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January 12, 2001

David Neleigh, Chief
New Mexico - Federal Facilities Section
Environmental Protection Agency – Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

RE: RCRA Section 3011 FY2001 Work Plan, Submittal of Elements 9 and 10, Cerro Grande Fire Effects on Water Quality at Los Alamos National Laboratory, EPA ID#: NM 0890010515

Dear Mr. Neleigh:

This letter is to formally transmit Elements 9 and 10 of the New Mexico Environment Department - Hazardous Waste Bureau's RCRA Section 3011 FY2001 Work Plan. Enclosed are the narrative entitled *"Cerro Grande Fire Effects on Water Quality at Los Alamos National Laboratory"*, a map illustrating sample locations (Figure 1) and data tables for surface and groundwater/spring analyses (Tables 1a-h and 2a-g).

If you have any questions please contact either myself at (505) 827-1557, extension 1012 or John Young at (505) 827-1557, extension 1036.

Sincerely,

John E. Kieling
Permits Management Program

JEK/jry

13470

Cc w/out enclosure:

C. Abeyta, NMED HWB
J. Bearzi, NMED HWB
A. Zimmerman, EPA 6TD-6

RCRA Section 3011 FY2001 Work Plan – Elements 9 and 10

New Mexico Environment Department–Hazardous Waste Bureau

Cerro Grande Fire Effects on Water Quality at Los Alamos National Laboratory

Introduction

Several Pajarito Plateau watersheds impacted by the Cerro Grande Fire have streams containing perennial segments or reaches. In the Los Alamos area, these perennial reaches are primarily fed by springs and may often be found within the same stream course in a canyon. The perennial segments occur both within and downstream of burned areas and only join during major storm or snow-melt events. Lengths of perennial reaches in watershed canyons vary from less than one mile to approximately 15 miles. Only one perennial reach in lower Pajarito Canyon actually connects with the Rio Grande on a permanent basis. Water flow in many of the perennial reaches and springs on the Pajarito Plateau have decreased over the last few years as a result of drought conditions.

Due to the drought conditions and high winds, a prescribed burn set on Bandelier National Park (May 5, 2000 through May 20, 2000), quickly grew out of control. The resulting fire burned approximately 48,000 acres of the Santa Fe National Forest, National Park Service, San Ildefonso and Santa Clara tribal lands as well as some privately controlled land. Roughly 9,000 acres of the 48,000 were Department of Energy controlled land, more specifically Los Alamos National Laboratory. The intensity of the burn ranged from low to high (Figure 1); however, areas west and north of LANL proper were typically burned more severely.

For the past several years the New Mexico Environment Department's Hazardous Waste Bureau (HWB), Department of Energy-Oversight Bureau (DOE-OB) as well as the Environmental Protection Agency (EPA) Region 6 have acquired baseline water-quality and ecological data for the streams and springs in Pajarito Canyon. Our pre-fire sampling activities have shown that LANL derived contaminants, primarily high explosive compounds, have impacted the Pajarito Canyon watershed surface and shallow groundwater systems. In order to document any changes in Pajarito Canyon watershed due to drought and the fire, HWB modified Elements 9 and 10 of the RCRA Section 3011 FY2001 Work Plan so that a more thorough evaluation of initial post-fire impacts can be accomplished.

Modifications to Original RCRA Section 3011 FY2001 Work Plan

The original scope of work for the HWB's RCRA Section 3011 FY2001 Work Plan (Work Plan) Elements 9 and 10, included background soil, sediment and water analyses as well as additional sampling in the Pajarito Canyon watershed. However, modifications to the proposed Work Plan were deemed necessary as a result of the fire. These modifications were warranted in order to identify any post-Cerro Grande Fire baseline hydrochemical changes and to provide assistance to Los Alamos National Laboratory (LANL) due to overburdened resources as a result of the fire. The urgency of

these modifications stemmed from the short time frame between the fire and the expected monsoon season that typically begins late June to early July. The monsoon was expected to drastically impact the watersheds that dissect LANL due to potential floods that were modeled to be two to three *orders of magnitude* greater than pre-fire floods.

Instead of background sampling of soil, sediment and water on the Pajarito Plateau (Element 9), the primary focus of resources was for the characterization of the surface and ground water in the Pajarito Canyon Watershed (Element 10). Sampling was also coordinated with LANL as their resources were encumbered with various aspects of the fire recovery such as stabilization of solid waste management units impacted by the fire, removal of contaminated sediment and structures from canyon bottoms and studying approaches to manage potential flood waters from the upcoming monsoon season.

Characterization of the water quality/chemistry of these streams and springs are of particular interest because the surface and alluvial systems: 1) may supply water for irrigation and residential uses on the Pueblo of San Ildefonso land; 2) will provide an indication of recharge rates; 3) may change the mobilization potential of contaminants in the subsurface; 4) supply a permanent drinking water source for wildlife and livestock inhabiting the watersheds; 5) provide insight to the watershed recovery from the effects of the fire; and 6) supply a recharge component to the deep regional aquifer which is used for drinking-water and industrial purposes.

Methods

Filtered and unfiltered samples were collected. The filtration was accomplished in the field using a portable Geopump™ and inline 0.45 μm filter. Inorganic and nonmetal inorganic samples were collected in plastic, 1-liter, 500-ml or 250-ml bottles. Samples that required preservation were pre-preserved with nitric acid for metals, sulfuric acid for non-metallic inorganics, except for cyanide analyses that were preserved with sodium hydroxide. Samples collected for anion analyses were unfiltered and not preserved. High explosive, PAH, and dioxin/furan samples were collected in 1-liter, glass amber bottles. Total organic carbon analyses were collected in either two glass 40-ml vials with zero headspace or one 125-ml glass bottle pre-preserved with sulfuric acid. Perchlorate samples were collected in 40-ml glass vials. Bottles that were not pre-acidified were rinsed 3 times with spring or surface water prior to sample collection.

Samples were stored in a refrigerator and shipped either at a later time or shipped the same day as collection via overnight carrier to a NMED contract laboratory. All coolers were packed with ice to maintain an approximate 4°C sample temperature. Samples were analyzed and prepared in accordance with the latest edition of the EPA SW-846 methods or other industry accepted methodologies (i.e., for the radionuclide analyses).

All field pH and temperature measurements were obtained using an Orion Model 290A ion-specific meter with an automatic temperature compensated electrode. Conductivity measurements were acquired with an Orion Model 124 meter. Field instruments were calibrated according to manufacture specifications prior to use.

Sampling Activities

Sampling activities began May 2, 2000 prior to the fire that was started May 5, 2000. Two samples were collected from PC Spring, considered to be the headwaters-point source, and, the surface-water station; PA-10.6 (Figure 1) located approximately 2 mi downstream of PC Spring. Continued sampling was planned for the following week; however, control of the Cerro Grande Fire, a prescribed National Park Service burn, was lost. Postponement and subsequent modification to the original scope of work was warranted. Due to safety (e.g., continued threat of fire and "killer trees") and security issues, post-fire access to Forest Service and DOE-LANL property was restricted. Sampling efforts were restarted May 25, 2000 and continued through the end of June 2000.

A total of eleven samples were collected in the upper section of the Pajarito Canyon watershed: six springs and five surface water locations (Figure 1). The springs include PC, Bulldog, Charlie's, Starmer, Kieling and Homestead. The surface water locations include PA-10.6, PA-8.9, BU-0.01, PA-6.7 and SR 501 Pond. Although efforts were made to collect all samples prior to the first major rain-flood event (June 2, 2000), several rains and subsequent floods had impacted the Pajarito Watershed and the analyses do not represent pre-flood baseline conditions, but do reflect initial flood baseline concentrations.

In addition to the Pajarito Canyon sampling, three samples were collected from DP Spring and two alluvial aquifer wells in Los Alamos Canyon (LAO-2 and LAO-3A). This effort was coordinated with LANL sampling and designed to document pre-monsoon (flood) water quality through out the canyon system on LANL property. Additional wells and surface water locations in Los Alamos Canyon were to be sampled; however, due to drought conditions that have occurred in the region over the past several years prior to the fire, these wells were dry.

Analytical suites were expanded from routine suites in order to document and identify as many constituents as possible that may have resulted from the fire due to incomplete combustion of forest and industrial material/debris [(e.g., dioxins/furans, polynuclear aromatic hydrocarbons (PAH)]. Other analyses conducted include: major anions and cations, high explosives, twenty-three target analyte list metals (totals and dissolved) plus cyanide, total organic carbon, nitrate-nitrite (as nitrogen), ammonia, low-level tritium, isotopic uranium, stable isotopes, low-level gross alpha/beta, total dissolved solids, total suspended solids. While high explosives were removed from the analytical suite, a more complete radionuclide suite (e.g, strontium-90, isotopic plutonium and isotopic americium) was selected for the Los Alamos Canyon samples due to the known release history. Perchlorate analyses were acquired by the NMED DOE-OB and are included in the data tables.

One quality assurance and quality control field replicate sample was collected (PA-6.7DP). The NMED DOE-OB collected additional QA/QC samples as a laboratory

check. Some samples missed hold times for dioxin/furan and PAH analysis and were cancelled prior to sample extraction and analyses.

Observations

Post-fire field observations include localized scouring and sediment deposition as a result of multiple-flooding events. As a result of the flooding, a noticeable decrease in stream insect taxa density and richness has occurred. Readily noticeable impacts include changes to the stream morphology (characteristics) due to flooding. The changes observed include deep incision, scouring of stream bottom habitat and destruction of riparian vegetation.

Estimated flow rates at each spring and surface water location were substantially lower than observed flow rates in past sampling events. The Starmer Spring flow rate for example dropped from roughly 15 gpm to less than 10 gpm. Other springs were reduced to less than 0.5 gpm (e.g., Homestead, Kieling and Charlie's). Surface water flow rates had also diminished due to the drought conditions over the last few years. Since the fire, monthly to bimonthly observations of the springs indicate that recharge from surface/storm water to the shallow perched spring system occurs over a short time frame, within 1 month. This is evidenced by a marked increase in flow in addition to spring and surface water pH and conductivity measurements that correlate to surface water conditions.

Post-fire water chemistry analytical results suggest that the surface and shallow perched groundwater systems have undergone a decrease in water quality, but not to levels that necessarily warrant any type of corrective action. Sampling results are presented in Tables 1a-h and 2a-g. Observed (initial) changes in Pajarito Canyon surface and spring water chemistry resulting from the fire are summarized below.

- Elevated pH influenced by the presence of ash in storm water run off;
- Increased conductivity due to increased concentrations of dissolved constituents;
- Total organic carbon concentrations have increased from 1 to 3 mg/l to 1 to 6 mg/l in springs and (3 to 100 mg/l observed in surface water) due to availability of metals and radionuclide(s) in the ash;
- Natural components such as bicarbonate and sulfate that were originally present in the stream and spring waters before the fire are now present at concentrations at about three times their normal levels;
- Levels of the trace metal manganese (Mn) in the streams (3.07 mg/l maximum observed) exceed the New Mexico Water Quality Control Commission (NMWQCC) regulatory standard (0.20 mg/l) and EPA Region 6 Secondary Drinking Water standard (0.05 mg/l). This is a concern because these surface waters supply recharge to shallow canyon-bottom aquifers and deeper aquifers that are regulated under the NMWQCC;

- Cyanide was detected in surface water (0 – 0.019 mg/l) below NMWQCC and Drinking Water standard of 0.2 mg/l. Cyanide can form naturally during a forest fire; however, sodium ferrocyanide is a constituent found in fire retardant (a rust inhibitor) and was used during the fire. Cyanide was also observed (~6 mg/kg maximum) in ash-laden sediments collected down gradient of the Cerro Grande fire;

- Dioxins/furans were detected in surface water samples upgradient (west) of LANL (PA-10.6) as well as one location within LANL (Pajarito Canyon-Twomile Canyon confluence, PA-6.7);

- Tritium activities appear consistent with past data in the Pajarito Canyon Watershed ranging from 0 to 150 pCi/L and;

- Concentrations of high explosive compounds (e.g., RDX, HMX, TNT, and DNT) were detected in surface water and springs are within the range with pre-fire concentrations (non-detect to 6 μg/L).

Subsequent New Mexico Environment Department (HWB and DOE-OB) sampling of ash and sediment indicate that LANL metal concentrations are elevated from pre-fire concentrations providing an explanation for the increased metals and radiological constituents observed in the surface and spring waters. These increases are the result of mixing of sediment and ash transported by storm water. The ash, for example, shows increased metals concentrations as well as elevated activity concentrations of fall-out radionuclides such as strontium-90 and plutonium-239/240. The elevated concentrations and activities of metals and radionuclides that exist in the ash are likely are concentrated in the ash is likely the result of plant metabolism of nutrients and the concentration of the non-combustible/non-volatile constituents within the cell structure. Radionuclide analyses were limited to low-level tritium and isotopic uranium in this portion of the lab because other radionuclides were not expected. However, future sampling efforts will consider these constituents to better understand fate and transport issues.

Recommendations

NMED will continue to monitor these waters throughout the winter and the following years. LANL will also be required to continue characterization of the water chemistry on the Pajarito Plateau in order to better understand and predict potential impacts on the fate and transport of contamination in the canyon sediments as well as the surface and ground water systems.

Table 1a - NMED Hazardous Waste Bureau Surface-Water Quality Results:General Chemistry

STATION ID	Lab		Type	Date	Time	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Na (mg/L)	Cl (mg/L)	ClO4 (ug/L)	TOC mg/L	Br (mg/L)	F (mg/L)	CO3 (mg/L)	HCO3 (mg/L)	TOTAL PHOS (mg/L)	SO4 (mg/L)	NO2-NO3 AS N (mg/L)	TKN (mg/L)	NH3 (mg/L)	TDS (mg/L)	TSS (mg/L)	CN mg/L	FIELD NO3 AS N (mg/L)	FIELD pH (S.U.)	FIELD SC (uS/cm)	FIELD TDS (ppm)	TEMP. (°C)	dO (mg/L)
Pajarito Canyon Watershed																														
✓PA-10.6	PAR,PIN	1 F	P	5/2/2000	14:20	6.6	2.7	2.2	4.3	0.78	<5	3.1	<0.2	<0.1	<5	46	0.08	2.5	0.13	1.0	<0.1	76	<20	NA	NA	7.16	79	41	11.5	NA
	PAR	T	P	5/2/2000	14:20	6.9	2.8	2.2	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.16	79	41	11.5	NA
**	PAR,PIN	F	P	5/25/2000	10:30	37	4.5	2.8	4.7	0.88	<5	2.7	<0.2	<0.1	<10	62	0.17	3.6	0.089	<2.5	<0.5	110	<20	<0.01	NA	7.36	109	56	12	NA
	PAR	T	P	5/25/2000	10:30	pending	4.5	2.8	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.36	109	56	12	NA
	PAR	F	P/ST	6/29/2000	11:10	60	14	13	6	2.8	NA	NA	<0.2	0.12	<10	190	0.84	38	0.49	5.3	0.64	410	<20	0.015	NA	7.48	442	NA	13.8	NA
	PAR	T	P/ST	6/29/2000	11:10	99	17	22	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.48	442	NA	13.8	NA
	PIN	F	P/ST	6/29/2000	11:10	NA	NA	NA	NA	NA	<10	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.48	442	NA	13.8	NA
✓SR 501 Pond**	PAR,PIN	2 F	SBW/M	5/25/2000	12:15	36	9	10	200	350	<10	21	<0.2	0.14	<10	64	0.09	7.3	<0.05	4.9	<0.5	720	<20	<0.01	NA	7.55	1201	585	19.9	NA
	PAR	2 T	SBW/M	5/25/2000	12:15	pending	9.2	11	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.55	1201	585	19.9	NA
✓BU - 0.01	PAR,PIN	F	P	6/15/2000	14:30	24	5.4	4.1	21	18	<5	5	<0.2	0.26	<5	100	0.28	14	0.33	1.7	<0.5	200	<20	<0.01	NA	7.5	256	125	23.3	NA
	PAR	T	P	6/15/2000	14:30	25	5.6	4.2	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.5	256	125	23.3	NA
✓PA - 8.9	PAR,PIN	F	P	6/15/2000	15:20	33	8.4	4.9	13	11	<5	8.4	<0.2	0.1	<5	110	0.25	21	0.15	1.5	<0.5	200	<20	<0.01	NA	7.9	271	132	22.7	NA
	PAR	T	P	6/15/2000	15:20	33	8.5	4.8	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.9	271	132	22.7	NA
✓PA - 6.7	PAR	F	P/ST	6/29/2000	9:30	55	12	16	9.3	11	NA	NA	<0.2	<0.1	<10	170	0.81	48	1	14.3	<0.5	620	80	0.019	NA	7.15	431	NA	12.8	NA
	PAR	T	P/ST	6/29/2000	9:30	60	14	13	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.15	431	NA	12.8	NA
	PIN	F	P/ST	6/29/2000	9:30	NA	NA	NA	NA	NA	<10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.15	431	NA	12.8	NA
✓PA - 6.7DP	PAR	F	P/ST	6/29/2000	9:30	56	12	16	9.2	11	NA	NA	<0.2	<0.1	<10	180	0.92	47	0.87	14.2	<0.5	580	1000	0.015	NA	7.09	431	NA	13.6	NA
	PAR	T	P/ST	6/29/2000	9:30	99	17	23	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.09	431	NA	13.6	NA
	PIN	F	P/ST	6/29/2000	9:30	NA	NA	NA	NA	NA	<10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.09	431	NA	13.6	NA

All nonmetals and anion inorganic data derived from non-filtered samples

1 - broken bottle and intact bottles received in same cooler

PAR - Paragon Laboratory

PIN - Pinnacle Laboratory

TKN - Total kjeldahl nitrogen

* - Temperature may not represent true ground-water temperature due to low-flow conditions

** - Low temperature due to sampling through piping and filter apparatus

TDS - Total dissolved solids

TSS - Total suspended solids

SC - Specific conductance

NA - Not analyzed or not available

T - Totals

F - Filtered (dissolved)

^^ - Negative result detection or less than the instrument detection limit

- Holding Times Broken

- The serial dilution indicates possible chemical or physical interference(s)

D - Compounds identified in an analysis at a secondary dilution factor.

N - Matrix spike recovery outside the acceptance limits. A post-digestion spike was performed to evaluate matrix effect.

† - Sample concentration is too low for reliable analysis.

DP - Duplicate

** Samples received at 17°C

✓-Fire Related

Surface Water Types

E/D - Ephemeral reach without contributions from storm-water and/or snowmelt runoff (supported by delayed flow after storm or snowmelt events).
E/SM - Ephemeral reach with contributions mainly from snowmelt runoff.
E/ST - Ephemeral reach with contributions mainly from storm-water runoff.
OF - Ephemeral reach with flow supported by outfall(s).
P - Perennial reach without significant contributions from storm-water and/or snowmelt runoff (supported by baseflow).
P/SM - Perennial reach with some contributions from snowmelt runoff.
P/ST - Perennial reach with some contributions from storm-water runoff.
P?/ST - Probable perennial reach with some contributions from storm-water runoff.
P? - Probable perennial reach without contributions from storm-water and/or snowmelt runoff.
SBW/M - Standing body of water located on mesa top with contributions from storm-water and/or snowmelt runoff.
1 - Samples collected post Cerro Grande fire under stagnant conditions.
2 - Samples collected post Cerro Grande fire, immediately following storm event

Table 1b - NMED Hazardous Waste Bureau Surface-Water Quality Results: Dissolved and Total Trace Metals

STATION ID		Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)	Li (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
Pajarito Canyon Watershed																											
✓PA-10.6	PAR F	5/2/2000 14:20	<0.01	NA	<0.01	<0.1	<0.1	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	<0.01	NA	NA	<0.003	NA	<0.005	18	NA	0.061	NA	NA	NA
	PAR T	5/2/2000 14:20	<0.01	NA	<0.01	<0.1	<0.1	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	0.019	NA	NA	<0.003	NA	0.006	19	NA	0.064	NA	NA	NA
**	PAR F	5/25/2000 10:30	<0.01	0.26	<0.01	<0.01	<0.1	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	<0.01	NA	NA	<0.003	NA	<0.005	17	NA	0.29	NA	NA	NA
	PAR T	5/25/2000 10:30	<0.01	pending	<0.01	pending	<0.1	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	0.019	NA	NA	<0.003	NA	<0.005	17	NA	pending	NA	NA	NA
	PAR F	6/29/2000 11:10	<0.01	<0.2	<0.01	<0.1	0.19	<0.005	<0.005	<0.01	<0.01	<0.01	0.11	<0.0002	<0.01	0.31	NA	<0.02	<0.003	<0.02	<0.005	9.7	NA	NA	<0.01	<0.01	<0.02
	PAR T	6/29/2000 11:10	<0.01	35	0.016	NA	1.2	<0.005	<0.005	0.019	0.014	0.044	22	<0.0002	NA	3	NA	0.039	0.052	<0.02	0.0051	NA	NA	NA	<0.01	0.043	0.16
✓SR 501 Pond **	PAR F	5/25/2000 12:15	<0.01	<0.2	<0.01	<0.1	0.25	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	0.085	NA	NA	<0.003	NA	<0.005	1	NA	0.28	NA	NA	NA
	PAR T	5/25/2000 12:15	<0.01	pending	<0.01	pending	0.57	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	1.3	NA	NA	<0.003	NA	<0.005	1	NA	pending	NA	NA	NA
✓BU - 0.01	PAR F	6/15/2000 14:30	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	<0.01	0.015	NA	<0.02	<0.003	<0.02	<0.005	20	NA	NA	<0.01	<0.01	<0.02
	PAR T	6/15/2000 14:30	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	NA	0.073	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓PA - 8.9	PAR F	6/15/2000 15:20	<0.01	<0.2	<0.01	NA	0.12	<0.005	<0.005	<0.01	<0.01	<0.01	0.12	<0.0002	<0.01	0.25	NA	<0.02	<0.003	<0.02	<0.005	15	NA	NA	<0.01	<0.01	<0.02
	PAR T	6/15/2000 15:20	<0.01	<0.2	<0.01	NA	0.12	<0.005	<0.005	<0.01	<0.01	<0.01	0.19	<0.0002	NA	0.29	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓PA - 6.7	PAR F	6/29/2000 8:30	<0.01	<0.2	<0.01	<0.1	0.19	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	<0.01	0.47	NA	<0.02	<0.003	<0.02	<0.005	6.4	NA	NA	<0.01	<0.01	0.024
	PAR T	6/29/2000 8:30	<0.01	<0.2	<0.01	NA	0.19	<0.005	<0.005	<0.01	<0.01	<0.01	0.13	<0.0002	NA	0.31	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓PA - 6.7DP	PAR F	6/29/2000 9:30	<0.01	0.54	<0.01	<0.1	0.2	<0.005	<0.005	<0.01	<0.01	<0.01	0.35	<0.0002	<0.01	0.49	NA	<0.02	<0.003	<0.02	0.0052	6.8	NA	NA	<0.01	<0.01	<0.02
	PAR T	6/29/2000 9:30	<0.01	0.39	0.014	NA	1.3	<0.005	<0.005	0.22	0.015	0.047	26	<0.0002	NA	3	NA	0.039	0.058	<0.02	0.0098	NA	NA	NA	<0.01	0.046	0.16

DP - Duplicate

PAR - Paragon Laboratory

NA - Not analyzed or not available

T - Totals

F - Filtered (dissolved)

A - Duplicate precision not within control limits.

N - Matrix spike recovery outside the acceptance limits. A post-digestion spike was performed to evaluate matrix effect.

M - Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate.

B - Detected in method blank.

† - Serial dilution results suggest possible physical or chemical interference(s).

§ - Holding Times Broken

** Samples received at 17°C

✓-Fire Related

Table 1c - NMED Hazardous Waste Bureau Surface-Water Quality Results:Radionuclides

STATION ID		Date	H3 (pCi/L)	UNC/DL	90Sr (pCi/L)	UNC/DL	U (ug/L)	UNC/DL	234U (pCi/L)	UNC/DL	235U (pCi/L)	UNC/DL	238U (pCi/L)	UNC/DL	227Ac (pCi/L)	UNC/DL	238Pu (pCi/L)	UNC/DL	239/240 Pu (pCi/L)	UNC/DL	241Am (pCi/L)	UNC/DL
Pajarito Canyon Watershed																						
✓PA-10.6	PAR T	5/2/2000 14:20	37.7	2.6/1.3	NA	-	0.13[J]	0.02/0.20	0.088	0.059/0.054	<0.009	0.026/0.064	<0.009	0.026/0.064	NA	-	NA	-	NA	-	NA	-
	PAR T	5/25/2000 10:30	32.9	2.0/1.0	NA	-	0.20	0.03/0.20	0.116	0.039/0.032	0.025	0.018/0.023	0.040	0.024/0.030	NA	-	NA	-	NA	-	NA	-
	PAR T	6/29/2000 11:10	35.12	2.56/1.28	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓SR 501 Pond	PAR T	5/25/2000 12:15	139.2	8.9/4.5	NA	-	0.48	0.07/0.20	0.130	0.041/0.030	0.042	0.024/0.027	0.105	0.038/0.033	NA	-	NA	-	NA	-	NA	-
✓BU - 0.01	PAR T	6/15/2000 14:30	106.3	7.0/3.5	NA	-	0.73	0.10/0.20	0.26	0.11/0.067	<0.018	0.030/0.056	0.21	0.11/0.11	NA	-	NA	-	NA	-	NA	-
✓PA - 8.9	PAR T	6/15/2000 15:20	52.7	3.2/1.6	NA	-	1.27	0.17/0.20	0.56	0.18/0.086	0.055	0.049/0.030	0.46	0.16/0.058	NA	-	NA	-	NA	-	NA	-
✓PA - 6.7	PAR T	6/29/2000 8:30	45.34	3.2/1.8	NA	-	3.54	0.48/1.00	1.10	0.23/0.055	0.084	0.052/0.055	1.20	0.25/0.045	NA	-	NA	-	NA	-	NA	-
✓PA - 6.7DP	PAR T	6/29/2000 9:30	46.3	3.2/1.6	NA	-	3.63	0.49/1.00	1.17	0.25/0.071	0.031	0.038/0.067	1.17	0.25/0.39	NA	-	NA	-	NA	-	NA	-

PAR - Paragon Laboratory

UNC-Uncertainties (2 Sigma)

NA - Not analyzed or not available

BLD-Below detection limit

* Preserved prior to filtration.

** Preserved after filtration.

f - See flags

U - Result is less than the sample specific minimum detectable activity.

LT - Result is less than requested MDC, Greater than sample specific MDC.

J - Estimated value; result between Method Detection Limit and Reporting Limit.

DP - Duplicate

‡ - Nonfiltered, nonacidified

✓-Fire Related

Table 1c - NMED Hazardous Waste Bureau Surface-W

STATION ID		Date	237Np (pCi/L)	UNC/DL	228Th (pCi/L)	UNC/DL	230Th (pCi/L)	UNC/DL	232Th (pCi/L)	UNC/DL	Gross Alpha (pCi/L)	UNC/DL	Gross Beta (pCi/L)	UNC/DL
Pajarito Canyon Watershed														
✓PA-10.6	PAR T	5/2/2000 14:20	NA	-	NA	-	NA	-	NA	-	1.09	0.57/0.86	2.61	0.74/1.0
	PAR T	5/25/2000 10:30	NA	-	NA	-	NA	-	NA	-	1.33	0.55/0.79	3.11	0.78/1.0
	PAR T	6/29/2000 11:10	NA	-	NA	-	NA	-	NA	-	2.08	0.59/0.71	17.3	2.5/0.96
✓SR 501 Pond	PAR T	5/25/2000 12:15	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓BU - 0.01	PAR T	6/15/2000 14:30	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓PA - 8.9	PAR T	6/15/2000 15:20	NA	-	NA	-	NA	-	NA	-	1.16	0.59/0.87	7	1.3/1.3
✓PA - 6.7	PAR T	6/29/2000 8:30	NA	-	NA	-	NA	-	NA	-	7.1	1.3/1.0	44.8	6.2/1.3
✓PA - 6.7DP	PAR T	6/29/2000 9:30	NA	-	NA	-	NA	-	NA	-	8.1	1.5/1.0	43.4	6.0/1.0

PAR - Paragon Laboratory

UNC-Uncertainties (2 Sigma)

NA - Not analyzed or not available

BLD-Below detection limit.

* Preserved prior to filtration.

** Preserved after filtration.

f - See flags

U - Result is less than the sample specific minimum detectable activity

LT - Result is less than requested MDC, Greater than sample specific MDC.

J - Estimated value; result between Method Detection Limit and Reporting Limit.

DP - Duplicate

‡ - Nonfiltered, nonacidified

✓-Fire Related

Table 1d - NMED Hazardous Waste Bureau Surface-Water Quality Results:Radionuclides (Gamma Spec.)

STATION ID			Date	241Am (pCi/L)	UNC	137Cs (pCi/L)	UNC	60Co (pCi/L)	UNC	212Pb (pCi/L)	UNC	214Pb (pCi/L)	UNC	228Ac (pCi/L)	UNC	208Tl (pCi/L)	UNC	214Bi (pCi/L)	UNC	212Bi (pCi/L)	UNC	22Na (pCi/L)	UNC	235U (pCi/L)	UNC
Pajarito Canyon Watershed																									
✓PA - 8.9	PAR	T	6/15/2000 15:20	0[SQ]	0/19	<-0.2	2.9/4.9	<-1.2	3.3/5.7	<-1	11.0/10.0	<-2.1	7.5/9.8	<-20	610/20	5.9	3.9/4.6	<-9	21/14	<9	29/39	<-0.9	3.2/5.4	<4	16/27
✓PA - 6.7	PAR	T	6/29/2000 8:30	<1	14/25	<1	2.4/4.0	<0.4	2.4/4.2	<0.1	3.6/6.5	<-3.6	9.1/10	<-1	16/18	<-2.3	5.6/4.7	<10.3	6.3/11	<2	20/34	<0.5	2.6/4.4	82[TI]	28/27
✓PA - 6.7DP	PAR	T	6/29/2000 9:30	<-1	14/24	<-0.5	2.6/4.5	<1.4	2.8/4.7	<5.4	8.3/8.3	<1.4	9.9/10	<9	17/20	9.1	6.3/5.8	17	13/12	<0	22/37	<0.6	2.8/4.7	<-100	2600/28
✓PA-10.6	PAR	T	5/2/2000 14:20	0[SQ]	0/26	<-0.2	2.6/4.5	<-0.9	3.1/5.1	<0	13/10	<9	12.0/11.0	35	29/22	10.1	5.9/4.9	<8	13/12	<-5	51/39	<-1.1	3.3/5.3	<1	14/24
	PAR	T	5/25/2000 10:30	<-6	16/27	<-1.4	2.9/4.9	<0.6	2.9/4.9	<2.1	8.7/10	<0	12.0/13.0	<15	20/19	<-8	46/5.6	<2.3	9.8/13	<-10	120/39	<0	2.9/4.8	<0	16/27
	PAR	T	6/29/2000 11:10	<5	15/25	<0.1	2.3/4.0	<0.4	2.6/4.5	10.1	8.6/8.8	<-5	14/12	<-15	38/17	<5.9	8.6/5.2	<-8	19/13	<-4	50/33	<-0.5	2.8/4.7	<2	14/24
	PIN	T	7/24/2000 9:05	ND	<70	ND	<30	ND	<30	ND	<30	ND	<70	ND	<70	ND	<20	ND	<80	ND	<300	NA	-	NA	-
✓SR 501 Pond	PIN	T	7/24/2000 9:50	ND	<70	ND	<20	ND	<20	ND	<40	ND	<40	ND	<80	ND	<30	ND	<50	ND	<300	NA	-	NA	-

PAR - Paragon Laboratory

PIN - Pinnacle Laboratories

UNC-UNCERTAINTIES (2 SIGMA)

NA-NOT ANALYZED

BLD-BELOW DETECTION LIMIT

* PRESERVED PRIOR TO FILTRATION

** PRESERVED AFTER FILTRATION

f - see flags

SQ - SPECTRAL INTERFERENCE PREVENTS ACCURATE

TI - NUCLIDE IDENTIFICATION IS TENTATIVE

DP - DUPLICATE

ND - NOT DETECTED

✓-Fire Related

Table 1e - NMED Hazardous Waste Bureau Surface Water analytical results: High Explosive Compounds.

SAMPLE ID:	✓SR 501 Pond		✓PA-10.6		✓BU - 0.01		✓PA - 8.9		✓PA - 6.7		✓PA - 6.7DP		✓BU - 0.01	
SAMPLING DATE:	5/25/2000 12:15	PAR	5/25/2000 10:30	PAR	6/15/2000 14:30	PAR	6/15/2000 16:20	PAR	6/29/2000 8:30	PAR	6/29/2000 9:30	PAR	11/15/2000 2:30	PAR
	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL
OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	ND	1	ND	1	2.10	1	ND	1	3.60	1	1.30	1	3.10	1
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE (RDX)	ND	0.84	ND	0.84	2.20	0.84	ND	0.84	ND	0.84	ND	0.84	3.50	0.84
1,3,5-TRINITROBENZENE (1,3,5-TNB)	ND	0.26	ND	0.26	ND	0.26	ND	0.26	0.58	0.26	0.32	0.26	ND	0.26
1,3-DINITROBENZENE (1,3-DNB)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	5.50	0.25	ND	0.25	ND	0.25
TETRYL	ND	1	ND	1	0.16[J]	1	ND	1	ND	1	ND	1	ND	1
NITROBENZENE (NB)	ND	1	ND	1	ND	1	ND	1	12	1	15	1	ND	1
4-Amino-2,6-DNT	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2-Amino-4,6-DNT	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2,4,6-TRINITROTOLUENE (2,4,6-TNT)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2,4-DINITROTOLUENE(2,4-DNT)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	0.059[J]	0.25	0.07[J]	0.25	ND	0.25
2,6-DINITROTOLUENE(2,6-DNT)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	0.11[J]	0.25	ND	0.25	ND	0.25
o-NITROTOLUENE (2-NT)	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
p-NITROTOLUENE (4-NT)	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
m-NITROTOLUENE (3-NT)	ND	1	ND	1	ND	1	ND	1	0.25[J]	1	0.17[J]	1	ND	1

J - Indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit

DP - Duplicate

* - Modified Method 8330

NA - Not analyzed or not available

BDL - Below method detection limits

DL - Detection limit (ug/L)

§ - Sample out of hold time

? - Method detection limit not yet determined.

(A) & (B) - Samples collected at two distinct discharge points

† - sample not recieved at contract laboratory at 4 degrees celsius

PAR - Paragon Laboratory

PIN - Pinnacle Laboratory

✓-Fire Related

Table 1f - NMED Hazardous Waste Bureau Surface-water analytical results: Volatile Organic Compounds.

SAMPLE ID:	✓BU - 0.01		✓PA 8.9		✓PA 6.7		✓PA 10.6	
SAMPLING DATE:	6/15/2000 14:30	PAR	6/15/2000 15:20	PAR	6/29/2000 8:30	PAR	6/29/2000 11:10	PAR
UNITS	ug/L	RL	ug/L	RL	ug/L	RL	ug/L	RL
PARAMETER								
ACETONE	NA	-	NA	-	NA	-	NA	-
ACROLEIN	NA	-	NA	-	NA	-	NA	-
ACRYLONITRILE	NA	-	NA	-	NA	-	NA	-
BENZENE	NA	-	NA	-	NA	-	NA	-
BROMOBENZENE	NA	-	NA	-	NA	-	NA	-
BROMOCHLOROMETHANE	NA	-	NA	-	NA	-	NA	-
BROMODICHLOROMETHANE	NA	-	NA	-	NA	-	NA	-
BROMOFORM	NA	-	NA	-	NA	-	NA	-
BROMOMETHANE	NA	-	NA	-	NA	-	NA	-
2-BUTANONE (MEK)	NA	-	NA	-	NA	-	NA	-
n-BUTYLBENZENE	NA	-	NA	-	NA	-	NA	-
sec-BUTYLBENZENE	NA	-	NA	-	NA	-	NA	-
tert-BUTYLBENZENE	NA	-	NA	-	NA	-	NA	-
tert-BUTYL METHYL ETHER (MTBE)	NA	-	NA	-	NA	-	NA	-
CARBON DISULFIDE	NA	-	NA	-	NA	-	NA	-
CARBON TETRACHLORIDE	NA	-	NA	-	NA	-	NA	-
CHLOROBENZENE	NA	-	NA	-	NA	-	NA	-
CHLORODIBROMOMETHANE	NA	-	NA	-	NA	-	NA	-
CHLOROETHANE	NA	-	NA	-	NA	-	NA	-
2-CHLOROETHYL VINYL ETHER	NA	-	NA	-	NA	-	NA	-
CHLOROFORM	NA	-	NA	-	NA	-	NA	-
CHLOROMETHANE	NA	-	NA	-	NA	-	NA	-
2-CHLOROTOLUENE	NA	-	NA	-	NA	-	NA	-
4-CHLOROTOLUENE	NA	-	NA	-	NA	-	NA	-
1,2-DIBROMO-3-CHLOROPROPANE	NA	-	NA	-	NA	-	NA	-
DIBROMOCHLOROMETHANE	NA	-	NA	-	NA	-	NA	-
1,2-DIBROMOETHANE (EDB)	NA	-	NA	-	NA	-	NA	-
DIBROMOMETHANE	NA	-	NA	-	NA	-	NA	-
1,2-DICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-
1,3-DICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-
1,4-DICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-
TRANS-1,4-DICHLORO-2-BUTENE	NA	-	NA	-	NA	-	NA	-
DICHLORODIFLUOROMETHANE	NA	-	NA	-	NA	-	NA	-
1,1-DICHLOROETHANE	NA	-	NA	-	NA	-	NA	-
1,2-DICHLOROETHANE (EDC)	NA	-	NA	-	NA	-	NA	-
1,1-DICHLOROETHENE	NA	-	NA	-	NA	-	NA	-
CIS--1,2-DICHLOROETHENE	NA	-	NA	-	NA	-	NA	-
TRANS--1,2-DICHLOROETHENE	NA	-	NA	-	NA	-	NA	-
TRANS--1,2-DICHLOROETHYLENE	NA	-	NA	-	NA	-	NA	-
1,1-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-
1,2-DICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-
1,3-DICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-
CIS--1,3-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-
2,2-DICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-
2,2-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-
TRANS--1,3-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-

Table 1f - NMED Hazardous Waste Bureau Surface-water analytical results: Volatile Organic Compounds.

SAMPLE ID:	✓BU - 0.01		✓PA 8.9		✓PA 8.7		✓PA 10.6	
SAMPLING DATE:	6/15/2000 14:30	PAR	6/15/2000 15:20	PAR	6/29/2000 8:30	PAR	6/29/2000 11:10	PAR
UNITS	ug/L	RL	ug/L	RL	ug/L	RL	ug/L	RL
PARAMETER								
ETHYLBENZENE	NA	-	NA	-	NA	-	NA	-
2-HEXANONE	NA	-	NA	-	NA	-	NA	-
HEXACHLOROBUTADIENE	NA	-	NA	-	NA	-	NA	-
IODOMETHANE	NA	-	NA	-	NA	-	NA	-
ISOPROPYLBENZENE	NA	-	NA	-	NA	-	NA	-
p-ISOPROPYLTOLUENE	NA	-	NA	-	NA	-	NA	-
METHYL-t-BUTYL ETHER	NA	-	NA	-	NA	-	NA	-
4-METHYL-2-PENTANONE	NA	-	NA	-	NA	-	NA	-
1-METHYLNAPHTHALENE	ND	1.10	ND	1.00	ND	1.40	ND	1.00
2-METHYLNAPHTHALENE	ND	1.10	ND	1.00	0.84[J]	1.40	0.21[J]	1.00
4-ISOPROPYLTOLUENE	NA	-	NA	-	NA	-	NA	-
METHYLENE CHLORIDE	NA	-	NA	-	NA	-	NA	-
NAPHTHALENE	ND	0.53	ND	0.51	3	0.71	ND	0.51
n-PROPYLBENZENE	NA	-	NA	-	NA	-	NA	-
PROPYLBENZENE	NA	-	NA	-	NA	-	NA	-
STYRENE	NA	-	NA	-	NA	-	NA	-
1,1,1,2-TETRACHLOROETHANE	NA	-	NA	-	NA	-	NA	-
1,1,2,2-TETRACHLOROETHANE	NA	-	NA	-	NA	-	NA	-
TETRACHLOROETHENE	NA	-	NA	-	NA	-	NA	-
TETRAHYDROFURAN (THF)	NA	-	NA	-	NA	-	NA	-
TOLUENE	NA	-	NA	-	NA	-	NA	-
1,2,3-TRICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-
1,2,4-TRICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-
1,1,1-TRICHLOROETHANE	NA	-	NA	-	NA	-	NA	-
1,1,2-TRICHLOROETHANE	NA	-	NA	-	NA	-	NA	-
TRICHLOROETHENE	NA	-	NA	-	NA	-	NA	-
TRICHLOROFLUOROMETHANE	NA	-	NA	-	NA	-	NA	-
1,2,3-TRICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-
TRICHLOROTRIFLUOROETHANE	NA	-	NA	-	NA	-	NA	-
1,1,2-TRICHLORO-2,2,1-TRIFLUOROETHANE	NA	-	NA	-	NA	-	NA	-
1,2,4-TRIMETHYLBENZENE	NA	-	NA	-	NA	-	NA	-
1,3,5-TRIMETHYLBENZENE	NA	-	NA	-	NA	-	NA	-
VINYL ACETATE	NA	-	NA	-	NA	-	NA	-
VINYL CHLORIDE	NA	-	NA	-	NA	-	NA	-
o-XYLENE	NA	-	NA	-	NA	-	NA	-
p- & m-XYLENE	NA	-	NA	-	NA	-	NA	-
TOTAL XYLENES	NA	-	NA	-	NA	-	NA	-

RL - Reporting limit

NA - Not analyzed

ND - Not detected

B - indicates sample was detected in lab blank as well as in the sample

J - indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit

e - sample not received at contract laboratory at 4 degrees celsius

PAR - Paragon Laboratory

✓-Fire Related

Table 1g - NMED Hazardous Waste Bureau surface-water analytical results: Additional Organic Compounds.

SAMPLE ID:	✓BU - 0.01	
SAMPLING DATE:	6/15/2000 14:30	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1.1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.10
ACENAPHTHYLENE	ND	1.10
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.11
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓BU - 0.01	
	6/15/2000 14:30	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.053
BENZO(A)PYRENE	ND	0.11
BENZO(B)FLUORANTHENE	ND	0.11
BENZO(G,H,I)PERYLENE	ND	0.11
BENZO(K)FLUORANTHENE	ND	0.053
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.053
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.11
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.11
FLUORENE	ND	0.11
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.11
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.53
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.053
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.053
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

DL- Method detection limit

NA - Not analyzed

ND - Not detected

B - Indicates sample was detected in lab blank as well as in the sample

J - Indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit

o - sample not recieved at contract laboratory at 4 degress celsius

PAR - Paragon Laboratory

S - Analytical Technologies Inc. Laboratory

✓-Fire Related

SAMPLE ID:	✓PA - 8.9	
SAMPLING DATE:	6/15/2000 15:20	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.00
ACENAPHTHYLENE	ND	1.00
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.10
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓PA - 8.9	
	6/15/2000 15:20	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.051
BENZO(A)PYRENE	ND	0.10
BENZO(B)FLUORANTHENE	ND	0.10
BENZO(G,H,I)PERYLENE	ND	0.10
BENZO(K)FLUORANTHENE	ND	0.051
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.051
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.10
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.10
FLUORENE	ND	0.10
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.10
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.51
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.051
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.051
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

SAMPLE ID:	✓PA - 6.7	
SAMPLING DATE:	6/29/2000 8:30	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	NA	-
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	0.14[J]	1.40
ACENAPHTHYLENE	ND	1.40
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.14
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓PA - 6.7	
	6/29/2000 8:30	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.071
BENZO(A)PYRENE	ND	0.14
BENZO(B)FLUORANTHENE	ND	0.14
BENZO(G,H,I)PERYLENE	ND	0.14
BENZO(K)FLUORANTHENE	ND	0.071
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.071
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.14
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.14
FLUORENE	ND	0.14
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.14
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	NA	-
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.071[J]
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.071
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

SAMPLE ID:	✓PA - 10.6	
SAMPLING DATE:	6/29/2000 11:10	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	NA	-
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.00
ACENAPHTHYLENE	ND	1.00
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.10
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓PA - 10.6	
	6/29/2000 11:10	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.051
BENZO(A)PYRENE	ND	0.10
BENZO(B)FLUORANTHENE	ND	0.10
BENZO(G,H,I)PERYLENE	ND	0.10
BENZO(K)FLUORANTHENE	ND	0.051
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.051
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.10
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.10
FLUORENE	ND	0.10
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.10
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	NA	-
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.051
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.051
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

Table 1h - NMED Hazardous Waste Bureau Surface-Water Quality Results: Dioxins/Furans

SAMPLE ID: ✓PA - 6.7
SAMPLING DATE: 06/29/2000 8:30
LAB: PAR

Congener	WHO-TEF	Concentration pg/g (ppt)	TEQcalc	DL	TEQcalc
PCDDs					
2,3,7,8-TCDD	1	ND	0	1.52	0.76
1,2,3,7,8-PeCDD	1	ND	0	2.11	1.055
1,2,3,4,7,8-HxCDD	0.1	ND	0	2.89	0.1445
1,2,3,6,7,8-HxCDD	0.1	ND	0	3.43	0.1715
1,2,3,7,8,9-HxCDD	0.1	ND	0	2.96	0.148
1,2,3,4,6,7,8-HpCDD	0.01	8.82	0.0882		FALSE
OCDD	0.0001	89.5	0.00895		FALSE
PCDFs					
2,3,7,8-TCDF	0.1	ND	0	1.05	0.0525
1,2,3,7,8-PeCDF	0.05	ND	0	1.45	0.03625
2,3,4,7,8-PeCDF	0.5	ND	0	1.44	0.36
1,2,3,4,7,8-HxCDF	0.1	ND	0	1.59	0.0795
1,2,3,6,7,8-HxCDF	0.1	ND	0	1.61	0.0805
1,2,3,7,8,9-HxCDF	0.1	ND	0	1.94	0.097
2,3,4,6,7,8-HxCDF	0.1	ND	0	2.72	0.136
1,2,3,4,6,7,8-HpCDF	0.01	ND	0	4.52	0.0226
1,2,3,4,7,8,9-HpCDF	0.01	ND	0	6.54	0.0327
OCDF	0.0001	11.9	0.00119		FALSE
		TEQ Dioxin/Furan Minimum*	0.09834	pg/g (ppt)	3.17605
		TEQ Dioxin/Furan Maximum**	3.27439	pg/g (ppt)	
Non-ortho-PCBs					
3,3,4,4-Tetrachlorobiphenyl (77)	0.0001		0.0001		FALSE
3,4,4,5-Tetrachlorobiphenyl (81)	0.0001		0.0001		FALSE
3,3,4,4,5-Pentachlorobiphenyl (126)	0.1		0.1		FALSE
3,3,4,4,5,5-Hexachlorobiphenyl (169)	0.01		0.01		FALSE
Mono-ortho-PCBs					
2,3,3,4,4-Pentachlorobiphenyl (105)	0.0001		0.0001		FALSE
2,3,4,4,5-Pentachlorobiphenyl (114)	0.0005		0.0005		FALSE
2,3,4,4,5-Pentachlorobiphenyl (118)	0.0001		0.0001		FALSE
2,3,4,4,5-Pentachlorobiphenyl (123)	0.0001		0.0001		FALSE
2,3,3,4,4,5-Hexachlorobiphenyl (156)	0.0005		0.0005		FALSE
2,3,3,4,4,5-Hexachlorobiphenyl (157)	0.0005		0.0005		FALSE
2,3,4,4,5,5-Hexachlorobiphenyl (167)	0.00001		0.00001		FALSE
2,3,3,4,4,5,5-Heptachlorobiphenyl (189)	0.0001		0.0001		FALSE
		TEQ (PCBS) Minimum*	0.11211		0
		TEQ (PCBS) Maximum**	0.11211		
		Total TEQ (Dioxin/Furan/PCB) Minimum*	0.21045		
		Total TEQ (Dioxin/Furan/PCB) Maximum**	3.3865		

SAMPLE ID: ✓PA - 6.7DP
SAMPLING DATE: 06/29/2000 8:30
LAB: PAR

Congener	WHO-TEF	Concentration pg/g (ppt)	TEQcalc	DL	TEQcalc
PCDDs					
2,3,7,8-TCDD	1	ND	0	3.51	1.755
1,2,3,7,8-PeCDD	1	ND	0	4.37	2.185
1,2,3,4,7,8-HxCDD	0.1	ND	0	5.21	0.2605
1,2,3,6,7,8-HxCDD	0.1	ND	0	6.06	0.303
1,2,3,7,8,9-HxCDD	0.1	ND	0	5.28	0.264
1,2,3,4,6,7,8-HpCDD	0.01	ND	0	15.40	0.077
OCDD	0.0001	121	0.0121		FALSE
PCDFs					
2,3,7,8-TCDF	0.1	ND	0	1.85	0.0925
1,2,3,7,8-PeCDF	0.05	ND	0	1.72	0.043
2,3,4,7,8-PeCDF	0.5	ND	0	1.81	0.4525
1,2,3,4,7,8-HxCDF	0.1	ND	0	2.27	0.1135
1,2,3,6,7,8-HxCDF	0.1	ND	0	2.11	0.1055
1,2,3,7,8,9-HxCDF	0.1	ND	0	2.53	0.1265
2,3,4,6,7,8-HxCDF	0.1	ND	0	3.58	0.179
1,2,3,4,6,7,8-HpCDF	0.01	ND	0	3.79	0.01895
1,2,3,4,7,8,9-HpCDF	0.01	ND	0	5.29	0.02645
OCDF	0.0001	ND	0	17.80	0.00089
		TEQ Dioxin/Furan Minimum*	0.0121	pg/g (ppt)	6.00329
		TEQ Dioxin/Furan Maximum**	6.01539	pg/g (ppt)	
Non-ortho-PCBs					
3,3,4,4-Tetrachlorobiphenyl (77)	0.0001		0.0001		FALSE
3,4,4,5-Tetrachlorobiphenyl (81)	0.0001		0.0001		FALSE
3,3,4,4,5-Pentachlorobiphenyl (126)	0.1		0.1		FALSE
3,3,4,4,5,5-Hexachlorobiphenyl (169)	0.01		0.01		FALSE
Mono-ortho-PCBs					
2,3,3,4,4-Pentachlorobiphenyl (105)	0.0001		0.0001		FALSE
2,3,4,4,5-Pentachlorobiphenyl (114)	0.0005		0.0005		FALSE
2,3,4,4,5-Pentachlorobiphenyl (118)	0.0001		0.0001		FALSE
2,3,4,4,5-Pentachlorobiphenyl (123)	0.0001		0.0001		FALSE
2,3,3,4,4,5-Hexachlorobiphenyl (156)	0.0005		0.0005		FALSE
2,3,3,4,4,5-Hexachlorobiphenyl (157)	0.0005		0.0005		FALSE
2,3,4,4,5,5-Hexachlorobiphenyl (167)	0.00001		0.00001		FALSE
2,3,3,4,4,5,5-Heptachlorobiphenyl (189)	0.0001		0.0001		FALSE
		TEQ (PCBS) Minimum*	0.11211		0
		TEQ (PCBS) Maximum**	0.11211		
		Total TEQ (Dioxin/Furan/PCB) Minimum*	0.12421		
		Total TEQ (Dioxin/Furan/PCB) Maximum**	6.1275		

DL - Method detection limit
NA - Not analyzed
ND - Not detected
B - Indicates sample was detected in lab blank as well as in the sample
J - Indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit
0 - sample not recieved at contract laboratory at 4 degrees celsius
PAR - Paragon Laboratory
PIN - Pinnacle Laboratory
DP - Duplicate
* Toxicity Equevalent Quotient (TEQ) minimum is the sum of the products of all Dioxin/Furan and/or PCB congener detections multiplied by each one's respective Toxic Equivalency Factor (TEF)
** Toxicity Equevalent Quotient (TEQ) maximum is the sum of the products of all Dioxin/Furan and/or PCB Congener detections multiplied by each one's respective Toxic Equivalency Factor (TEF) PLUS the sum of all Non-Detects (NDs) (1/2 each respective detection limit times the respective TEF)
✓-Fire Related

SAMPLE ID: ✓PA - 10.5
SAMPLING DATE: 06/29/2000 11:10
LAB: PAR

Congener	WHO-TEF	Concentration pg/g (ppt)	TEQcalc	DL	TEQcalc
PCDDs					
2,3,7,8-TCDD	1	ND	0	0.891	0.4455
1,2,3,7,8-PeCDD	1	ND	0	1.05	0.525
1,2,3,4,7,8-HxCDD	0.1	ND	0	1.85	0.0925
1,2,3,6,7,8-HxCDD	0.1	ND	0	2.13	0.1065
1,2,3,7,8,9-HxCDD	0.1	ND	0	1.87	0.0935
1,2,3,4,6,7,8-HpCDD	0.01	ND	0	1.25	0.00625
OCDD	0.0001	7.35	0.000735		FALSE
PCDFs					
2,3,7,8-TCDF	0.1	ND	0	0.528	0.0264
1,2,3,7,8-PeCDF	0.05	ND	0	1.12	0.028
2,3,4,7,8-PeCDF	0.5	ND	0	1.11	0.2775
1,2,3,4,7,8-HxCDF	0.1	ND	0	1.03	0.0515
1,2,3,6,7,8-HxCDF	0.1	ND	0	1.01	0.0505
1,2,3,7,8,9-HxCDF	0.1	ND	0	1.18	0.059
2,3,4,6,7,8-HxCDF	0.1	ND	0	1.69	0.0845
1,2,3,4,6,7,8-HpCDF	0.01	ND	0	0.896	0.00448
1,2,3,4,7,8,9-HpCDF	0.01	ND	0	1.19	0.00595
OCDF	0.0001	ND	0	5.90	0.000295
		TEQ Dioxin/Furan Minimum*	0.000735	pg/g (ppt)	1.857375
		TEQ Dioxin/Furan Maximum**	1.85811	pg/g (ppt)	
Non-ortho-PCBs					
3,3,4,4-Tetrachlorobiphenyl (77)	0.0001		0.0001		FALSE
3,4,4,5-Tetrachlorobiphenyl (81)	0.0001		0.0001		FALSE
3,3,4,4,5-Pentachlorobiphenyl (126)	0.1		0.1		FALSE
3,3,4,4,5,5-Hexachlorobiphenyl (169)	0.01		0.01		FALSE
Mono-ortho-PCBs					
2,3,3,4,4-Pentachlorobiphenyl (105)	0.0001		0.0001		FALSE
2,3,4,4,5-Pentachlorobiphenyl (114)	0.0005		0.0005		FALSE
2,3,4,4,5-Pentachlorobiphenyl (118)	0.0001		0.0001		FALSE
2,3,4,4,5-Pentachlorobiphenyl (123)	0.0001		0.0001		FALSE
2,3,3,4,4,5-Hexachlorobiphenyl (156)	0.0005		0.0005		FALSE
2,3,3,4,4,5-Hexachlorobiphenyl (157)	0.0005		0.0005		FALSE
2,3,4,4,5,5-Hexachlorobiphenyl (167)	0.00001		0.00001		FALSE
2,3,3,4,4,5,5-Heptachlorobiphenyl (189)	0.0001		0.0001		FALSE
		TEQ (PCBS) Minimum*	0.11211		0
		TEQ (PCBS) Maximum**	0.11211		
	Total TEQ (Dioxin/Furan/PCB) Minimum*		0.112845		
	Total TEQ (Dioxin/Furan/PCB) Maximum**		1.97022		

Table 2a - NMED Hazardous Waste Bureau Ground-Water Quality Results:General Chemistry

STATION ID			Date	Ca (mg/l)	Mg (mg/l)	K (mg/l)	Na (mg/l)	Cl (mg/l)	ClO4 (ug/l)	TOC (mg/l)	Br (mg/l)	I (mg/l)	F (mg/l)	CO3 (mg/l)	HCO3 (mg/l)	TOTAL PHOS (mg/l)	SO4 (mg/l)	NO2-NO3 AS N (mg/l)	TKN (mg/l)	NH3 (mg/l)	TDS (mg/l)	TSS (mg/l)	TOTAL CN (mg/l)	AMMEN. CN	FIELD NO3 AS N (mg/l)	FIELD pH (S.U.)	FIELD SC (uS/cm)	FIELD TDS (ppm)	TEMP. (°C)	dO (mg/l)
WELLS																														
PERCHED AQUIFER																														
ALLUVIUM																														
Los Alamos Canyon																														
✓LAO-2	PAR	F	6/26/2000	16	4.30	4.90	30	30	NA	<1	<0.2	NA	0.89	<5	73	0.24	6.80	1.30	NA	<0.5	240	<20	<0.01		NA	6.98	250	122	11.0	NA
	PAR	T	6/26/2000	16	4.30	5.00	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.98	250	122	11.0	NA
	PIN	F	6/26/2000	NA	NA	NA	NA	NA	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.98	250	122	11.0	NA
✓LAO-3A	PAR	F	6/26/2000	15	3.50	5.40	30	30	NA	<1	<0.2	NA	0.89	<5	84	0.25	6.80	1.10	NA	<0.5	220	<20	<0.01		NA	6.65	241	118	11.2	NA
	PAR	T	6/26/2000	15	3.50	5.40	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.65	241	118	11.2	NA
	PIN	F	6/26/2000	NA	NA	NA	NA	NA	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.65	241	118	11.2	NA
SPRINGS																														
Los Alamos Canyon Watershed																														
✓DP Spring	PAR	F	6/26/2000	18	1.80	9.50	26	30	NA	2	<0.2	NA	0.89	<5	73	0.14	6.8	1.40	NA	1.2	170	<20	<0.01		NA	7.29	242	118	13.3	NA
	PAR	T	6/26/2000	17	1.80	9.50	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	7.29	242	118	13.3	NA
	PIN	F	6/26/2000	NA	NA	NA	NA	NA	<5.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	7.29	242	118	13.3	NA
Pajarito Canyon Watershed																														
✓PC Spring	PAR,PIN	F	6/2/2000	5.9	2.5	2.1	3.8	0.65	<5.00	1.3	<0.2	NA	<0.1	<5	43	<0.05	2.3	0.16	<1.0	<0.1	60	<20	NA		NA	6.92	73	NA	5.0	NA
	PAR	T	6/2/2000	5.9	2.5	2.1	3.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.92	73	NA	5.0	NA
✓Homestead Spring	PAR,PIN	F	6/15/2000	20	6.80	3.30	10	7.5	<5.00	5.6	<0.2	NA	<0.1	<5	77	<0.05	21	0.22	0.7	<0.5	160	<20	NA		NA	6.54	195	95	15.0	NA
	PAR	T	6/15/2000	20	6.90	3.20	9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.54	195	95	15.0	NA
✓Charlie's Spring	PAR,PIN	F	6/15/2000	20	6.80	3.30	10	25	<5.00	6.1	<0.2	NA	0.11	<5	95	0.084	24	0.55	0.8	<0.5	210	100	NA		NA	6.69	292	142	18.6	NA
	PAR	T	6/15/2000	28	8.60	3.60	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.69	292	142	18.6	NA
✓Starmer Spring	PAR,PIN	F	6/15/2000	20	6.80	3.30	10	12	<5.00	6.8	<0.2	NA	<0.1	<5	97	0.064	24	0.23	<0.5	<0.5	190	<20	NA		NA	6.78	254	124	19.0	NA
	PAR	T	6/15/2000	27	8.80	3.80	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.78	254	124	19.0	NA
✓Bulldog Spring	PAR,PIN	F	6/15/2000	19	4.90	3.10	21	17	<5.00	1.4	<0.2	NA	0.30	<5	82	0.097	13	1.00	0.8	<0.5	180	<20	NA		NA	7.47	231	113	21.6	NA
	PAR	T	6/15/2000	19	5.00	3.10	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	7.47	231	113	21.6	NA
✓Kieling SW	PAR,PIN	F	6/15/2000	23	6.10	3.40	20	19	<5.00	3.5	<0.2	NA	0.19	<5	88	0.11	17	0.99	0.6	<0.5	190	<20	NA		NA	6.87	250	123	22.3	NA
	PAR	T	6/15/2000	23	6.20	3.40	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	6.87	250	123	22.3	NA
TA - 18	PIN	F	8/4/2000	19	5.30	6.60	15	18	<5.00	5.1	<0.5	NA	0.44	<2	40	2.85	38	<0.05	1.28	0.12	166	420	<0.005		NA	6.89	171	79	19.6	NA

All nonmetals and anion inorganic data derived from non-filtered samples

1 - sample not recieved at contract laboratory at 4 degrees celcius

PAR - Paragon Laboratory

PIN - Pinnacle Laboratory

TKN - Total kjeldahl nitrogen

Temperature may not represent true ground-water temperature due to low-flow conditions

** - LANL's ER or ES field data

*** - Low temperature due to sampling through piping and filter apparatus

TDS - Total dissolved solids

TSS - Total suspended solids

SC - Specific conductance

NA - Not analyzed or not available

T - Totals

F - Filtered (dissolved)

^^^ - Negative result detection or less than the instrument detection limit

§ - Holding Times Broken

@ - The serial dilution indicates possible chemical or physical interference(s).

1 - Prepared and analyzed past the sample hold time or out of hold time

D - Compounds identified in an analysis at a secondary dilution factor

N - Matrix spike recovery outside the acceptance limits A post-digestion spike was performed to evaluate matrix effect.

† - Sample concentration is too low for reliable analysis

^ - Questionable

✓-Fire Related

(a)Sampled by LANL

Table 2b - NMED Hazardous Waste Bureau Ground-Water Quality Results:Dissolved and Total Metals

STATION ID			Date	Ag (mg/L)	Al (mg/L)	As (mg/L)	B (mg/L)	Ba (mg/L)	Be (mg/L)	Cd (mg/L)	Cr (mg/L)	Co (mg/L)	Cu (mg/L)	Fe (mg/L)	Hg (mg/L)	Li (mg/L)	Mn (mg/L)	Mo (mg/L)	Ni (mg/L)	Pb (mg/L)	Sb (mg/L)	Se (mg/L)	Si (mg/L)	Sn (mg/L)	Sr (mg/L)	Tl (mg/L)	V (mg/L)	Zn (mg/L)
WELLS																												
PERCHED AQUIFER (ALLUVIUM)																												
Los Alamos Canyon																												
✓LAO - 2	PAR	F	6/26/2000	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.21	<0.0002	0.039	<0.01	NA	<0.02	<0.003	<0.02	<0.005	26.0	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/26/2000	<0.01	0.34	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.29	<0.0002	0.053	<0.01	NA	<0.02	<0.003	<0.02	<0.005	26.0	NA	NA	<0.01	<0.01	<0.02
✓LAO - 3A	PAR	F	6/26/2000	<0.01	0.28	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.26	<0.0002	0.039	<0.01	NA	<0.02	<0.003	<0.02	<0.005	8.6	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/26/2000	<0.01	0.33	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.28	<0.0002	0.039	<0.01	NA	<0.02	<0.003	<0.02	<0.005	26.0	NA	NA	<0.01	<0.01	<0.02
SPRINGS																												
Los Alamos Canyon Watershed																												
✓DP Spring	PAR	F	6/26/2000	<0.01	<0.2	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.19	<0.0002	0.011	<0.01	NA	<0.02	<0.003	<0.02	<0.005	8.6	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/26/2000	<0.01	0.24	<0.01	<0.1	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.18	<0.0002	0.01	<0.01	NA	<0.02	<0.003	<0.02	<0.005	8.6	NA	NA	<0.01	<0.01	<0.02
Pajarito Canyon Watershed																												
✓PC Spring	PAR	F	5/2/2000	<0.01	NA	<0.01	<0.1	<0.1	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	<0.01**	NA	NA	<0.003	NA	<0.005	19	NA	0.06	NA	NA	NA
	PAR	T	5/2/2000	<0.01	NA	<0.01	<0.1	<0.1	NA	<0.005	<0.01	NA	NA	NA	<0.0002	<0.01	<0.01**	NA	NA	0.0057	NA	<0.005	18	NA	0.06	NA	NA	NA
✓Homestead Spring	PAR	F	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.12	<0.0002	<0.01	<0.01	NA	<0.02	<0.003	<0.02	<0.005	15	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	NA	<0.01	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓Charlie's Spring	PAR	F	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.12	<0.0002	<0.01	<0.01	NA	<0.02	<0.003	<0.02	<0.005	15	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	NA	<0.01	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓Starmer Spring	PAR	F	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.12	<0.0002	<0.01	<0.01	NA	<0.02	<0.003	<0.02	<0.005	15	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.11	<0.0002	NA	<0.01	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓Bulldog Spring	PAR	F	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	<0.01	<0.01	NA	<0.02	<0.003	<0.02	<0.005	23	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	0.19	<0.0002	NA	<0.01	NA	<0.02	<0.003	0.003	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
✓Kieling SW	PAR	F	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	<0.01	<0.01	NA	<0.02	<0.003	<0.02	<0.005	18	NA	NA	<0.01	<0.01	<0.02
	PAR	T	6/15/2000	<0.01	<0.2	<0.01	NA	<0.1	<0.005	<0.005	<0.01	<0.01	<0.01	<0.1	<0.0002	NA	<0.01	NA	<0.02	<0.003	<0.02	<0.005	NA	NA	NA	<0.01	<0.01	<0.02
TA - 18	PIN	F	8/4/2000	<0.01	2.7	<0.003	NA	0.102	<0.0005	<0.0005	<0.02	<0.01	0.012	14.2	<0.0002	<0.1	0.577	<0.03	<0.02	<0.002	<0.003	<0.003	12.5	<0.05	0.92	<0.001	<0.02	<0.01

DP - Duplicate

PAR - Paragon Laboratory

PIN - Pinnacle Laboratory

NA - Not analyzed or not available

T - Totals

F - Filtered (dissolved)

^ - Duplicate precision not within control limits.

N - Matrix spike recovery outside the acceptance limits. A post-digestion spike was performed to evaluate matrix effect.

M - Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate.

B - Detected in method blank.

† - Serial dilution results suggest possible physical or chemical interference(s).

§ - Holding Times Broken

ND - Not Detected

✓-Fire Related

** Samples received at 17°C

Table 2c - NMED Hazardous Waste Bureau Ground-Water Quality Results:Radionuclides

STATION ID			Date	H3		90Sr		228Th		230Th		232Th		U		234U		235U		238U		228Ac		238Pu		239/240 Pu	
				pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	ug/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL	pCi/L	UNC/DL
WELLS																											
PERCHED AQUIFER																											
ALL UNUM																											
Los Alamos Canyon																											
✓LAO - 2	PAR	T	6/26/2000	118.14	19.16/9.58	7	1.4/0.42	NA	-	NA	-	NA	-	NA	-	0.26	0.10/0.080	0.10	0.067/0.077	0.125	0.069/0.061	NA	-	0.0074	0.0061/0.013	0.032	0.013/0.0098
	PAR	F	6/26/2000	NA	-	8.1	1.5/0.42	NA	-	NA	-	NA	-	NA	-	0.11	0.025/0.012	0.0101	0.0080/0.011	0.046	0.015/0.0074	NA	-	0.0069	0.0071/0.011	0.0129	0.0072/0.0027
✓LAO - 3A	PAR	T	6/26/2000	137.30	217.12/108.56	24.5	4.5/0.40	NA	-	NA	-	NA	-	NA	-	0.15	0.036/0.018	0.032	0.017/0.019	0.11	0.030/0.016	NA	-	0.0073	0.0059/0.0033	0.021	0.011/0.0099
	PAR	F	6/26/2000	NA	-	26.7	4.9/0.44	NA	-	NA	-	NA	-	NA	-	0.105	0.028/0.018	0.033	0.015/0.015	0.083	0.024/0.013	NA	-	0.0097	0.0076/0.0089	0.018	0.010/0.0089
SPRINGS																											
Los Alamos Canyon Watershed																											
✓DP Spring	PAR	T	6/26/2000	217.12	25.54/12.77	57	10.0/0.41	NA	-	NA	-	NA	-	NA	-	0.331	0.056/0.012	0.034	0.014/0.012	0.049	0.017/0.013	NA	-	0.0196	0.0096/0.0076	0.022	0.010/0.0095
	PAR	F	6/26/2000	NA	-	57	10.0/0.43	NA	-	NA	-	NA	-	NA	-	0.255	0.045/0.017	0.025	0.012/0.012	0.045	0.015/0.0074	NA	-	-0.001	0.0043/0.010	0.0078	0.0077/0.012
Pajarito Canyon Watershed																											
✓PC Spring	PAR	T	5/2/2000	39.59	2.6/1.3	NA	-	NA	-	NA	-	NA	-	0.09[J]	0.01/0.20	<0.025	0.034/0.081	<0.014	0.024/0.045	<0.022	0.029/0.045	NA	-	NA	-	NA	-
✓Homestead Spring	PAR	T	6/15/2000	40.55	2.6/1.3	NA	-	NA	-	NA	-	NA	-	0.27	0.04/0.20	<0.045	0.047/0.073	<0.007	0.025/0.049	<0.025	0.032/0.049	NA	-	NA	-	NA	-
✓Charlie's Spring	PAR	T	6/15/2000	59.39	3.8/1.9	NA	-	NA	-	NA	-	NA	-	0.87	0.12/0.20	0.340	0.13/0.092	<0.027	0.040/0.076	0.24	0.10/0.082	NA	-	NA	-	NA	-
✓Starmer Spring	PAR	T	6/15/2000	46.62	3.2/1.6	NA	-	NA	-	NA	-	NA	-	1.05	0.14/0.40	0.38	0.14/0.085	<0.019	0.043/0.055	0.22	0.10/0.072	NA	-	NA	-	NA	-
✓Bulldog Spring	PAR	T	6/15/2000	91.00	5.8/2.9	NA	-	NA	-	NA	-	NA	-	0.63	0.09/0.20	0.28	0.12/0.84	<0.032	0.046/0.088	0.119	0.077/0.094	NA	-	NA	-	NA	-
✓Kieling SW	PAR	T	6/15/2000	113.00	7.6/3.8	NA	-	NA	-	NA	-	NA	-	1.05	0.14/0.20	0.49	0.15/0.069	<0.012	0.026/0.056	0.36	0.12/0.89	NA	-	NA	-	NA	-
✓TA-18	PAR	T	8/4/2000	89.08***	5.74/2.87	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-

PAR - Paragon Laboratory

UNC-Uncertainties (2 Sigma)

RL - Reporting Limit

NA - Not analyzed or not available

BLD-Below detection limit.

* Preserved prior to filtration.

** Preserved after filtration.

f - See flags

[J] - Result is less than the sample specific minimum detectable activity.

[illegible]ult is less than requested MDC. Greater than sample specific MDC

[illegible]mated value; result between Method Detection Limit and Reporting Limit.

DP - Duplicate

‡ - Nonfiltered, nonacidified

SC-SPECIFIC CONDUCTANCE

*-METAL RESULTS FROM A NON-FILTERED SAMPLE &REPRESENTS TOTAL METALS

✓-Fire Related

r - RERUN in progress

*** - Average of duplicate runs

Table 2c - NMED Hazardous Waste Bureau Ground-Water Quality

STATION ID			Date	241Pu (pCi/L)	UNC/DL	241Am (pCi/L)	UNC/DL	237Np (pCi/L)	UNC/DL	226Ra (pCi/L)	UNC/DL	228Ra (pCi/L)	UNC/DL	242Cm (pCi/L)	UNC/DL	244Cm (pCi/L)	UNC/DL	246Cm (pCi/L)	UNC/DL	99Tc (pCi/L)	UNC/DL	Gross Alpha (pCi/L)	UNC/DL	Gross Beta (pCi/L)	UNC/DL
WELLS																									
PERCHED AQUIFER																									
(ALLUVIUM)																									
Los Alamos Canyon																									
✓LAO - 2	PAR	T	6/26/2000	NA	-	0.011	0.010/0.016	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	0.46	0.95/1.1	22.00	3.2/1.3
	PAR	F	6/26/2000	NA	-	0.021	0.012/0.13	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	0.73	0.58/0.93	22.00	3.2/1.3
✓LAO - 3A	PAR	T	6/26/2000	NA	-	0.011	0.013/0.022	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	0.56	0.58/0.95	59.00	8.2/1.3
	PAR	F	6/26/2000	NA	-	0.010	0.0095/0.010	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	-0.11	0.65/1.2	55.30	7.7/1.4
SPRINGS																									
Los Alamos Canyon Watershed																									
✓DP Spring	PAR	T	6/26/2000	NA	-	0.0127	0.0089/0.012	NA	-	NA	-	NA	-	0.005	0.0049/0.0034	0.0020	0.0027/0.0027	NA	-	NA	-	0.65	0.55/0.91	130.00	18/1.2
	PAR	F	6/26/2000	NA	-	0.0186	0.0091/0.0072	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	1.02	0.61/0.93	130.00	18/1.5
Pajarito Canyon Watershed																									
✓PC Spring	PAR	T	5/2/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓Homestead Spring	PAR	T	6/16/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓Charlie's Spring	PAR	T	6/15/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓Starmer Spring	PAR	T	6/16/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	1.10	0.55/0.78	5.10	1.1/1.3
✓Bulldog Spring	PAR	T	6/15/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	1.00	0.66/1.0	3.29	0.96/1.3
✓Kieling SW	PAR	T	6/16/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
✓TA-18	PAR	T	8/4/2000	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-

PAR - Paragon Laboratory

UNC-Uncertainties (2 Sigma)

RL - Reporting Limit

NA - Not analyzed or not available

BLD-Below detection limit.

* Preserved prior to filtration.

** Preserved after filtration

f - See flags

U - Result is less than the sample specific minimum detectable activity.

esult is less than requested MDC, Greater than sample specific MDC.

mated value, result between Method Detection Limit and Reporting Limit.

D - Duplicate

T - Nonfiltered, nonacidified

SC-SPECIFIC CONDUCTANCE

*-METAL RESULTS FROM A NON-FILTERED SAMPLE &REPRESENTS TOTAL METALS

✓-Fire Related

r - RERUN in progress

*** - Average of duplicate runs

Table 2d - NMED Hazardous Waste Bureau Ground-Water (Springs) Quality Results:Radionuclides (Gamma Spec.)

STATION ID		Date	241Am (pCi/L)	UNC/DL	137Cs (pCi/L)	UNC/DL	60Co (pCi/L)	UNC/DL	212Pb (pCi/L)	UNC/DL	214Pb (pCi/L)	UNC/DL	228Ac (pCi/L)	UNC/DL	208Tl (pCi/L)	UNC/DL	214Bi (pCi/L)	UNC/DL
WELLS																		
DEEP AQUIFER																		
PERCHED AQUIFER																		
(ALLUVIUM)																		
Los Alamos Canyon																		
✓LAO - 2	PAR T	6/26/2000	1.4	6.5/11	-0.3	1.5/2.6	-0.1	1.4/2.4	1.8	2.3/4.1	-6.4	7.3/8.7	6.4	9.2/9.8	-0.2	3.5/3.1	7.7	5.0/9.1
	PAR F	6/26/2000	1	13/23	0.4	2.3/4.0	-0.8	2.7/4.6	-20	120/7.9	-8	13/10	-13	28/16	0	4.2/5.1	-2	12.0/13
✓LAO - 3A	PAR T	6/26/2000	-1	14/24	1	2.1/4.1	0.8	2.8/4.8	12	12/8.7	5	12-Nov	-14	29/19	7	4.9/5.3	-3	13/12
	PAR F	6/26/2000	-53	16/24	-1.1	2.6/4.5	-0.2	2.9/5.1	7	10/9.6	-2	11.0/11	-22	45/19	6.3	3.7/4.6	-25	85/12
SPRINGS																		
Los Alamos Canyon Watershed																		
✓DP Spring	PAR T	6/26/2000	-12	13/22	0.9	2.6/4.3	-0.3	2.9/5.0	5.2	6.7/6.3	1	8.3/10	-13	31/18	5.2	3.8/4.8	-4	14/13
	PAR F	6/26/2000	-5	16/28	0.3	2.8/4.9	0.4	2.6/4.6	2	12.0/11	-22	90/11	5.1	9.2/15	0	2.8/4.9	11	13/11
Pajarito Canyon Watershed																		
✓Starmer Spring	PAR T	6/15/2000	<-6	17/29	<-1.2	3.3/5.6	<-1.3	3.4/5.8	<-20	290/9.6	<-7	23/15	<-20	190/20	<-10	130/6	25	19/14
✓Bulldog Spring	PAR T	6/15/2000	<2	17/28	<-.1	2.6/4.5	<.1	2.7/4.7	16	12.0/10.0	<0	19000/11	<9.9	6.7/19	<0.3	4.9/5.8	<-4	17/13

PAR - Paragon Laboratory

PIN - Pinnacle Laboratories

UNC-UNCERTAINTIES (2 SIGMA)

NA-NOT ANALYZED

BLD-BELOW DETECTION LIMIT

* PRESERVED PRIOR TO FILTRATION

PRESERVED AFTER FILTRATION

f - see flags

ND - NOT DETECTED

✓-Fire Related

Table 2d - NMED Hazardous Waste Bureau Ground-Water (Sp

STATION ID		Date	212Bi (pCi/L)	UNC/DL	22Na (pCi/L)	UNC/DL	235U (pCi/L)	UNC/DL	7Be (pCi/L)	UNC/DL	40K (pCi/L)	UNC/DL	234Th (pCi/L)	UNC/DL
WELLS														
DEEP AQUIFER														
PERCHED AQUIFER														
(ALLUVIUM)														
Los Alamos Canyon														
✓LAO - 2	PAR T	6/26/2000	0	1100/21	0.2	1.5/2.6	0	7.9/14	<-4	25/28	68	53/45	<-3	21/38
	PAR F	6/26/2000	1	19/32	-1.0	2.8/4.8	4	13/23	<4	39/45	<6	40/68	510[TI]	170/81
✓LAO - 3A	PAR T	6/26/2000	16	21/33	1.2	2.7/4.6	-50	680/28	<6	44/50	94	86/87	138[TI]	79/81
	PAR F	6/26/2000	-1	21/35	0.5	3.1/5.3	14	25/29	<0	44/49	92	72/82	123[TI]	96/74
SPRINGS														
Los Alamos Canyon														
Watershed														
✓DP Spring	PAR T	6/26/2000	3	21/35	-1.6	3.0/5.0	-50	530/28	<5	43/49	<46	54/76	230[TI]	120/75
	PAR F	6/26/2000	0	23/39	0.7	2.7/4.6	-30	760/29	<6	46/52	<39	65/79	120[TI]	74/76
Pajarito Canyon														
Watershed														
✓Starmer Spring	PAR T	6/15/2000	<7	24/40	<-0.1	2.7/4.7	<-1	18/31	<15	53/60	97	67/81	<-140	570/80
✓Bulldog Spring	PAR T	6/15/2000	<0	23/38	<1.2	2.9/4.8	<0	220/25	<-5	47/53	<-12	61/83	<66	82/89

PAR - Paragon Laboratory

PIN - Pinnacle Laboratories

UNC-UNCERTAINTIES (2 SIGMA)

NA-NOT ANALYZED

BLD-BELOW DETECTION LIMIT

* PRESERVED PRIOR TO FILTRATION

RESERVED AFTER FILTRATION

f - see flags

ND - NOT DETECTED

✓-Fire Related

Table 2e - NMED Hazardous Waste Bureau Ground Water analytical results: High Explosive Compounds.

SPRINGS

SAMPLE ID:	PC Spring	PAR	Starmer Spring	PAR	Bulldog Spring	PAR	Charlie's Spring	PAR	Homestead Spring	PAR	Kieling SW Spring	PAR	✓Starmer Spring	PAR	✓Bulldog Spring	PAR	TA - 18	PIN
SAMPLING DATE:	5/2/2000		6/15/2000		6/15/2000		6/15/2000		6/15/2000		6/15/2000		11/15/2000		11/15/2000		8/7/2000	
	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL	*RESULT (µg/L)	RL
2-AMINO-4,6-DNT	ND	0.25	ND	0.25	0.2**	0.25	ND	0.25	ND	0.25	0.18**	0.25	ND	0.25	0.11**	0.25	ND	0.4
4-AMINO-2,6-DNT	ND	0.25	ND	0.25	0.36	0.25	ND	0.25	ND	0.25	0.28	0.25	ND	0.25	0.18**	0.25	ND	0.9
OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	ND	1	ND	1	3.80	1	ND	1	ND	1	2.5	1	ND	1	2.10	1	ND	0.2
HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE (RDX)	ND	0.84	ND	0.84	5.50	0.84	ND	0.84	ND	0.84	2.9	0.84	ND	0.84	3.80	0.84	ND	0.2
1,3,5-TRINITROBENZENE (1,3,5-TNB)	ND	0.26	ND	0.26	ND	0.26	ND	0.26	ND	0.26	ND	0.26	ND	0.26	ND	0.26	ND	0.1
1,3-DINITROBENZENE (1,3-DNB)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.2
TETRYL	ND	1	ND	1	0.31**	1	ND	1	ND	1	0.13**	1	ND	1	ND	1	ND	0.6
NITROBENZENE (NB)	ND	1	ND	1	ND	1	ND	1	ND	1	0.089**	1	ND	1	ND	1	ND	0.4
NITROGLYCERIN	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
PENTAERYTHRITOL TETRANITRITE	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-	NA	-
2,4,6-TRINITROTOLUENE (2,4,6-TNT)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.6
2,4-DINITROTOLUENE(2,4-DNT)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.4
2,6-DINITROTOLUENE(2,6-DNT)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.4
o-NITROTOLUENE (2-NT)	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	0.2
p-NITROTOLUENE (4-NT)	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	0.3
m-NITROTOLUENE (3-NT)	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	0.2

NA - Not analyzed or not available

BDL - Below method detection limits

DL - Detection limit (ug/L)

§ - Sample out of hold time

S - Spike outside accepted recovery limits

? - Method detection limit not yet determined.

(A) & (B) - Samples collected at two distinct discharge points

1 - sample not recieved at contract laboratory at 4 degrees celsius

PAR - Paragon Laboratory

PIN - Pinnacle Laboratory

ND - Not Detected

** - estimated value

Table 2f - NMED Hazardous Waste Bureau ground analytical results: Volatile Organic Compounds.

SAMPLE ID:	✓Homestead Spring		✓Charlie's Spring		✓Starmer Spring		✓Bulldog Spring		✓Kieling SW	
SAMPLING DATE:	6/15/2000	PAR	6/15/2000	PAR	6/15/2000	PAR	6/15/2000	PAR	6/15/2000	PAR
UNITS	ug/L	RL	ug/L	RL	ug/L	RL	ug/L	RL	ug/L	RL
PARAMETER										
ACETONE	NA	-	NA	-	NA	-	NA	-	NA	-
ACROLEIN	NA	-	NA	-	NA	-	NA	-	NA	-
ACRYLONITRILE	NA	-	NA	-	NA	-	NA	-	NA	-
BENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
BROMOBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
BROMOCHLOROMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
BROMODICHLOROMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
BROMOFORM	NA	-	NA	-	NA	-	NA	-	NA	-
BROMOMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
2-BUTANONE (MEK)	NA	-	NA	-	NA	-	NA	-	NA	-
n-BUTYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
sec-BUTYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
tert-BUTYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
tert-BUTYL METHYL ETHER (MTBE)	NA	-	NA	-	NA	-	NA	-	NA	-
CARBON DISULFIDE	NA	-	NA	-	NA	-	NA	-	NA	-
CARBON TETRACHLORIDE	NA	-	NA	-	NA	-	NA	-	NA	-
CHLOROBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
CHLORODIBROMOMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
CHLOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
2-CHLOROETHYL VINYL ETHER	NA	-	NA	-	NA	-	NA	-	NA	-
CHLOROFORM	NA	-	NA	-	NA	-	NA	-	NA	-
CHLOROMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
2-CHLOROTOLUENE	NA	-	NA	-	NA	-	NA	-	NA	-
4-CHLOROTOLUENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2-DIBROMO-3-CHLOROPROPANE	NA	-	NA	-	NA	-	NA	-	NA	-
DIBROMOCHLOROMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2-DIBROMOETHANE (EDB)	NA	-	NA	-	NA	-	NA	-	NA	-
DIBROMOMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2-DICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,3-DICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,4-DICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
TRANS-1,4-DICHLORO-2-BUTENE	NA	-	NA	-	NA	-	NA	-	NA	-
DICHLORODIFLUOROMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1-DICHLOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2-DICHLOROETHANE (EDC)	NA	-	NA	-	NA	-	NA	-	NA	-
1,1-DICHLOROETHENE	NA	-	NA	-	NA	-	NA	-	NA	-
CIS--1,2-DICHLOROETHENE	NA	-	NA	-	NA	-	NA	-	NA	-
TRANS--1,2-DICHLOROETHENE	NA	-	NA	-	NA	-	NA	-	NA	-
TRANS--1,2-DICHLOROETHYLENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2-DICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,3-DICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-	NA	-
CIS--1,3-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-	NA	-
2,2-DICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-	NA	-
2,2-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-	NA	-
TRANS--1,3-DICHLOROPROPENE	NA	-	NA	-	NA	-	NA	-	NA	-
ETHYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
2-HEXANONE	NA	-	NA	-	NA	-	NA	-	NA	-
HEXACHLOROBUTADIENE	NA	-	NA	-	NA	-	NA	-	NA	-
IODOMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
ISOPROPYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
p-ISOPROPYLTOLUENE	NA	-	NA	-	NA	-	NA	-	NA	-
METHYL-t-BUTYL ETHER	NA	-	NA	-	NA	-	NA	-	NA	-
4-METHYL-2-PENTANONE	NA	-	NA	-	NA	-	NA	-	NA	-
1-METHYLNAPHTHALENE	ND	1.00	ND	1.00	ND	1.10	ND	1.00	ND	1.00
2-METHYLNAPHTHALENE	ND	1.00	ND	1.00	ND	1.10	ND	1.00	ND	1.00
4-ISOPROPYLTOLUENE	NA	-	NA	-	NA	-	NA	-	NA	-
METHYLENE CHLORIDE	NA	-	NA	-	NA	-	NA	-	NA	-
NAPHTHALENE	ND	0.51	ND	0.50	ND	0.53	ND	0.50	ND	0.51
n-PROPYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
PROPYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
STYRENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1,1,2-TETRACHLOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1,2,2-TETRACHLOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
TETRACHLOROETHENE	NA	-	NA	-	NA	-	NA	-	NA	-
TETRAHYDROFURAN (THF)	NA	-	NA	-	NA	-	NA	-	NA	-
TOLUENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2,3-TRICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2,4-TRICHLOROBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1,1-TRICHLOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1,2-TRICHLOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
TRICHLOROETHENE	NA	-	NA	-	NA	-	NA	-	NA	-
TRICHLOROFLUOROMETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2,3-TRICHLOROPROPANE	NA	-	NA	-	NA	-	NA	-	NA	-
TRICHLOROTRIFLUOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,1,2-TRICHLORO-2,2,1-TRIFLUOROETHANE	NA	-	NA	-	NA	-	NA	-	NA	-
1,2,4-TRIMETHYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
1,3,5-TRIMETHYLBENZENE	NA	-	NA	-	NA	-	NA	-	NA	-
VINYL ACETATE	NA	-	NA	-	NA	-	NA	-	NA	-
VINYL CHLORIDE	NA	-	NA	-	NA	-	NA	-	NA	-
o-XYLENE	NA	-	NA	-	NA	-	NA	-	NA	-
p- & m-XYLENE	NA	-	NA	-	NA	-	NA	-	NA	-
TOTAL XYLENES	NA	-	NA	-	NA	-	NA	-	NA	-

RL - Reporting limit

NA - Not analyzed

ND - Not detected

B - Indicates sample was detected in lab blank as well as in the sample

J - Indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit

o - sample not received at contract laboratory at 4 degrees celsius - sample not recieved at contract laboratory at 4 degrees celsius

PAR - Paragon Laboratory

✓-Fire Related

Table 2g - NMED Hazardous Waste Bureau ground-water analytical results: Additional Organic Compounds.

SAMPLE ID:	✓Homestead Spring	
SAMPLING DATE:	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.00
ACENAPHTHYLENE	ND	1.00
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.10
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓Homestead Spring	
	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.051
BENZO(A)PYRENE	ND	0.10
BENZO(B)FLUORANTHENE	ND	0.10
BENZO(G,H,I)PERYLENE	ND	0.10
BENZO(K)FLUORANTHENE	ND	0.051
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.051
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.10
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.10
FLUORENE	ND	0.10
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.10
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.51
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.051
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.051
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

DL- Method detection limit

NA - Not analyzed

ND - Not detected

B - Indicates sample was detected in lab blank as well as in the sample

J - Indicates an estimated value for tentatively identified components, or compounds detected and identified but present at a concentration less than the practical quantitation limit

1 [illegible]

2 - Paragon Laboratory

3 - CT&E Laboratory

4 - American Environmental Network Laboratory

5 - Analytical Technologies Inc. Laboratory

6 - Pace Laboratory

7 - SLD laboratory

8 - Lockheed Laboratory

✓-Fire Related

SAMPLE ID:	✓Charlie'sSpring	
SAMPLING DATE:	6/15/2000	PAR
UNITS	ug/L	SL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.00
ACENAPHTHYLENE	ND	1.00
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.10
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓Charlie's Spring	
	6/15/2000	PAR
UNITS	ug/L	SL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.050
BENZO(A)PYRENE	ND	0.10
BENZO(B)FLUORANTHENE	ND	0.10
BENZO(G,H,I)PERYLENE	ND	0.10
BENZO(K)FLUORANTHENE	ND	0.050
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.050
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.10
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.10
FLUORENE	ND	0.10
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.10
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.5
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.050
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.050
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

SAMPLE ID:	✓Starmer Spring	
SAMPLING DATE:	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1.1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.10
ACENAPHTHYLENE	ND	1.10
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.11
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓Starmer Spring	
	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.053
BENZO(A)PYRENE	ND	0.11
BENZO(B)FLUORANTHENE	ND	0.11
BENZO(G,H,I)PERYLENE	ND	0.11
BENZO(K)FLUORANTHENE	ND	0.053
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.053
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.11
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.11
FLUORENE	ND	0.11
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.11
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.53
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.053
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.053
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

SAMPLE ID:	✓Bulldog Spring	
SAMPLING DATE:	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.00
ACENAPHTHYLENE	ND	1.00
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.10
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓Bulldog Spring	
	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.050
BENZO(A)PYRENE	ND	0.10
BENZO(B)FLUORANTHENE	ND	0.10
BENZO(G,H,I)PERYLENE	ND	0.10
BENZO(K)FLUORANTHENE	ND	0.050
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.050
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.10
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.10
FLUORENE	ND	0.10
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.10
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.5
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.050
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.050
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

SAMPLE ID:	✓Kieling SW	
SAMPLING DATE:	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
1,2,4,-TRICHLOROBENZENE	NA	-
1,2,4,5-TETRACHLOROBENZENE	NA	-
1,2-DICHLOROBENZENE	NA	-
1,2-DIPHENYLHYDRAZINE	NA	-
1,3,-DICHLOROBENZENE	NA	-
1,4,-DICHLOROBENZENE	NA	-
1-CHLORONAPTHALENE	NA	-
1-NAPTHYLAMINE	NA	-
2,2,3,3,4,5,6,6-OCTACHLOROBIPHENYL	NA	-
2,2,3,3,4,4,6-HEPTACHLOROBIPHENYL	NA	-
2,2,4,4,5,6-HEXACHLOROBIPHENYL	NA	-
2,2,3,4,6-PENTACHLOROBIPHENYL	NA	-
2,2,4,4-TETRACHLOROBIPHENYL	NA	-
2,3,4,6-TETRACHLOROPHENOL	NA	-
2,4,5-TRICHLOROBIPHENYL	NA	-
2,4,5-TRICHLOROPHENOL	NA	-
2,4,6-TRICHLOROPHENOL	NA	-
2,3-DICHLOROBIPHENYL	NA	-
2,4-DICHLOROPHENOL	NA	-
2,4-DIMETHYLPHENOL	NA	-
2,4-DINITROPHENOL	NA	-
2,4-DINITROTOLUENE	NA	-
2,6-DICHLOROPHENOL	NA	-
2,6-DINITROTOLUENE	NA	-
2-CHLORONAPHTHALENE	NA	-
2-CHLOROBIPHENYL	NA	-
2-CHLOROPHENOL	NA	-
2-METHYLNAPHTHALENE	ND	1
2-METHYLPHENOL	NA	-
2-NAPTHYLAMINE	NA	-
2-NITROANILINE	NA	-
2-NITROPHENOL	NA	-
2-PICOLINE	NA	-
3,3-DICHOLOROBENZIDINE	NA	-
3 & 4 METHYLPHENOL	NA	-
3-METHYLCHOLANTHRENE	NA	-
3-NITROANILINE	NA	-
4,6-DINITRO-2-METHYL PHENOL	NA	-
4-AMINOBIPHENYL	NA	-
4-BROMOPHENYL PHENYL ETHER	NA	-
4-CHLORO-3-METHYLPHENOL	NA	-
4-CHLOROANILINE	NA	-
4-CHLOROPHENYL PHENYL ETHER	NA	-
4-METHYLPHENOL	NA	-
4-NITROANILINE	NA	-
4-NITROPHENOL	NA	-
7,12-DIMETHYLBENZO(A)ANTHRACENE	NA	-
A-,A-DIMETHYLPENETHYLAMINE	NA	-
ACENAPHTHENE	ND	1.00
ACENAPHTHYLENE	ND	1.00
ACETOPHENONE	NA	-
ALACHLOR	NA	-
ALDRINE	NA	-
ALPHA-CHLORDANE	NA	-
ANILINE	NA	-
ANTHRACENE	ND	0.10
AROCLOR 1016	NA	-
AROCLOR 1221	NA	-
AROCLOR 1232	NA	-
AROCLOR 1242	NA	-
AROCLOR 1248	NA	-
AROCLOR 1254	NA	-
AROCLOR 1260	NA	-
ATRAZINE	NA	-
AZOBENZENE	NA	-

	✓Kieling SW	
	6/15/2000	PAR
UNITS	ug/L	RL
PARAMETER		
BENZIDINE	NA	-
BENZO(A)ANTHRACENE	ND	0.051
BENZO(A)PYRENE	ND	0.10
BENZO(B)FLUORANTHENE	ND	0.10
BENZO(G,H,I)PERYLENE	ND	0.10
BENZO(K)FLUORANTHENE	ND	0.051
BENZOIC ACID	NA	-
BENZYL ALCOHOL	NA	-
BIS (2-CHLOROETHOXY) METHANE	NA	-
BIS (2-CHLOROETHYL) ETHER	NA	-
BIS (2-CHLOROISOPROPYL) ETHER	NA	-
BIS(2-ETHYLHEXYL)PHTHALATE	NA	-
BUTYL BENZYL PHTHALATE	NA	-
BUTACHLOR	NA	-
CARBAZOLE	NA	-
CHLORDANE (TOTAL)	NA	-
CHRYSENE	ND	0.051
DI(2 ETHYLHEXYL) ADIPATE	NA	-
DI(2 ETHYLHEXYL) PHTHALATE	NA	-
DI-N-BUTYL PHTHALATE	NA	-
DI-N-OCTYL PHTHALATE	NA	-
DIBENZO(A,H)ANTHRACENE	ND	0.10
DIBENZO(A,J)ACRIDINE	NA	-
DIBENZOFURAN	NA	-
DIELDRIN	NA	-
DIETHYL PHTHALATE	NA	-
DIMETHYL PHTHALATE	NA	-
DIPHENYLAMINE	NA	-
ENDRIN	NA	-
FLUORANTHENE	ND	0.10
FLUORENE	ND	0.10
GAMMA-CHLORDANE	NA	-
HEPTACHLOR	NA	-
HEPTACHLOR EPOXIDE	NA	-
HEXACHLOROBENZENE	NA	-
HEXACHLOROBUTADIENE	NA	-
HEXACHLOROCYCLOPENTADIENE	NA	-
HEXACHLOROETHANE	NA	-
INDENO(1,2,3-CD)PYRENE	ND	0.10
ISOPHORONE	NA	-
LINDANE	NA	-
N-NITROSO-DI-N-PROPYLAMINE	NA	-
N-NITROSODI-N-BUTYLAMINE	NA	-
N-NITROSODIMETHYLAMINE	NA	-
N-NITROSODIPHENYLAMINE	NA	-
N-NITROSOPIPERIDINE	NA	-
NAPHTHALENE	ND	0.51
NITROBENZENE	NA	-
METOLACHLOR	NA	-
METHOXYCHLOR	NA	-
METRIBUZIN	NA	-
P-DIMETHYLAMINOAZOBENZENE	NA	-
PENTACHLOROBENZENE	NA	-
PENTACHLORONITROBENZENE	NA	-
PENTACHLOROPHENOL	NA	-
PHENACETIN	NA	-
PHENANTHRENE	ND	0.051
PHENOL	NA	-
PRONAMIDE	NA	-
PROPACHLOR	NA	-
PYRENE	ND	0.051
PYRIDINE	NA	-
SIMAZINE	NA	-
TOXAPHENE MIXTURE	NA	-
TRANS NONACHLOR	NA	-

EW MEXICO ENVIRONMENT DEPARTMENT

D.O.E. OVERSIGHT BUREAU

HWB's water quality sampling locations, 2000

ate: January, 2001

r: K. Granzow

Drawing: HWB

ate plane coordinate system, New Mexico Central ne. 1927 North American Datum.

gitized from 7.5 Minute quandrangles. Locations dependent on scale and their accuracy may not have en confirmed.

Figure 1