1560N	03/08/2007	1400	2.47	371.5	330	6.02	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
100	11021 FM 1560N	03/09/2007	1208	2.24	415.5	330	5.46	N
100	11021 FM 1560N	03/09/2007	1452	2.34	408	360	6.19	N
100	11021 FM 1560N	03/10/2007	1100	2.21	433	330	5.63	N
100	11021 FM 1560N	03/10/2007	1515	2.49	427.5	330	5.7	N
100	11021 FM 1560N	03/11/2007	1120	2.4	422.5	330	5.67	N
100	11021 FM 1560N	03/11/2007	1140	2.29	371	330	6.88	N
100	11021 FM 1560N	03/12/2007	1135	2.06	423.5	330	5.58	N
100	11021 FM 1560N	03/12/2007	1510	2.83	362	300	6.08	N
100	11021 FM 1560N	03/13/2007	1110	4.09	399	330	8.32	N
100	11021 FM 1560N	03/13/2007	1420	11.8	422.5	330	24.05	Y
100	11021 FM 1560N	03/14/2007	1135	9.1	423	330	20.97	Y
100	11021 FM 1560N	03/14/2007	1135	9.81	432.5	330	18.09	Y
100	11021 FM 1560N	03/14/2007	1355	10.85	428	330	20.5	Y
100	11021 FM 1560N	03/15/2007	1105	8.22	408	310	44.92	Y
100	11021 FM 1560N	03/15/2007	1105	8.69	433.5	330	17.	Y
100	11021 FM 1560N	03/15/2007	1415	10.9	422.5	330	20.22	Y
100	11021 FM 1560N	03/16/2007	1120	7.51	417	350	16.63	Y
100	11021 FM 1560N	03/16/2007	1120	9.02	427.5	330	18.49	Y
100	11021 FM 1560N	03/16/2007	1310	10.42	428	330	20.51	Y
100	11021 FM 1560N	03/17/2007	1023	7.29	428	330	16.45	Y
100	11021 FM 1560N	03/17/2007	1025	8.46	427.5	330	16.33	Y
100	11021 FM 1560N	03/17/2007	1448	9.02	427	330	17.1	Y
100	11021 FM 1560N	03/18/2007	1005	7.19	410.5	320	16.52	Y
100	11021 FM 1560N	03/18/2007	1005	8.14	430.5	330	15.84	Y
100	11021 FM 1560N	03/18/2007	1406	8.14	429	330	15.55	Y
100	11021 FM 1560N	03/19/2007	1130	7.48	430.5	330	13.63	N
100	11021 FM 1560N	03/19/2007	1135	6.78	437.5	350	14.79	N
100	11021 FM 1560N	03/19/2007	1529	6.66	422.5	330	14.17	N
100	11021 FM 1560N	03/20/2007	1059	4.77	443.5	330	9.69	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
100	11021 FM 1560N	03/20/2007	1448	4.3	407	330	10.58	N
100	11021 FM 1560N	03/20/2007	1448	5.24	433	330	11.	N
100	11021 FM 1560N	03/21/2007	1101	5.73	423	330	12.59	N
100	11021 FM 1560N	03/21/2007	1457	6.53	418	330	13.11	N
100	11021 FM 1560N	03/22/2007	1112	4.99	423	330	10.55	N
100	11021 FM 1560N	03/22/2007	1430	5.4	433.5	330	11.88	N
100	11021 FM 1560N	03/23/2007	1116	5.91	417.5	330	11.79	N
100	11021 FM 1560N	03/23/2007	1116	4.53	422	350	11.01	N
100	11021 FM 1560N	03/23/2007	1446	6.12	423	330	11.38	N
100	11021 FM 1560N	03/24/2007	1115	4.97	415.5	330	10.97	N
100	11021 FM 1560N	03/24/2007	1423	3.82	425.5	330	8.29	N
100	11021 FM 1560N	03/25/2007	1130	5.44	424.5	330	10.84	N
100	11021 FM 1560N	03/25/2007	1425	4.71	422.5	330	10.06	N
100	11021 FM 1560N	03/26/2007	1125	5.28	414	330	10.68	N
100	11021 FM 1560N	03/26/2007	1450	4.95	433	360	9.7	N
100	11021 FM 1560N	03/27/2007	0912	4.35	440.5	330	9.32	N
100	11021 FM 1560N	03/28/2007	0948	3.92	422.5	330	8.37	N
100	11021 FM 1560N	03/29/2007	0950	5.15	427.5	330	9.7	N
100	11021 FM 1560N	03/30/2007	1259	5.55	429	330	11.27	N
100	11021 FM 1560N	03/31/2007	1335	4.41	422	330	9.7	N
100	11021 FM 1560N	04/01/2007	1507	4.55	411	330	9.33	N
100	11021 FM 1560N	04/02/2007	0920	5.29	410.5	330	11.3	N
100	11021 FM 1560N	04/03/2007	1031	4.4	428	330	8.63	N
100	11021 FM 1560N	04/04/2007	0918	4.8	433.5	330	9.79	N
100	11021 FM 1560N	04/05/2007	0944	4.88	453	330	9.2	N
100	11021 FM 1560N	04/06/2007	0927	4.69	413.5	330	8.96	N
100	11021 FM 1560N	04/09/2007	1340	4.53	371.5	330	12.36	N
106	12801 Wagon Pass	03/13/2007	0950	15.5	432	330	29.84	Y
106	12801 Wagon Pass	03/13/2007	0950	13.78	439	350	30.25	Y

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
106	12801 Wagon Pass	03/14/2007	1030	17.81	429	330	33.27	Y
106	12801 Wagon Pass	03/14/2007	1030	16.07	437.5	350	33.37	Y
106	12801 Wagon Pass	03/14/2007	1600	16.96	445.5	330	33.51	Y
106	12801 Wagon Pass	03/15/2007	0902	7.82	424.5	340	18.46	Y
106	12801 Wagon Pass	03/15/2007	0902	13.18	427.5	330	26.94	Y
106	12801 Wagon Pass	03/15/2007	1710	13.19	423	330	25.99	Y
106	12801 Wagon Pass	03/16/2007	0918	9.74	419.5	340	21.86	Y
106	12801 Wagon Pass	03/16/2007	0918	11.05	433	330	21.76	Y
106	12801 Wagon Pass	03/16/2007	1550	10.32	423	330	20.09	Y
106	12801 Wagon Pass	03/17/2007	0903	9.16	430	330	18.17	Y
106	12801 Wagon Pass	03/17/2007	0903	7.98	439	330	17.6	Y
106	12801 Wagon Pass	03/17/2007	1357	8.53	428	330	18.17	Y
106	12801 Wagon Pass	03/18/2007	0837	4.32	370.5	330	9.17	N
106	12801 Wagon Pass	03/18/2007	0837	3.25	389.5	330	7.49	N
106	12801 Wagon Pass	03/18/2007	0837	1.81	443	340	7.47	N
106	12801 Wagon Pass	03/18/2007	1412	2.6	388	330	5.68	N
106	12801 Wagon Pass	03/19/2007	0950	6.64	404.5	330	14.66	N
106	12801 Wagon Pass	03/19/2007	0950	6.22	414.5	330	17.23	N
106	12801 Wagon Pass	03/19/2007	1605	6.82	443	330	14.68	N
106	12801 Wagon Pass	03/20/2007	1100	6.37	433	330	13.86	N
106	12801 Wagon Pass	03/20/2007	1458	6.65	422	330	12.86	N
106	12801 Wagon Pass	03/21/2007	0855	5.57	432.5	330	11.37	N
106	12801 Wagon Pass	03/21/2007	1400	5.73	438	330	11.27	N
106	12801 Wagon Pass	03/22/2007	0830	5.33	405	330	11.23	N
106	12801 Wagon Pass	03/22/2007	1315	5.02	423	330	11.26	N
106	12801 Wagon Pass	03/23/2007	0853	5.59	433	330	11.56	N
106	12801 Wagon Pass	03/23/2007	1705	5.43	415	330	11.83	N
106	12801 Wagon Pass	03/24/2007	0930	4.93	423	330	11.85	N
106	12801 Wagon Pass	03/24/2007	1315	4.69	434	330	10.17	N

APPENDIX B: (cont.)

Site No.	Address	Date Collected	Time Collected	Average Intensity	Maximum Emission	Maximum Excitation	Maximum Intensity	Evidence of Fire Water
106	12801 Wagon Pass	03/25/2007	0941	4.85	427	330	10.25	N
106	12801 Wagon Pass	03/25/2007	1338	5	423	330	10.7	N
106	12801 Wagon Pass	03/26/2007	0915	4.64	423	330	10.09	N
106	12801 Wagon Pass	03/27/2007	1154	4.74	423	330	10.97	N
106	12801 Wagon Pass	03/28/2007	1145	6.7	440.5	330	14.07	N
106	12801 Wagon Pass	03/29/2007	1055	7.26	416	330	13.47	N
106	12801 Wagon Pass	03/30/2007	1410	6.01	423	330	12.67	N
106	12801 Wagon Pass	03/31/2007	1113	8.77	430.5	340	19.33	N
106	12801 Wagon Pass	03/31/2007	1113	9.81	440.5	330	19.11	N
106	12801 Wagon Pass	04/01/2007	1545	7.99	427.5	340	18.04	N
106	12801 Wagon Pass	04/01/2007	1545	8.8	429	330	17.9	N
106	12801 Wagon Pass	04/02/2007	1218	7.33	430	330	16.73	N
106	12801 Wagon Pass	04/02/2007	1218	7.68	433	330	15.5	N
106	12801 Wagon Pass	04/04/2007	1115	6.02	422.5	330	12.55	N
106	12801 Wagon Pass	04/05/2007	1135	6.22	406.5	330	12.47	N
106	12801 Wagon Pass	04/06/2007	1125	6.23	424.5	330	11.6	N
106	12801 Wagon Pass	04/09/2007	1502	8	373.5	330	15.03	N