



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 377TH AIR BASE WING (AFMC)

DEC 14 2012

Colonel John C. Kubinec
377 ABW/CC
2000 Wyoming Blvd SE
Kirtland AFB NM 87117-5600

Mr. John Kieling, Manager
RCRA Permits Management Program
Hazardous Waste Bureau (HWB)
New Mexico Environment Department (NMED)
2905 Rodeo Park Road
Santa Fe New Mexico 87505

Dear Mr. Kieling

On 26 September 2012, Kirtland Air Force Base (KAFB) submitted a letter to your office clarifying procedures, schedules and analyses for the nine well described in your 28 June 2012 letter. KAFB is hereby submitting its '*Analytical Results for 9 Additional Groundwater Monitoring Wells KAFB-106201 through KAFB-106209, Bulk Fuels Facility Spill, Solid Waste Management Units ST-105 and SS-111, dated 6 December 2012*' in compliance with the clarified schedule.

If you have any questions or concerns about the well analyses, please contact Mr. L. Wayne Bitner at (505) 853-3484 or at ludie.bitner@kirtland.af.mil or Ms. Victoria R. Martinez at (505) 846-6362 or at victoria.martinez@kirtland.af.mil.

Sincerely

A handwritten signature in blue ink, appearing to read "J.C. Kubinec", is written over the typed name and title.

JOHN C. KUBINEC, Colonel, USAF
Commander

Attachment:

Analytical Results for 9 Additional Groundwater Monitoring Wells KAFB-106201 through KAFB-106209, Bulk Fuels Facility Spill, Solid Waste Management Units ST-105 and SS-111, dated 6 December 2012

cc:

NMED-RPD (Davis), w/out attach
NMED-HWB (Moats, McDonald, Salem, Brandwein), w/ attach

NMED-GWQB (J. Schoeppner), w/ attach

NMED-OGC w/out attach

EPA Region 6 (L. King), w/out attach

AFCEE/CMSE (Mr. Oyelowo), w/out attach

/EXEC (Mr. Urrutia), w/out attach

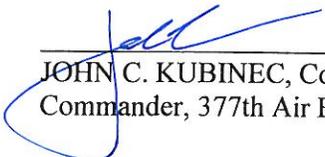
Public Info Repository (Central New Mexico), w/ attach

Administrative Record/Information Repository (AR/IR), w/ attach

File, w/ attach

**40 CFR 270.11
DOCUMENT CERTIFICATION
DECEMBER 2012**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.



JOHN C. KUBINEC, Colonel, USAF
Commander, 377th Air Base Wing

This document has been approved for public release.



KIRTLAND AIR FORCE BASE
377th Air Base Wing Public Affairs

KIRTLAND AIR FORCE BASE ALBUQUERQUE, NEW MEXICO

**Analytical Results for 9 Additional Groundwater
Monitoring Wells**

KAFB-106201 through KAFB-106209

**Bulk Fuels Facility Spill
Solid Waste Management Units ST-106 and SS-111**

December 2012



**377 MSG/CEANR
2050 Wyoming Blvd. SE
Kirtland AFB, New Mexico 87117-5270**



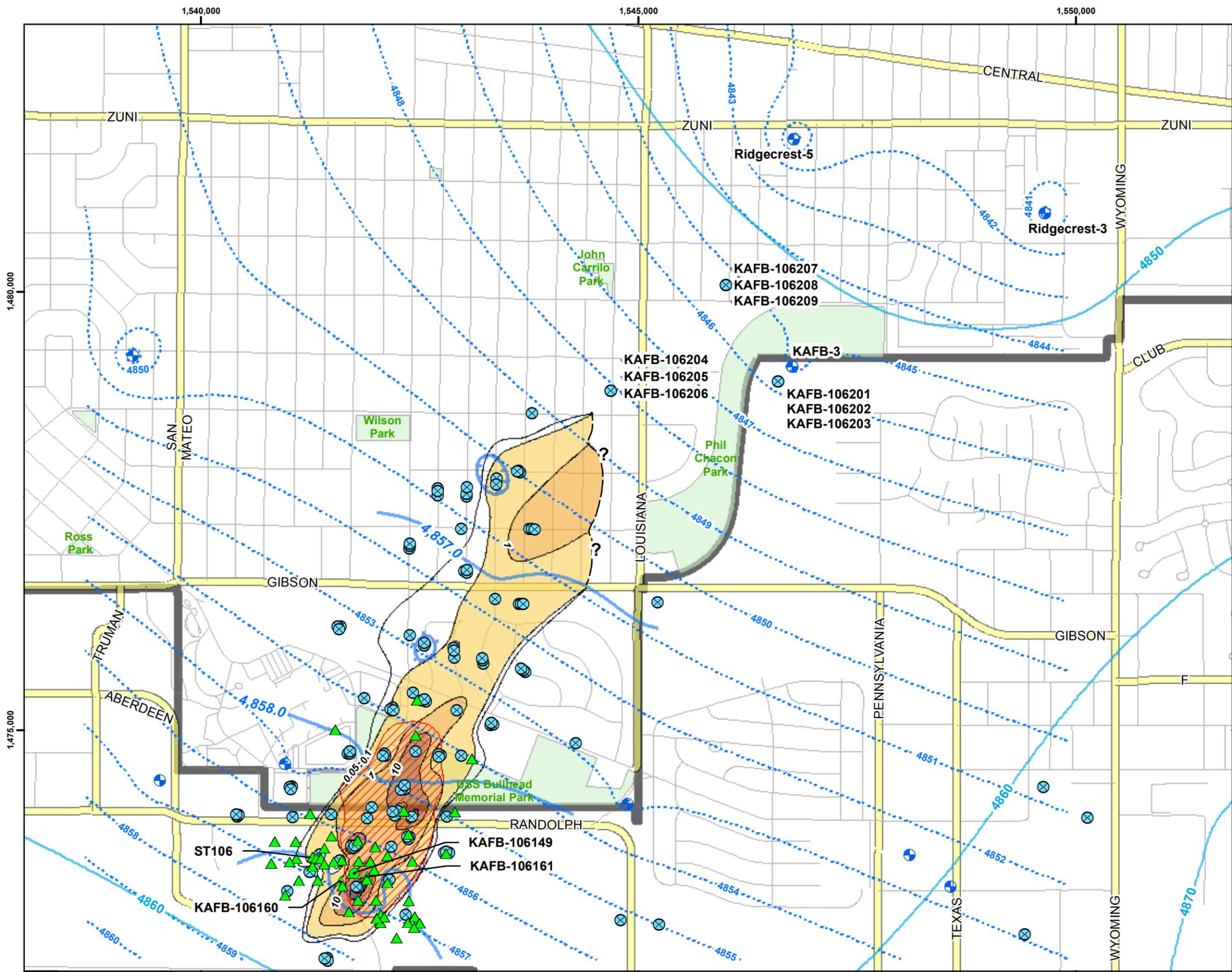
December 6, 2012

**Subject: Analytical Results for 9 Additional Groundwater Monitoring Wells
KAFB-106201 through KAFB-106209
Bulk Fuels Facility Spill, Solid Waste Management Units ST-106 and SS-111
Kirtland Air Force Base, New Mexico**

This letter is being submitted to present the analytical data results from the sampling of the nine additional groundwater monitoring wells, KAFB-106201 through KAFB-106209 (Figure 1). The nine groundwater monitoring wells were drilled and installed starting on July 11, 2012, with the last well (KAFB-106201) completed on October 4, 2012. The wells were developed in accordance with the approved Groundwater Investigation Work Plan (Shaw, 2011). Following well development, slug tests were performed on the wells and dedicated sampling pumps were installed. Details and results on the slug testing will be included in the Fourth Quarter 2012 report to be delivered to the New Mexico Environment Department (NMED) on March 29, 2012.

The nine additional groundwater monitoring wells were sampled in accordance with the Quality Assurance Project Plan (Shaw, 2011) and the Pre-Remedy Monitoring and Soil-Vapor Extraction System Operation and Maintenance Work Plan (Shaw, 2011). Wells KAFB-106205, KAFB-106206, and KAFB-106209 were re-sampled on November 6 and 7, 2012 as requested by the NMED; the samples from the re-sample event were only analyzed for volatile organic compounds (VOCs) and ethylene dibromide (EDB), EPA method 8011. Table 1 presents the analytical results from the nine groundwater monitoring wells, including the re-sample results.

The data from the nine new groundwater monitoring wells will also be included in the Fourth Quarter 2012 Report. The nine wells are now incorporated into the monitoring program and will be sampled as part of the regular groundwater monitoring program in First Quarter 2013.



Legend

- Pneu Log
- Monitor Well
- SVE Monitor Well
- Water Supply Well
- SVE Extraction Well
- Proposed Monitor Well
- Groundwater Level Contour (ft msl)
- Groundwater High
- Regional Water Level Contour 2002 (ft)
- Groundwater Model Water Level Contour (ft)
- EDB Concentration Contour (ug/L)
- NAPL Area

EDB Concentration (ug/L)

	0.014 - 0.1
	0.11 - 1
	1.1 - 10
	11 - 100
	110 - 310

- Major Road
- Road
- Park
- Installation Boundary

SITE LOCATION

Revision Date: 12/02/12

0 600 1,200 2,400

Feet

1 inch = 1,200 feet

Projection : NAD83 State Plane New Mexico Central FIPS3002 Feet

BULK FUELS FACILITY
KIRTLAND AIR FORCE BASE, NEW MEXICO

FIGURE 1

GROUNDWATER MONITORING WELLS

Table 1 Groundwater Analytical Results
Nine Additional Groundwater Monitoring Wells

Chemical Class & Analytical Method ^a	Parameter	EPA MCLs ^{b,d}	NMED Approved Background ^c	NMED Ground Water Protection Standards (Sec. 20.6.2.3103)b GWPS	KAFB-106201			KAFB-106202			KAFB-106203			KAFB-106203			KAFB-106204			KAFB-106205			KAFB-106205 ^e			KAFB-106206		
					Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL
SVOCs (µg/L) Method 8270C	1,1-BIPHENYL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	1,2-DIPHENYLHYDRAZINE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	1-METHYL NAPHTHALENE	30	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2,4,5-TRICHLOROPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2,4,6-TRICHLOROPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2,4-DICHLOROPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2,4-DIMETHYLPHENOL	N/A	N/A	N/A	ND	U	19.6	ND	U	19.2	ND	U	20	ND	U	19.6	ND	U	20	ND	U	19.2	N/A	N/A	N/A	ND	U	19.6
	2,4-DINITROPHENOL	N/A	N/A	N/A	ND	U	49	ND	U	48.1	ND	U	50	ND	U	49	ND	U	50	ND	U	48.1	N/A	N/A	N/A	ND	U	49
	2,4-DINITROTOLUENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2,6-DINITROTOLUENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2-CHLORONAPHTHALENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2-CHLOROPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2-METHYLNAPHTHALENE	30	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2-METHYLPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	2-NITROANILINE	N/A	N/A	N/A	ND	U	19.6	ND	U	19.2	ND	U	20	ND	U	19.6	ND	U	20	ND	U	19.2	N/A	N/A	N/A	ND	U	19.6
	2-NITROPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	3,3'-DICHLOROENZIDINE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	3-METHYLPHENOL AND 4-METHYLPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	3-NITROANILINE	N/A	N/A	N/A	ND	U	19.6	ND	U	19.2	ND	U	20	ND	U	19.6	ND	U	20	ND	U	19.2	N/A	N/A	N/A	ND	U	19.6
	4,6-DINITRO-2-METHYLPHENOL	N/A	N/A	N/A	ND	U	19.6	ND	U	19.2	ND	U	20	ND	U	19.6	ND	U	20	ND	U	19.2	N/A	N/A	N/A	ND	U	19.6
	4-BROMOPHENYL PHENYL ETHER	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	4-CHLORO-3-METHYLPHENOL	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	4-CHLOROANILINE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	4-CHLOROPHENYL PHENYL ETHER	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	4-NITROANILINE	N/A	N/A	N/A	ND	U	19.6	ND	U	19.2	ND	U	20	ND	U	19.6	ND	U	20	ND	U	19.2	N/A	N/A	N/A	ND	U	19.6
	4-NITROPHENOL	N/A	N/A	N/A	ND	U	19.6	ND	U	19.2	ND	U	20	ND	U	19.6	ND	U	20	ND	U	19.2	N/A	N/A	N/A	ND	U	19.6
	ACENAPHTHENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	ACENAPHTHYLENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	ACETOPHENONE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	ANTHRACENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	ATRAZINE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	BENZALDEHYDE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	BENZIDINE	N/A	N/A	N/A	ND	U	98	ND	U	96.2	ND	U	100	ND	U	98	ND	U	100	ND	U	96.2	N/A	N/A	N/A	ND	U	98
	BENZO(A)ANTHRACENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
	BENZO(A)PYRENE	0.2	N/A	0.7	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9
BENZO(B)FLUORANTHENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BENZO(GH)PERYLENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BENZO(K)FLUORANTHENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BENZOIC ACID	N/A	N/A	N/A	ND	U	98	ND	U	96.2	ND	U	100	ND	U	98	ND	U	100	ND	U	96.2	N/A	N/A	N/A	ND	U	98	
BIS(2-CHLOROETHOXY)METHANE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BIS(2-CHLOROETHYL)ETHER	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BIS(2-CHLOROISOPROPYL)ETHER	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BIS(2-ETHYLHEXYL)PHTHALATE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
BUTYL BENZYL PHTHALATE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
CAPROLACTAM	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
CARBAZOLE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
CHRYSENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
DIBENZO(A,H)ANTHRACENE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
DIBENZOFURAN	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
DIETHYL PHTHALATE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
DIMETHYL PHTHALATE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
DI-N-BUTYL PHTHALATE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A	N/A	N/A	ND	U	4.9	
DI-N-OCTYL PHTHALATE	N/A	N/A	N/A	ND	U	4.9	ND	U	4.81	ND	U	5	ND	U	4.9	ND	U	5	ND	U	4.81	N/A						

Table 1 Groundwater Analytical Results
Nine Additional Groundwater Monitoring Wells

Chemical Class & Analytical Method ^a	Parameter	EPA MCLs ^{b,d}	NMED Approved Background ^c	NMED Ground Water Protection Standards (Sec. 20.6.2.3103) ^b GWPS	KAFB-106201			KAFB-106202			KAFB-106203			KAFB-106204			KAFB-106205			KAFB-106205 ^e			KAFB-106206				
					Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL
PAHs (µg/L) Method 8270C	1-METHYL NAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	2-METHYLNAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ACENAPHTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ACENAPHTHYLENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	BENZO(A)ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	BENZO(A)PYRENE	0.2	N/A	0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	BENZO(B)FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	BENZO(GH)PERYLENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	BENZO(K)FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	CHRYSENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	DIBENZO(A,H)ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	FLUORENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	INDENO(1,2,3-CD)PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	NAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	PHENANTHRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Metals (mg/L) Method 6010B	CALCIUM	N/A	N/A	N/A	75.7	5	82.6	5	39.7	5	41.2	5	138	5	52.2	5	57.2	5	5	5	5	5	5	5	5	5	
	LEAD	0.015	0.01	0.05	ND	U	0.003	ND	U	0.003	ND	U	0.003	ND	U	0.003	ND	U	0.003	ND	U	0.003	N/A	N/A	N/A	ND	
	MAGNESIUM	N/A	N/A	N/A	9.91	5	10.7	5	4.94	J	5	5	17.9	5	6.96	5	7.34	5	N/A	N/A	N/A	N/A	N/A	N/A	7.34	5	
	POTASSIUM	N/A	N/A	N/A	3.49	J	2.86	J	5	2.25	J	5	2.28	J	5	4.45	J	3.04	J	5	N/A	N/A	N/A	N/A	N/A	3.13	J
	SODIUM	N/A	N/A	N/A	36.1	5	39.3	5	20.7	5	21.4	5	44.4	5	31.8	5	33.4	5	N/A	N/A	N/A	N/A	N/A	N/A	33.4	5	
	IRON, DISSOLVED	0.3	N/A	1	ND	U	0.1	ND	U	0.1	ND	U	0.1	ND	U	0.1	ND	U	0.1	N/A	N/A	N/A	N/A	N/A	ND	U	
	MANGANESE, DISSOLVED	0.05	N/A	0.2	0.0268	0.015	0.00941	J	0.015	0.0442	0.015	0.0446	0.015	0.086	0.015	0.0371	0.015	0.0598	0.015	N/A	N/A	N/A	N/A	N/A	0.0598	0.015	
Anions (mg/L) Method E300.0	CHLORIDE	250	N/A	250	58.4	0.5	59.2	0.5	11.1	0.5	11.2	0.5	136	0.5	36	0.5	56.8	0.5	N/A	N/A	N/A	N/A	N/A	N/A	56.8	0.5	
	SULFATE	250	N/A	600	95.3	2.5	124	2.5	30.2	2.5	30.5	2.5	198	2.5	53	2.5	52.9	2.5	N/A	N/A	N/A	N/A	N/A	N/A	52.9	2.5	
	NITROGEN, NITRATE-NITRITE	N/A	4	N/A	1.95	1.5	2.61	1.5	ND	U	1.5	ND	U	1.5	1.01	J	1.19	J	1.5	N/A	N/A	N/A	N/A	N/A	1.19	J	
	AMMONIA (AS N)	N/A	N/A	N/A	0.833	0.3	ND	U	0.3	0.361	0.3	ND	U	0.3	ND	U	ND	U	0.3	N/A	N/A	N/A	N/A	N/A	ND	U	
	SULFIDE, TOTAL	N/A	N/A	N/A	ND	U	3.39	ND	U	3.7	ND	U	3.7	ND	U	3.39	ND	U	3.7	N/A	N/A	N/A	N/A	N/A	ND	U	
Alkalinity (mg/L) Method SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	N/A	N/A	N/A	96.9	1	103	1	105	1	109	1	78.7	1	101	1	92.8	1	N/A	N/A	N/A	N/A	N/A	N/A	92.8	1	
	ALKALINITY, CARBONATE (AS CaCO3)	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1	N/A	N/A	N/A	N/A	N/A	ND	U	
Field Parameters	Temperature (°C)	N/A	N/A	N/A	18.16		18.51		18.38		N/A		18.44		18.93		18.51									19.9	
	pH (S.U.)	N/A	N/A	N/A	7.54		7.66		7.76		N/A		7.57		7.68		7.62									7.7	
	Spec Cond (µS/cm2)	N/A	N/A	N/A	595.8		660.3		329		N/A		1011		448.4		446.5									496.1	
	DO (mg/L)	N/A	N/A	N/A	6.5		NM		NM		N/A		7.86		9.01		9.03									NM	
	ORP (mV)	N/A	N/A	N/A	69		159		186		N/A		175		187		171									208	
	Turbidity (NTU)	N/A	N/A	N/A	0.97		0.61		2.08		N/A		0.73		1.11		0.99									0.53	
	Alkalinity (mg/L as CaCO3)	N/A	N/A	N/A	84		110		102		N/A		88		120		NS									104	

The NMWQCC standard and EPA MCL for m,p-xylene and o-xylene is for total xylenes.
a. EPA analytical methods listed are for the most recent sampling event.
b. The WQCC regulation for PAHs of 30 ug/L is a total of the concentrations of naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.
c. NMED-HWB Approved Background Concentrations, SNL/Kirtland AFB, Chemical Constituents in Ground Water.
d. EPA National Primary Drinking Water Standards - Maximum Contaminant Levels (MCLs), or if more stringent, New Mexico
e. Sample collected to test for gas bubbles. VOC and EDB data only
Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
J = estimated value, concentration is less than RL but greater than laboratory method detection limit (MDL).
J+ = estimated value, concentration is less than RL but greater than laboratory method detection limit (MDL); biased high.
J- = estimated value, concentration is less than RL but greater than laboratory method detection limit (MDL); biased low.
U = Analyte was not detected. The reported numerical value is at or below the RL.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the RL.
N/A = Not applicable or Not available
ND = Not detected
NM = not measured due to equipment malfunction.
NR = Not recorded or reported due to operational error

Table 1 Groundwater Analytical Results
Nine Additional Groundwater Monitoring Wells

Chemical Class & Analytical Method ^a	Parameter	EPA MCLs ^{b,d}	NMED Approved Background ^c	NMED Ground Water Protection Standards (Sec. 20.6.2.3103)b GWPS	KAFB-106206 ^e			KAFB-106207			KAFB-106208			KAFB-106209			KAFB-106209 ^e		
					Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL
EDB (µg/L) Method 8011	1,2-DIBROMOETHANE	0.05	N/A	0.1	ND	U	0.0283	ND	U	0.0279	ND	U	0.0288	ND	U	0.0274	ND	U	0.0278
TPH (µg/L) Method 8015B	DIESEL RANGE ORGANICS	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	392	ND	U	400	ND	U	400	N/A	N/A	N/A
VOCs (µg/L) Method 8260B	GASOLINE RANGE ORGANICS	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	150	ND	U	150	ND	U	150	N/A	N/A	N/A
	1,1,1,2-TETRACHLOROETHANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,1,1-TRICHLOROETHANE	60	N/A	60	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,1,2,2-TETRACHLOROETHANE	10	N/A	10	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,1,2-TRICHLOROETHANE	5	N/A	100	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,1-DICHLOROETHANE	25	N/A	25	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,1-DICHLOROETHENE	5	N/A	5	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,1-DICHLOROPROPENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,2,3-TRICHLOROBENZENE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	1,2,3-TRICHLOROPROPANE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	1,2,4-TRICHLOROBENZENE	70	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	1,2,4-TRIMETHYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,2-DIBROMO-3-CHLOROPROPANE	0.2	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	1,2-DIBROMOETHANE	0.05	N/A	0.1	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,2-DICHLOROBENZENE	600	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,2-DICHLOROETHANE	5	N/A	10	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,2-DICHLOROPROPANE	5	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,3,5-TRIMETHYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,3-DICHLOROBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,3-DICHLOROPROPANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	1,4-DICHLOROBENZENE	75	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	2,2-DICHLOROPROPANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	2-BUTANONE	N/A	N/A	N/A	ND	U	10	ND	U	10	ND	U	10	ND	U	10	ND	U	10
	2-CHLOROTOLUENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	2-HEXANONE	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	ND	U	5	ND	U	5
	4-CHLOROTOLUENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	4-METHYL-2-PENTANONE	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	ND	U	5	ND	U	5
	ACETONE	N/A	N/A	N/A	ND	U	10	ND	U	10	ND	U	10	ND	U	10	ND	U	10
	BENZENE	5	N/A	10	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	BROMOBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	BROMOCHLOROMETHANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	BROMODICHLOROMETHANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	BROMOFORM	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	BROMOMETHANE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	CARBON DISULFIDE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	CARBON TETRACHLORIDE	5	N/A	10	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	CHLOROBENZENE	100	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	CHLOROETHANE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	CHLOROFORM	100	N/A	100	0.32	J	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	CHLOROMETHANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	CIS-1,2-DICHLOROETHENE	70	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	CIS-1,3-DICHLOROPROPENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	DIBROMOCHLOROMETHANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	DIBROMOMETHANE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	DICHLORODIFLUOROMETHANE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	ETHYLBENZENE	700	N/A	750	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	HEXACHLOROBUTADIENE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	ISOPROPYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	METHYL TERT-BUTYL ETHER	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	METHYLENE CHLORIDE	5	N/A	100	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	NAPHTHALENE	30	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	N-BUTYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	N-PROPYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	P-ISOPROPYLTOLUENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	SEC-BUTYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	STYRENE	100	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TERT-BUTYLBENZENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TETRACHLOROETHENE	5	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TOLUENE	750	N/A	750	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TRANS-1,2-DICHLOROETHENE	100	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TRANS-1,3-DICHLOROPROPENE	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TRICHLOROETHENE	5	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	TRICHLOROFLUOROMETHANE	N/A	N/A	N/A	ND	U	2	ND	U	2	ND	U	2	ND	U	2	ND	U	2
	VINYL CHLORIDE	1	N/A	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1	ND	U	1
	XYLENES	10000	N/A	620	ND	U	3	ND	U	3	ND	U	3	ND	U	3	ND	U	3

Table 1 Groundwater Analytical Results
Nine Additional Groundwater Monitoring Wells

Chemical Class & Analytical Method ^a	Parameter	EPA MCLs ^{b,d}	NMED Approved Background ^c	NMED Ground Water Protection Standards (Sec. 20.6.2.3103)b GWPS	KAFB-106206 ^e			KAFB-106207			KAFB-106208			KAFB-106209			KAFB-106209 ^e		
					Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL
SVOCs (µg/L) Method 8270C	1,1-BIPHENYL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	1,2-DIPHENYLHYDRAZINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	1-METHYL NAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2,4,5-TRICHLOROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2,4,6-TRICHLOROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2,4-DICHLOROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2,4-DIMETHYLPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	2,4-DINITROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	50	ND	U	50	ND	U	50	N/A	N/A	N/A
	2,4-DINITROTOLUENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2,6-DINITROTOLUENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2-CHLORONAPHTHALENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2-CHLOROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2-METHYLNAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2-METHYLPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	2-NITROANILINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	2-NITROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	3,3'-DICHLOROBENZIDINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	3-METHYLPHENOL AND 4-METHYLPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	3-NITROANILINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	4,6-DINITRO-2-METHYLPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	4-BROMOPHENYL PHENYL ETHER	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	4-CHLORO-3-METHYLPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	4-CHLOROANILINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	4-CHLOROPHENYL PHENYL ETHER	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	4-NITROANILINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	4-NITROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	ACENAPHTHENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	ACENAPHTHYLENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	ACETOPHENONE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	ATRAZINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZALDEHYDE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZIDINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	100	ND	U	100	ND	U	100	N/A	N/A	N/A
	BENZO(A)ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZO(A)PYRENE	0.2	N/A	0.7	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZO(B)FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZO(GHI)PERYLENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZO(K)FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BENZOIC ACID	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	100	ND	U	100	ND	U	100	N/A	N/A	N/A
	BIS(2-CHLOROETHOXY)METHANE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BIS(2-CHLOROETHYL)ETHER	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BIS(2-CHLOROISOPROPYL)ETHER	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BIS(2-ETHYLHEXYL)PHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	BUTYL BENZYL PHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	CAPROLACTAM	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	CARBAZOLE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	CHRYSENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	DIBENZO(A,H)ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	DIBENZOFURAN	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	DIETHYL PHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	DIMETHYL PHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	DI-N-BUTYL PHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	DI-N-OCTYL PHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	FLUORENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	HEXACHLOROBENZENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	HEXACHLOROBUTADIENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	HEXACHLOROCYCLOPENTADIENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	10	ND	U	10	ND	U	10	N/A	N/A	N/A
	HEXACHLOROETHANE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	INDENO(1,2,3-CD)PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	ISOPHORONE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	NAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	NITROBENZENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	N-NITROSO-DI-N-PROPYLAMINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	N-NITROSODIPHENYLAMINE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	PENTACHLOROPHENOL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	20	ND	U	20	ND	U	20	N/A	N/A	N/A
	PHENANTHRENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	PHENOL	5	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A
	PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	5	ND	U	5	ND	U	5	N/A	N/A	N/A

Table 1 Groundwater Analytical Results
Nine Additional Groundwater Monitoring Wells

Chemical Class & Analytical Method ^a	Parameter	EPA MCLs ^{b,d}	NMED Approved Background ^c	NMED Ground Water Protection Standards (Sec. 20.6.2.3103) ^b GWPS	KAFB-106206 ^e			KAFB-106207			KAFB-106208			KAFB-106209			KAFB-106209 ^e		
					Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL	Result	VALQUAL	RL
PAHs (µg/L) Method 8270C	1-METHYL NAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2-METHYLNAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ACENAPHTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ACENAPHTHYLENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BENZO(A)ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BENZO(A)PYRENE	0.2	N/A	0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BENZO(B)FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BENZO(GH)PERYLENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BENZO(K)FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CHRYSENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DIBENZO(A,H)ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	FLUORANTHENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	FLUORENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	INDENO(1,2,3-CD)PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NAPHTHALENE	30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PHENANTHRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Metals (mg/L) Method 6010B	CALCIUM	N/A	N/A	N/A	N/A	N/A	N/A	53.8	5	54.5	5	35.3	5	N/A	N/A	N/A	N/A	N/A	
	LEAD	0.015	0.01	0.05	N/A	N/A	N/A	ND	U	0.003	ND	U	0.003	U	0.003	N/A	N/A	N/A	
	MAGNESIUM	N/A	N/A	N/A	N/A	N/A	N/A	7.16	5	6.7	5	4.38	J	5	N/A	N/A	N/A	N/A	
	POTASSIUM	N/A	N/A	N/A	N/A	N/A	N/A	2.68	J	5	2.72	J	5	2.21	J	5	N/A	N/A	N/A
	SODIUM	N/A	N/A	N/A	N/A	N/A	N/A	24.3	5	28.7	5	23.9	5	N/A	N/A	N/A	N/A	N/A	
	IRON, DISSOLVED	0.3	N/A	1	N/A	N/A	N/A	ND	U	0.1	ND	U	0.1	ND	U	0.1	N/A	N/A	N/A
	MANGANESE, DISSOLVED	0.05	N/A	0.2	N/A	N/A	N/A	0.00554	J	0.015	0.0492	U	0.015	0.00544	J	0.015	N/A	N/A	N/A
Anions (mg/L) Method E300.0	CHLORIDE	250	N/A	250	N/A	N/A	N/A	39.1	2.5	41.2	1	9.68	1	N/A	N/A	N/A	N/A		
	SULFATE	250	N/A	600	N/A	N/A	N/A	47.3	2.5	49.8	2.5	29.3	2.5	N/A	N/A	N/A	N/A		
	NITROGEN, NITRATE-NITRITE	N/A	4	N/A	N/A	N/A	N/A	1.1	J	1.5	0.942	J	1.5	ND	U	1.5	N/A	N/A	
	AMMONIA (AS N)	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	0.3	ND	U	0.3	ND	U	0.3	N/A	N/A	
	SULFIDE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	3.7	ND	U	3.7	ND	U	3.7	N/A	N/A	
Alkalinity (mg/L) Method SM2320B	ALKALINITY, BICARBONATE (AS CaCO3)	N/A	N/A	N/A	N/A	N/A	N/A	101	1	96.1	1	109	1	N/A	N/A	N/A	N/A		
	ALKALINITY, CARBONATE (AS CaCO3)	N/A	N/A	N/A	N/A	N/A	N/A	ND	U	1	ND	U	1	ND	U	1	N/A	N/A	
Field Parameters	Temperature (°C)	N/A	N/A	N/A				18.85		19.01		19.51		19.15		19.3			
	pH (S.U.)	N/A	N/A	N/A				7.09		7.72		7.72		7.80		7.78			
	Spec Cond (µS/cm2)	N/A	N/A	N/A				507		446.7		450.8		312.5		320			
	DO (mg/L)	N/A	N/A	N/A				NM		7.81		NM		NM		NM			
	ORP (mV)	N/A	N/A	N/A				152		148		188		200		121			
	Turbidity (NTU)	N/A	N/A	N/A				0.53		0.83		0.62		0.93		0.36			
	Alkalinity (mg/L as CaCO3)	N/A	N/A	N/A				NS		128		104		108		NS			

The NMWQCC standard and EPA MCL for m,p-xylene and o-xylene is for total xylenes.
a. EPA analytical methods listed are for the most recent sampling event.
b. The WQCC regulation for PAHs of 30 ug/L is a total of the concentrations of naphthalene, 1-methylnaphthalene, and anthracene.
c. NMED-HWB Approved Background Concentrations, SNL/Kirtland AFB, Chemical Constituents in Ground Water.
d. EPA National Primary Drinking Water Standards - Maximum Contaminant Levels (MCLs), or if more stringent, New Mexico.
e. Sample collected to test for gas bubbles. VOC and EDB data only.
Shading indicates the analyte was detected.
Bold indicated analyte detected greater than regulatory standard
J = estimated value, concentration is less than RL but greater than laboratory method detection limit (MDL).
J+ = estimated value, concentration is less than RL but greater than laboratory method detection limit (MDL); biased high.
J- = estimated value, concentration is less than RL but greater than laboratory method detection limit (MDL); biased low.
U = Analyte was not detected. The reported numerical value is at or below the RL.
UJ = Analyte was tentatively not detected. The reported numerical value is at or below the RL.
N/A = Not applicable or Not available
ND = Not detected
NM = not measured due to equipment malfunction.
NR = Not recorded or reported due to operational error