

Table 1
Summary of Detected Analytes in Groundwater for OB/OD^a

Analyte	Sample Analysis						Regulatory Standard			
	Total Samples	No. Detects	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Arithmetic Mean (µg/L)	NMW QCC ^b (µg/L)	EPA MCL ^c (µg/L)	EPA HHMS SL ^d (µg/L)	Max. Detect Conc. > Min. Screening Level?
Explosives										
Dinitrobenzene, 1,3-	144	10	6.9 %	0.30	12	6.17	NE	NE	1.50	YES
Dinitrotoluene, 2,4-	138	3	2.1%	0.0856	0.58	0.35	NE	NE	30.0	NO
Dinitrotoluene, 2-Amino-4,6	144	20	13.9%	0.064	3.89	1.73	NE	NE	30.0	NO
Dinitrotoluene, 4-Amino-2,6	144	18	12.5%	0.15	6.13	2.37	NE	NE	30.0	NO
Hexahydro-1,3,5-trinitro-1,3,5-triazine	145	29	20%	0.093	250	46.9	NE	NE	0.61	YES
Methyl-2,4,6-trinitrophenylnitramine	30	2	6.7%	0.52	14	7.26	NE	NE	NE	NO
Nitrobenzene	144	4	2.8%	0.098	2.7	1.03	NE	NE	0.12	YES
Nitrotoluene, 2-	144	2	1.4%	0.205	0.72	0.46	NE	NE	0.31	YES
Nitrotoluene, 3-	144	1	0.69%	0.94	0.94	0.94	NE	NE	1.3	NO
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	144	19	13.2%	0.20	28	15.17	NE	NE	780	NO
Tetryl	105	3	2.9%	0.47	1.1	0.84	NE	NE	61.0	NO
Trinitrobenzene, 1,3,5-	145	1	0.69%	1.8	1.8	1.8	NE	NE	460	NO
Trinitrotoluene, 2,4,6-	144	8	5.6%	0.17	2.5	0.72	NE	NE	2.20	YES
Perchlorate (µg/L)										
Perchlorate	136	72	53%	0.025	13	2.16	NE	15.0	11.0	NO
Pesticides (µg/L)										
DDD, 4,4'-	85	1	1.2%	0.0096	0.0096	0.0096	NE	NE	0.027	NO
Chlordane, alpha-	85	1	1.2%	0.025	0.025	0.025	NE	2.00	0.19	NO
Delta-BHC	85	3	3.5%	0.014	0.050	0.036	NE	NE	NE	NO
Endrin Ketone	85	1	1.2%	0.26	0.26	0.26	NE	NE	NE	NO
Heptachlor	85	2	2.4%	0.0085	0.038	0.023	NE	0.40	0.0018	NO
Methoxychlor	85	1	1.2%	0.011	0.011	0.011	NE	40.0	27.0	NO

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Semivolatile Organic Compounds										
Acetophenone	91	2	2.2%	1.15	2.2	1.68	NE	NE	1,500	NO
Benzoic Acid	6	1	16.7%	14	14	14	NE	NE	58,000	NO
Benzaldehyde	92	1	1.1%	0.55	0.55	0.55	NE	NE	1,500	NO
Bis(2-ethylhexyl)phthalate	101	20	19.8%	0.28	8.5	1.91	NE	6.00	4.80	YES
Caprolactam	82	6	7.3%	3.2	140	28.8	NE	NE	7,700	NO
Dibutyl phthalate	96	7	7.3%	0.24	2.66	1.47	NE	NE	670	NO
Diethyl phthalate	102	1	0.98%	0.36	0.36	0.36	NE	NE	11,000	NO
Di-n-butyl phthalate	6	1	16.7%	1.7	1.7	1.7	NE	NE	NE	NO
Di-n-octyl phthalate	102	1	0.98%	0.25	0.25	0.25	NE	NE	NE	NO
Dinitrophenol, 2,4-	103	1	0.98%	19	19	19	NE	NE	30	NO
Dinitrotoluene, 2,4-	102	2	2%	0.32	0.38	0.35	NE	NE	30.0	NO
Nitroso-di-N-propylamine, N-	102	1	0.98%	0.33	0.33	0.33	NE	NE	0.0093	YES
Nitrosodiphenylamine, N-	102	5	4.9%	0.44	1.2	0.70	NE	NE	14.0	NO
Phenol	103	5	4.9%	0.20	3.14	2.0	NE	NE	4,500	NO
Volatile Organic Compounds										
Acetone	177	20	11.3%	1.4	28	9.92	NE	NE	12,000	NO
Benzene	178	13	7.3%	0.11	1.6	0.82	10.0	5.00	0.39	NO
Bromomethane	178	5	2.8%	0.088	0.2	0.15	NE	NE	7.00	NO
Butanone, 2-	178	4	2.2%	1.1	3.2	2.1	NE	NE	4900	NO
Carbon disulfide	179	47	26.3%	0.12	940	41.6	NE	NE	720	NO
Chlorobenzene	178	3	1.7	0.10	0.13	0.11	NE	100	72	NO
Chloroform	178	2	1.1%	0.071	0.16	0.12	100	80.0	0.19	NO
Chloromethane	178	21	11.8%	0.082	3.1	1.02	NE	NE	190	NO
Dichloroethane, 1,2-	178	2	1.1%	0.051	0.057	0.054	10.0	5.00	0.15	NO
Dichloroethene, cis-1,2-	178	1	0.56%	0.68	0.68	0.68	NE	70	28	NO
Dichloroethene, trans-1,2-	178	1	0.56%	0.20	0.20	0.20	NE	100	86	NO
Dioxane, 1,4-	89	6	6.7%	16	32	24.7	NE	NE	0.67	YES

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Hexanone, 2-	178	3	1.7%	0.19	0.67	0.43	NE	NE	34.0	NO
Methyl acetate	161	1	0.62%	0.88	0.88	0.88	NE	NE	16,000	NO
Methylene chloride	178	2	1.1%	0.10	0.2	0.15	100	5.00	5.00	NO
Methyl isobutyl ketone	113	3	2.7%	0.21	3.2	1.36	NE	NE	1,000	NO
Tetrachloroethene	178	14	7.9%	0.21	3.1	1.69	20.0	5.00	9.9	NO
Toluene	178	9	5.1%	0.21	18	3.07	750	1,000	860	NO
Anions										
Cyanide	58	1	1.7%	0.010	0.010	0.010	200	200	1.40	NO
Nitrate	150	94	62.7%	0.9	27,100	3,180	10,000	10,000	25,000	YES
Nitrite	137	25	18.2%	2.7	880	170	NE	1,000	1600	NO
Nitrate as N	15	12	80%	240	9,000	2,180	10,000	10,000	10,000	NO
Nitrite as N	15	1	6.7%	54	54	54	NE	1,000	1,000	NO

Note: If both a NMWQCC standard and an EPA MCL have been established for a contaminant, the more conservative value will be compared against. If no NMWQCC standard or EPA MCL have been established, the EPA HHMSSL will be compared against.

^a Table summarizes groundwater data collected at FWDA from April 2008 through October 2012.

^b New Mexico Water Quality Control Commission (NMWQCC), 2001. 20.6.2.7(ww) New Mexico Administrative Code (NMAC), Definitions – toxic pollutant.

^c U.S. Environmental Protection Agency (EPA), 2012. Regions 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites, updated November.

^d U.S. Environmental Protection Agency (EPA), 2012. Regional Screening Level Tapwater Supporting Table, updated November.

^e For perchlorate, a value of 6 µg/L is used per the FWDA RCRA Permit

> = Greater than

EPA = Environmental Protection Agency

FWDA = Fort Wingate Depot Activity

HHMSSL = Human Health Medium-Specific Screening Level

MCL = Maximum Contaminant Level

µg/L = Microgram per liter

NE = Not established

NMED = New Mexico Environment Department

NMWQCC = New Mexico Water Quality Control Commission

No. = Number

OB/OD = Open Burn/Open Detonation

RCRA = Resource Conservation and Recovery Act

TABLE 2
HAZARDOUS WASTE MANAGEMENT UNIT, SOLID WASTE MANAGEMENT UNIT, AND AREA OF CONCERN TABLE

SWMU/AOC	Parcel	Description	Figure No.
SWMU 1	21	TNT Leaching Beds & Building 503	18
SWMU 2	21	Building 515 (Painting and Acid Washout Building and Acid Holding Pond	14
SWMU 3	11	Fenced Storage Yard (Former Storage Yard or DRMO Area, Extended Storage Yard, Former Coal Storage Area)	13
SWMU 4	6	Building 600 (Building 539, Ammunition Work Shop Area Change House and Laundry)	14
SWMU 5	11	Building 5	13
SWMU 6	11	Former Locomotive Shop	13
SWMU 7	21	Fire Training Ground	13
SWMU 8	6	Building 537 (Pesticide and Field Battery Shop)	
SWMU 9	7	POL Waste Discharge Area	13
SWMU 10	11	Sewage Treatment Plant (includes Buildings/Structures 22, T-37, 63, 69, 70, 71, 72, 73, 74a, 74b, 74c, 74d, 82, 83, Document Incinerator, Structure 745, Drainage Ditch, Septic System at Sewage Treatment Plant)	13
SWMU 11	6	Building 542 (Ammunition Workshop) and Building 541	14
SWMU 12	22	Building 536 (Inspectors Workshop and Ammunition Renovation Depot (Includes one former PCB Transformer))	19c
SWMU 13	18	Eastern Landfill	13
SWMU 14	3	Old Burning Ground and Demolition Landfill Area (Includes KGA-3, KGA-4, KGA-5, KP-2, KP-3, KP-4, Arroyo in Fenced Up Horse Valley, and Dump Pile)	20e
SWMU 15	3	Old Demolition Area (Includes Inactive EOD Area, KGA-1, KGA-2, Old OB/OD & Buried White Phosphorus Rounds, and Three Mounds in Fenced-Up Horse Valley)	20f
SWMU 16	16, may include 15	Functional Test Range 2/3	21e,f
SWMU 17	2	Western Rifle Range	23a
AOC 18	9, 24	Igloo Block A	24a,b,c,d,e,f,g,h,i,j
SWMU 19	21	Building 501 (Former Boiler House and Heating Plant No. 7)	14

SWMU/AOC	Parcel	Description	Figure No.
SWMU 20	7	Western Landfill, includes Features 3 and 4 on 1962 air photo API-3 (1995 Archive Search Report)	13
SWMU 21	23	Central Landfill	14
SWMU 22	2	Group C Landfill	15
SWMU 23	11	Building 8 (Paint Shop or Carpenter Shop) and Building 7 (Paint Shop and Paint Storage Warehouse)	13
SWMU 24	11	Building 15 (Garage and Storage Bldg.)	13
SWMU 25	7	Trash Burning Ground Property Disposal Office includes Features 1, 2, and 5 on the 1962 aerial photo API-3 (from the 1995 Archive Search Report)	13
SWMU 26	10	Suspected POL Area. Large Berm North of the Railroad Classification Yard	13
SWMU 27	22	Building 528 Complex. Includes Building 528 (Ammunition Normal Maintenance Building), building 528A (temporary storage igloo), AOC 121 (Building 528B temporary storage igloo), AOC 122 (Building 529), AOC 125 (Building 550, Vacuum collector barricade), AOC 126 (Building 551, service magazine)	14
AOC 28	6	Igloo Block B	28a,b,c,d
AOC 29	2, 4, 19, 23	Igloo Block C	26a,b,c,d,e,f,g,h
AOC 30	19, 22	Igloo Block D	27a,b,c,d,e,f,
AOC 31	19	Igloo Block E	28
AOC 32	19	Igloo Block F	29a,b,c,d
SWMU 33	3	Waste Pile KP1	20f
AOC 34	19	Igloo Block G	30a,b,c,d,e,f,
AOC 35	2	Igloo Block H	23f,g,h,i,j,k
AOC 36	2	Igloo Block J	23c,d,e
SWMU 37	2	Building 9 (Machine Shop and Signal Shop)	13
SWMU 38	20	Functional Test Range 1	16
SWMU 39	19	Pistol Range	17
SWMU 40	11	South Administration Area. Formerly named the Coal Tar Storage Tanks (Structures 58, 59, and 60), SWMU 48 (Building 10), SWMU 49 (Building 12), SWMU 50 (Building 13), SWMU 51 (Building 29), SWMU 52 (Building T-33), SWMU 53 (Building 36), SWMU 54 (UST #5), AOC 55 (Structure T-49), AOC 56 (Building T-50), AOC 72 (Building 14), SWMU 77 (Building T-34), AOC 83 (Structure 63), and AOC 87 (Structure 57)	13

SWMU/AOC	Parcel	Description	Figure No.
AOC 41	16	Igloo Block K	21a,b,c,d
AOC 42	6	Building 516 (Ammunition Receiving Building)	22d
AOC 43	7	Railroad Classification Yard	25
AOC 44	10	Former Administration and Utilities Area	31a,b
SWMU 45	11	Building 6 (Gas Station)	32
AOC 46	11	Above Ground Tank located Blg. 11	32
AOC 47	11	TPL spill of photoflash powder west of Blg. 11	32
AOC 48	11	Building 34 (Fire Station)	32
AOC 49	11	Structure 38 (End Loading Dock) and Structure 39 (Side Loading Dock)	32
SWMU 50	11	Structure 35 (Underground Storage Tank (UST #7) located by Building 45)	32
AOC 51	6 or 11	Structure 64 (Underground Storage Tank)	32
AOC 52	11	Building 79 and Building 80 (Storage Vaults)	32
AOC 53	13	Lake Knudson	33a
AOC 54	13	Building 311 (Standard Magazine)	33b
AOC 55	13	Structure 506 (TNT Storage Barricade)	33c
AOC 56	13	Structure 533 (Explosive Barricade)	33c
AOC 57	16	Buildings 306, 307, 308, 309, 310 (Standard Magazines near Knudson Lake)	21g,h
AOC 58	19	Buildings 303 and 304 (Standard Magazines) and 320 (Field Dunnage Building along Arterial Road No. 3)	34a,
AOC 59	19	Building T-422 (former Blg. X-11, Normal Maintenance Blg., Bomb and Shell Paint Blg.)	34b
AOC 60	21	Building 522 formerly designated as Building 500 (Ammunition Receiving Bldg.)	18
AOC 61	21	Building 507 (Smokeless Powder Magazine)	18
AOC 62	21	Building 508 (Smokeless Powder Magazine)	18
AOC 63	21	Building 509 (Primary Collector Barricade or Propellant Baghouse)	18
AOC 64	21	Building 510 (Vacuum Producer Building)	18
AOC 65	21	Building 511 (Service Magazine)	18
AOC 66	21	Building 512 (Service Magazine)	18
AOC 67	21	Building 513 (Service Magazine)	18
AOC 68	21	Structure 514 (Deboosting Barricade) and Structure 545 (Earthen Barricade)	18
AOC 69	22	Buildings 301, 302, and 312 (standard Magazines), Building 316 (Field Lunch Room)	19b,c

SWMU/AOC	Parcel	Description	Figure No.
SWMU70	22	Disassembly Plant and TPL QA Test Area (Disassembly Plant includes Building 517, Structure 518, Building 519, Structure 520, Structure 521, Structure 547) Disassembly Plant and TPL QA Test and OB/OD Area	19a
SWMU 72	21 and may include 22	Deactivation Furnace, Deactivation Furnace Acid Pits, and surrounding area (includes pre-1958 buildings and areas in the vicinity of Blg. 530)	14
AOC 73	23	Former building or structures along Road C-3	35
SWMU 74	3	Area 16 or Site 16 (Proposed Burning Ground) – to be addressed under the Kickout Area requirements unless this area is determined to be outside the Kickout Area boundary as defined in Permit Section IV.A	20g
AOC 75	6, 7, 11, 12, 13, 19, 21, 22, and may include other parcels	Electrical Transformers (at least 65 former or existing transformers)	25
AOC 76	2	Feature 19 on the 1973 aerial photo (API-5) in the 1995 Archive Search Report	23b
AOC 77	2	Feature 20 on the 1973 aerial photo (API-5) in the 1995 Archive Search Report	23a,b
AOC 79	6	Feature 2 on the 1973 aerial photo (API-5) in 1995 Archive Search Report	22c
AOC 80	6	Feature 9 on 1962 aerial photo (API-3) in 1995 Archive Search Report	22b
AOC 81	6	Feature 11 on 1962 aerial photo (API-3) in 1995 Archive Search Report	22a
AOC 83	6	Feature 22 on 1973 aerial photo (API-5) in 1995 Archive Search Report	22a
AOC 84	6	Feature 12 on 1962 aerial photo (API-3) in 1995 Archive Search Report	22a
AOC 85	9	Feature 11-1 on 1962 aerial photo (API-3) in 1995 Archive Search Report and Feature 1 on 1973 aerial photo (API-5) in 1995 Archive Search Report	36
AOC 86	13	Feature 15 on 1973 aerial photo (API-5) in 1995 Archive Search Report	33c
AOC 88	22	Former buildings or structures and disposal areas southwest, south, and southeast of Blg. 528	19a,b
AOC 89	3	Feature 30 and Feature 34 on 1973 aerial photo (API-5) in 1995 Archive Search Report	20b

SWMU/AOC	Parcel	Description	Figure No.
AOC 90	3	Feature 36 on 1973 aerial photo (API-5) in 1995 Archive Search Report	20c
AOC 91	3	Feature 41 in the 1973 aerial photo (API-5) and Feature 27 on the 1978 historic aerial photo (API-7) in the 1995 Archive Search Report	20d
AOC 92	3	Feature 31 on the 1973 historic aerial photo (API-5) and Feature 21 on the 1978 aerial photo (API-7) in 1995 Archive Search Report	20a

Table 3
Wells and Surface Water Bodies Within 1/4 Mile
Fort Wingate Depot Activity
Gallup, New Mexico

PMC Well ID	Owner's Well ID	NM State ID	Location (T.R.S.)	UTM East (X)	UTM North (Y)	Latitude	Longitude	Owner	Owner's Phone Number	Year Drilled	Driller	Drilling Method	Borehole Diameter (in)	Borehole Total Depth (ft)	Casing Diameter (inches)	Casing Total Depth (ft)	Material	Screen Length (ft)	Screened Interval (ft bgs) ¹	Screened Interval Elevation (ft msl)	Aquifer Formation	Depth to Water (ft.)	Date of measurement	Yield (gpm)	Description	Water Use	Agency Reporting well	Remarks
19	--	--	14.17.15.1321	714,886	3,925,114	35 26 46.7	108 37 56.7	--	--	--	--	--	--	--	--	--	--	--	--	--	Qal	--	--	--	Well	Unknown	Hist	Dug well
27	Wingate 7	--	15.16.20.2411	722,099	3,933,277	35 31 05.7	108 33 02.8	EPNG	--	Dec-66	Layne-Western	--	18 14 11	108 1268 1384	16 12.75 11	108 1268 1384	Steel	--	--	--	Psa, Pg Kc	--	--	--	Well	Unknown	Hist, USGS	
28	Wingate 6	--	15.16.20.2443	722,344	3,933,050	35 30 58.2	108 32 53.3	EPNG	--	Feb-58	Layne-Texas	--	18 15 11	264 1033 1275	12.75 11	1033 1275	Steel	--	--	--	Psa, Pg Kc	33.36	2/12/87	--	Well	Unknown	Hist, USGS	
29	Wingate	--	15.16.21.3231	722,836	3,932,770	35 30 48.7	108 32 34.1	ATSF	--	Oct-26	Linscott	--	--	1305	16 12.5 10 8 6	297 527 748 963 1305	Steel	--	--	--	Psa, Pg Kc	--	1926 1926 1931 1950 1967	45 126 36 60 4	Well	Unknown	Hist	As of 6/2/03, this well is not currently used by the owner
32	Wingate340	--	15.16.30.3443	720,113	3,930,664	35 29 42.6	108 34 24.1	FWDA	435-833-3257	1968	Coffey	--	--	1945	16	15	--	--	--	--	Kc	66.5	1969	40	Well	Municipal Supply	USACE	Plugged back to 980'
51	Wingate90	--	15.17.13.3141	717,813	3,934,242	35 31 40.4	108 35 51.8	FWDA	435-833-3257	1963	--	--	--	102	8.63	100	--	--	--	--	Qal	27.5 22.8	1963 1969	18	Well	Monitoring	USACE	
52	Wingate89	--	15.17.13.3243	718,221	3,934,131	35 31 36.5	108 35 35.8	FWDA	435-833-3257	1963	--	--	--	113	12.75	--	--	--	--	--	Qal	32.8 25.4	1963 1969	49	Well	Monitoring	USACE	
53	16T603	260	15.17.14.214	717,365	3,934,726	35 31 56.5	108 36 09.2	NTUA	520-729-5721	Jan-71	Perry Bros.	--	8.63	136	8	96	--	--	--	--	Kc	45.3	1/20/71	125	Well	Municipal Supply	NNWD, IHS	Church Rock N - currently inactive
54	16T602	260	15.17.14.2324	717,239	3,934,556	35 31 51.1	108 36 14.4	NTUA	520-729-5721	Jan-71	Perry Bros.	--	8.63	120	8	90	--	--	--	--	Kc	31.6	2/16/71	125	Well	Municipal Supply	NNWD, IHS	Church Rock S - currently inactive
55	16T538UNC	260	15.17.14.242	715,913	3,934,670	35 31 55.8	108 37 06.9	NTUA	520-729-5721	1984	Navajo Tribe	--	--	56	8.58	56	Steel	--	34-54	6595.2-6575.2 ²	Kc	15	1984	125	Well	Municipal Supply	NNWD, NTUA	Church Rock UNC
56	Wingate91	--	15.17.14.4224	717,571	3,934,348	35 31 44.1	108 36 01.4	FWDA	435-833-3257	1963	--	--	--	125	12.75	--	--	--	--	--	Qal	23	1963	18.5	Well	Monitoring	USACE	
57	16T538E	260	15.17.15.2432	715,702	3,934,682	35 31 56.4	108 37 15.2	NTUA	520-729-5721	Mar-66	Navajo Tribe	--	--	88	8.58	88	--	--	57-87	6567.3-6537.3 ²	Kc	12	11/28/79	125	Well	Municipal Supply	NNWD, NTUA	Church Rock E
58	16T538C	--	15.17.15.1414	714,970	3,934,714	35 31 58.0	108 37 44.2	(IHS)	505-726-2530	--	--	--	--	--	8.04	86	--	--	--	--	--	12.1	11/13/79	--	Well	Unknown	NNWD, IHS	Abandoned/Inactive
59	16T538D	--	15.17.15.2314	715,255	3,934,696	35 31 57.2	108 37 32.9	(IHS)	505-726-2530	--	--	--	--	--	8.04	87	--	--	--	--	--	12.1	11/16/79	--	Well	Unknown	NNWD, IHS	Abandoned/Inactive
69	Wingate69	--	15.17.24.4121	718,768	3,932,883	35 30 55.6	108 35 15.4	FWDA	435-833-3257	9/10/70	--	--	--	1356	16 12.75 8.75	100 1037 1350	--	--	1100-1350	5585.79-5335.79	Psa, Pg	29.02 0 94.25	1/18/79 7/30/90 7/26/95	--	Well	Municipal Supply	USACE	
71	CMW02	--	--	716,231	3,923,167	35 25 42.5	108 37 05.3	FWDA	435-833-3257	8/15/96	Phillip	AR	8.0	43.0	2.0	37.90	PVC	10	25.0 - 35.0	7221.61-7231.61	Trpp	9.56	10/10/98	2.00	Well	Monitoring	USACE	
72	CMW04	--	--	716,234	3,923,330	35 25 47.7	108 37 05.0	FWDA	435-833-3257	8/15/96	Phillip	AR	8.0	136.6	2.0	137.91	PVC	20	115.0 - 135.0	7114.50-7134.50	Trpp	25.71	10/10/98	1.50	Well	Monitoring	USACE	
73	CMW06	--	--	716,156	3,923,557	35 25 55.1	108 37 07.8	FWDA	435-833-3257	10/5/96	Phillip	HSA	4.0	18.6	2.0	21.10	PVC	10	8.3 - 18.3	7195.83-7205.83	Qal	19.56	10/10/98	--	Well	Monitoring	USACE	
74	CMW07	--	--	716,119	3,923,556	35 25 55.2	108 37 09.3	FWDA	435-833-3257	8/12/96	Phillip	HSA/AR	8.0	65.8	2.0	66.60	PVC	20	44.0 - 64.0	7169.61-7189.61	Trpp	39.01	10/10/98	0.40	Well	Monitoring	USACE	
75	CMW10	--	--	715,972	3,923,954	35 26 08.2	108 37 14.7	FWDA	435-833-3257	10/1/96	Phillip	HSA/AR	8.0	70.9	2.0	73.10	PVC	20	50.5 - 70.5	7107.21 - 7127.21	Trpp	17.32	10/10/98	<1	Well	Monitoring	USACE	
76	CMW14	--	--	715,996	3,924,270	35 26 18.4	108 37 13.5	FWDA	435-833-3257	9/30/96	Phillip	HSA/AR	9.0	94.6	2.0	96.75	PVC	10	84.2 - 94.2	7057.36 - 7067.36	Trpp	26.71	10/10/98	<1	Well	Monitoring	USACE	
77	CMW16	--	--	716,076	3,925,174	35 26 47.7	108 37 09.4	FWDA	435-833-3257	9/6/96	Phillip	HSA/AR	8.0	31.8	2.0	32.72	PVC	10	20 - 30	7052.17 - 7062.17	Trpp	19.68	10/10/98	2.50	Well	Monitoring	USACE	
78	CMW17	--	--	715,979	3,924,278	35 26 18.7	108 37 14.2	FWDA	435-833-3257	8/17/96	Phillip	HSA/AR	8.0	53.0	2.0	54.24	PVC	20	32.0 - 52.0	7091.72 - 7111.72	Trpp	19.40	10/10/98	1.00	Well	Monitoring	USACE	
79	CMW18	--	--	715,955	3,924,284	35 26 18.9	108 37 15.1	FWDA	435-833-3257	8/21/96	Phillip	HSA/AR	8.0	53.0	2.0	54.10	PVC	20	32.0 - 52.0	7104.63 - 7124.63	Trpp	36.51	10/10/98	1.00	Well	Monitoring	USACE	
80	CMW19	--	--	716,000	3,924,554	35 26 27.6	108 37 13.1	FWDA	435-833-3257	9/28/96	Phillip	HSA/AR	8.0	52.8	2.0	51.30	PVC	15	33.5 - 48.5	7079.61 - 7094.61	Trpp	19.21	10/10/98	<1	Well	Monitoring	USACE	
81	CMW20	--	--	716,131	3,923,691	35 25 59.5	108 37 08.7	FWDA	435-833-3257	10/5/96	Phillip	HSA/AR	4.0	5.8	2.0	8.15	PVC	3	2.5 - 5.5	7187.64 - 7190.64	Qal	6.96	10/10/98	--	Well	Monitoring	USACE	
82	CMW21	--	--	716,075	3,925,217	35 26 49.1	108 37 09.4	FWDA	435-833-3257	8/12/98	Stewart Bros.	HSA/AR	5.5	74.5	2.0	69.44	PVC	10	57-67	7016.66 - 7026.66	Trpp	27.92	10/10/98	0.70	Well	Monitoring	USACE	
83	CMW22	--	--	716,109	3,925,480	35 26 57.6	108 37 07.9	FWDA	435-833-3257	8/10/98	Stewart Bros.	HSA/AR	5.5	122.0	2.0		PVC	20	96.5-116.5	6960.98 - 6980.98	Trps	116.27	10/10/98	<1	Well	Monitoring	USACE	
84	CMW23	--	--	716,465	3,926,006	35 27 14.4	108 36 53.2	FWDA	435-833-3257	9/4/98	Stewart Bros.	HSA/AR	5.5	112.0	2.0	106.60	PVC	20	84-104	6926.22 - 6946.22	Trps	95.29	10/10/98	<1	Well	Monitoring	USACE	
85	CMW24	--	--	716,007	3,925,234	35 26 49.7	108 37 12.1	FWDA	435-833-3257	7/31/98	Stewart Bros.	HSA/AR	6.3	262.0	2.0	262.34	PVC	30	230-260	6834.94 - 6864.94	Trpp	70.65	10/10/98	1.00	Well	Monitoring	USACE	
86	CMW25	--	--	716,394	3,926,397	35 27 27.1	108 36 55.7	FWDA	435-833-3257	9/15/98	Stewart Bros.	HSA/AR	5.0	97.0	2.0	98.78	PVC	25	71-96	6906.19 - 6931.19	Trpp	37.52	10/10/98	1.00	Well	Monitoring	USACE	
87	KMW09	--	--	715,236	3,924,532	35 26 27.5	108 37 43.3	FWDA	435-833-3257	9/28/96	Phillip	HSA/AR	9.0	80.4	2.0	72.90	PVC	10	60 - 70	7116.54 - 7126.54	Km	40.77	10/10/98	1.00	Well	Monitoring	USACE	
88	KMW10	--	--	715,934	3,925,122	35 26 46.1	108 37 15.1	FWDA	435-833-3257	9/27/96	Phillip	HSA/AR	8.0	168.5	2.0	171.02	PVC	10	158 - 168	6961.65 - 6971.65	Je	166.69	10/10/98	<1	Well	Monitoring	USACE	
89	KMW11	--	--	715,225	3,924,441	35 26 24.6	108 37 43.9	FWDA	435-833-3257	8/6/96	Phillip	HSA/AR	9.0	63.0	2.0	57.44	PVC	20	35 - 55	7052.25 - 7072.25	Trpp	31.49	10/10/98	1.00	Well	Monitoring	USACE	
90	KMW12	--	--	715,727	3,924,943	35 26 40.4	108 37 23.5	FWDA	435-833-3257	9/2/98	Stewart Bros.	HSA/AR	8.8	75.0	2.0	75.49	PVC	20	53-73	7115.48 - 7135.48	Km	58.65	10/10/98	<1	Well	Monitoring	USACE	
91	KMW13	--	--	715,364	3,924,667	35 26 31.8	108 37 38.2	FWDA	435-833-3257	8/17/98	Stewart Bros.	HSA/AR	8.8	52.5	2.0		PVC	20	32-52	7111.82 - 7131.82	Kd	44.65	10/10/98	<1	Well	Monitoring	USACE	
92	TMW01	--	--	718,873	3,931,888	35 30 23.2	108 35 12.1	FWDA	435-833-3257	7/31/96	Phillip	HSA/AR	8.0	60.0	2.0	61.23	PVC	15	44.0 - 59.0	6666.18 - 6651.18	Qal	29.94	10/10/98	<1	Well	Monitoring	USACE	
93	TMW02	--	--	718,776	3,932,189	35 30 33.0	108 35 15.7	FWDA	435-833-3257	7/31/96	Phillip	HSA/AR	8.0	85.0	2.0	84.09	PVC	14	67.9 - 81.9	6636.06 - 6622.06	Trpp	52.69	10/10/98	1.00	Well	Monitoring	USACE	
94	TMW03	--	--	718,864	3,932,274	35 30 35.7	108 35 12.1	FWDA	435-833-3257	7/25/96	Phillip	HSA	8.0	70.1	2.0	72.06	PVC	20	49.8 - 69.8	6650.86 - 6630.86	Qal	56.31	10/10/98	<1	Well	Monitoring	USACE	
95	TMW04	--	--	718,929	3,932,521	35 30 34.9	108 35 09.5	FWDA	435-833-3257	7/26/96	Phillip	HSA	8.0	70.5	2.0	72.25	PVC	20	50.0 - 70.0	6649.08 - 6629.08	Qal	55.99	10/10/98	<1	Well	Monitoring	USACE	
96	TMW05	--	--	718,882	3,931,719	35 30 17.7	108 35 11.9	FWDA	435-833-3257	7/23/98	Stewart Bros.	HSA/AR	5.5	37.4	2.0	37.61	PVC	10	25-35	6687.69 - 6677.69	Trpp	32.25	10/10/98	0.30	Well	Monitoring	USACE	

Table 3
Wells and Surface Water Bodies Within 1/4 Mile
Fort Wingate Depot Activity
Gallup, New Mexico

PMC Well ID	Owner's Well ID	NM State ID	Location (T.R.S.)	UTM East (X)	UTM North (Y)	Latitude	Longitude	Owner	Owner's Phone Number	Year Drilled	Driller	Drilling Method	Borehole Diameter (in)	Borehole Total Depth (ft)	Casing Diameter (inches)	Casing Total Depth (ft)	Material	Screen Length (ft)	Screened Interval (ft bgs) ¹	Screened Interval Elevation (ft msl)	Aquifer Formation	Depth to Water (ft.)	Date of measurement	Yield (gpm)	Description	Water Use	Agency Reporting well	Remarks
97	TMW06	--	--	718,819	3,932,734	35 30 50.7	108 35 13.4	FWDA	435-833-3257	8/27/98	Stewart Bros.	HSA/AR	8.8	57.0	2.0	57.24	PVC	10	45-55	6643.85 - 6633.85	Qal	47.30	10/10/98	<1	Well	Monitoring	USACE	
98	TMW07	--	--	718,815	3,932,735	35 30 50.7	108 35 13.5	FWDA	435-833-3257	7/24/98	Stewart Bros.	HSA/AR	5.5	76.0	2.0	67.37	PVC	10	65-75	6633.74 - 6623.74	Qal	52.21	10/10/98	<1	Well	Monitoring	USACE	
99	TMW08	--	--	718,854	3,933,031	35 31 00.3	108 35 11.7	FWDA	435-833-3257	8/29/98	Stewart Bros.	HSA	8.8	62.0	2.0	62.41	PVC	30	30-60	6648.43 - 6618.43	Qal	36.89	10/10/98	1.00	Well	Monitoring	USACE	
100	TMW10	--	--	718,709	3,933,087	35 31 02.2	108 35 17.4	FWDA	435-833-3257	8/20/98	Stewart Bros.	HSA	8.8	65.0	2.0	61.80	PVC	30	28-58	6648.86 - 6618.86	Qal	37.36	10/10/98	1.00	Well	Monitoring	USACE	
101	TMW11	--	--	718,362	3,931,949	35 30 25.6	108 35 32.3	FWDA	435-833-3257	9/9/98	Stewart Bros.	HSA	8.8	82.0	2.0	82.68	PVC	25	55-80	6661.24 - 6636.24	Qal	64.38	10/10/98	1.00	Well	Monitoring	USACE	
102	TMW13	--	--	718,635	3,932,077	35 30 29.5	108 35 21.3	FWDA	435-833-3257	8/11/98	Stewart Bros.	HSA	8.8	72.5	2.0	73.78	PVC	10	60.7-70.7	6644.35 - 6634.35	Qal	58.71	10/10/98	1.00	Well	Monitoring	USACE	
103	TMW14A	--	--	718,456	3,931,753	35 30 19.1	108 35 28.8	FWDA	435-833-3257	1/25/01	Stewart Bros.	AR	5.6	110.0	2.0	112.20	PVC	15	94.25-109.25	6627.34 - 6612.34	Trpp	62.19	4/1/01	<1	Well	Monitoring	USACE	
104	TMW15	--	--	718,540	3,931,961	35 30 25.8	108 35 25.2	FWDA	435-833-3257	12/9/01	Stewart Bros.	AR	6.1	82.0	2.0	76.65	PVC	15	56-71	6652.88 - 6637.88	Qal	62.89	4/1/01	<1	Well	Monitoring	USACE	
105	TMW16	--	--	718,283	3,931,924	35 30 24.9	108 35 35.5	FWDA	435-833-3257	12/5/01	Stewart Bros.	AR	6.0	142.0	2.0	142.20	PVC	15	123-138	6587.95 - 6572.95	Trpp	53.51	4/1/01	<1	Well	Monitoring	USACE	
106	TMW17	--	--	718,360	3,931,912	35 30 24.4	108 35 32.4	FWDA	435-833-3257	12/13/01	Stewart Bros.	AR	5.6	152.0	2.0	130.45	PVC	15	112-127	6605.49 - 6590.49	Trpp	60.74	4/1/01	<1	Well	Monitoring	USACE	
107	TMW18	--	--	718,319	3,932,154	35 30 32.3	108 35 33.8	FWDA	435-833-3257	12/14/01	Stewart Bros.	AR	6.0	220.0	2.0	160.70	PVC	10	150-160	6563.66 - 6553.66	Trpp	52.09	4/1/01	<1	Well	Monitoring	USACE	
108	TMW19	--	--	718,122	3,932,124	35 30 31.4	108 35 41.7	FWDA	435-833-3257	12/3/01	Stewart Bros.	AR	6.0	187.0	2.0	187.97	PVC	15	169-184	6528.57 - 6513.57	Trpp	39.64	4/1/01	<1	Well	Monitoring	USACE	
109	TMW21	--	--	718,625	3,932,554	35 30 45.0	108 35 21.3	FWDA	435-833-3257	8/9/02	CCI	HSA	8.0	72.0	2.0	61.31	PVC	10	48-58	6644.76 - 6634.76	Qal	50.19	9/2/02	<1	Well	Monitoring	USACE	
110	TMW22	--	--	719,058	3,932,576	35 30 45.4	108 35 04.1	FWDA	435-833-3257	8/8/02	CCI	HSA	8.0	77.0	2.0	65.23	PVC	10	52-62	6637.13 - 6627.13	Qal	50.92	9/2/02	<1	Well	Monitoring	USACE	
111	TMW23	--	--	718,978	3,932,775	35 30 51.9	108 35 07.1	FWDA	435-833-3257	8/6/02	CCI	HSA	8.0	72.0	2.0	59.57	PVC	10	46-56	6638.81 - 6628.81	Qal	47.78	9/2/02	<1	Well	Monitoring	USACE	
112	TMW24	--	--	719,109	3,933,020	35 30 59.7	108 35 01.6	FWDA	435-833-3257	8/3/03	CCI	HSA	8.0	75.0	2.0	57.41	PVC	10	44-54	6633.30 - 6623.30	Qal	48.76	9/2/02	<1	Well	Monitoring	USACE	
113	TMW25	--	--	718,204	3,932,810	35 30 53.6	108 35 37.7	FWDA	435-833-3257	8/1/02	CCI	HSA	8.0	74.0	2.0	55.25	PVC	10	42.5-52.5	6627.72 - 6617.72	Qal	40.32	9/2/02	<1	Well	Monitoring	USACE	
114	TMW26	--	--	718,738	3,933,344	35 31 10.5	108 35 16.0	FWDA	435-833-3257	7/30/02	CCI	HSA	8.0	64.8	2.0	58.24	PVC	10	45-55	6629.97 - 6619.97	Qal	31.66	9/2/02	<1	Well	Monitoring	USACE	
115	TMW27	--	--	717,979	3,933,657	35 31 21.3	108 35 45.8	FWDA	435-833-3257	7/26/02	CCI	HSA	8.0	102.2	2.0	73.26	PVC	10	60-70	6605.37 - 6595.37	Qal	29.02	9/2/02	0.20	Well	Monitoring	USACE	
116	TMW28	--	--	719,546	3,933,533	35 31 16.0	108 34 43.8	FWDA	435-833-3257	7/24/02	CCI	HSA	8.0	72.5	2.0	50.30	PVC	10	37-47	6649.79 - 6639.79	Qal	18.88	9/2/02	0.50	Well	Monitoring	USACE	
117	TMW29	--	--	718,667	3,932,272	35 30 35.8	108 35 19.9	FWDA	435-833-3257	8/19/02	CCI	HSA	8.0	69.0	2.0	61.65	PVC	10	49-59	6652.32 - 6642.32	Qal	56.63	9/2/02	<1	Well	Monitoring	USACE	
118	FW07	--	--	718,627	3,931,982	35 30 26.4	108 35 21.8	FWDA	435-833-3257	11/22/80	ETL	HSA	8.0	30.0	4.0	26.00	PVC	16	10-16	6699.87-6693.87	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
119	FW08	--	--	718,647	3,931,901	35 30 23.8	108 35 21.0	FWDA	435-833-3257	11/21/80	ETL	HSA	8.0	51.0	4.0	49.00	PVC	40	9-49	6704.32-6664.32	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
120	FW10	--	--	718,889	3,931,993	35 30 26.6	108 35 11.3	FWDA	435-833-3257	11/20/80	ETL	HSA	8.0	51.5	4.0	50.91	PVC	40	9-49	6698.39-6658.39	Qal	43.24	10/10/98	I.V.	Well	Monitoring	USACE	
121	FW11	--	--	718,942	3,932,143	35 30 31.4	108 35 09.1	FWDA	435-833-3257	11/20/80	ETL	HSA	8.0	31.5	4.0	28.00	PVC	20	8-28	6693.24-6673.24	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
122	FW12	--	--	718,913	3,932,226	35 30 34.1	108 35 10.2	FWDA	435-833-3257	11/22/80	ETL	HSA	8.0	31.5	4.0	29.00	PVC	20	9-29	6690.98-6670.98	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
123	FW13	--	--	718,849	3,932,248	35 30 34.9	108 35 12.7	FWDA	435-833-3257	11/22/80	ETL	HSA	8.0	33.0	4.0	30.50	PVC	20	10.5-30.5	6690.74-6670.74	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
124	FW24	--	--	716,859	3,926,312	35 27 24.0	108 36 37.3	FWDA	435-833-3257	11/13/80	ETL	HSA	8.0	25.0	4.0	23.00	PVC	15	8-23	6985.91-6970.91	Qal	Dry	7/24/01	I.V.	Well	Monitoring	USACE	
125	FW26	--	--	718,290	3,932,890	35 30 56.2	108 35 34.2	FWDA	435-833-3257	11/19/80	ETL	HSA	8.0	32.0	4.0	31.00	PVC	20	11-31	6661.17-6641.17	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
126	FW27	--	--	717,451	3,933,659	35 31 21.8	108 36 06.8	FWDA	435-833-3257	11/17/80	ETL	HSA	8.0	32.0	4.0	30.00	PVC	20	10-30	6646.17-6626.17	Qal	31.69	4/03	I.V.	Well	Monitoring	USACE	
127	FW28	--	--	717,040	3,933,683	35 31 22.9	108 36 23.1	FWDA	435-833-3257	11/18/80	ETL	HSA	8.0	33.0	4.0	33.00	PVC	23	10-33	6645.83-6622.83	Qal	Dry	4/03	I.V.	Well	Monitoring	USACE	
128	FW29	--	--	718,458	3,933,491	35 31 15.5	108 35 27.0	FWDA	435-833-3257	11/16/80	ETL	HSA	8.0	32.0	4.0	30.00	PVC	20	10-30	6659.44-6639.44	Qal	31.63	4/03	I.V.	Well	Monitoring	USACE	
129	FW31	--	--	720,777	3,929,066	35 28 50.2	108 33 59.3	FWDA	435-833-3257	11/14/80	ETL	HSA	8.0	50.0	4.0	50.00	PVC	40	10-50	6817.71-6777.71	Qal	38.70	7/24/01	I.V.	Well	Monitoring	USACE	
130	FW35	--	--	720,125	3,932,350	35 30 37.2	108 34 22.0	FWDA	435-833-3257	11/15/80	ETL	HSA	8.0	30.0	4.0	30.00	PVC	20	10-30	6699.47-6679.47	Qal	10.05	4/03	ND	Well	Monitoring	USACE	
131	FW36	--	15.17.24.4121	718,656	3,932,818	35 30 53.6	108 35 19.8	FWDA	435-833-3257	9/10/70	--	--	--	1356 12.75 8.75	16 1037 1350	--	250	1100-1350	5585.79-5335.79	Psa, Pg	29.02 0 94.25	1/18/79 7/30/90 7/26/95	--	Well	Municipal Supply	USACE	ESE designation for Wingate69 (PMC Well Id 69)	
132	FW38	--	--	715,974	3,923,977	35 26 08.9	108 37 14.6	FWDA	435-833-3257		Envirotech	HSA	8.0	--	4.0	--	PVC	--	--	7169.43	Qal	9.92	4/03	--	Well	Monitoring	USACE	
133	MW1	--	--	718,804	3,932,868	35 30 55.1	108 35 13.9	FWDA	435-833-3257	11/22/96	Envirotech	HSA	10.5	55.00	4.0	54.66	PVC	20	33.6-53.6	6651.99 - 6631.99	Qal	41.49	10/10/98	<1	Well	Monitoring	USACE	
134	MW2	--	--	718,792	3,932,885	35 30 55.6	108 35 14.3	FWDA	435-833-3257	11/25/96	Envirotech	HSA	10.5	48.00	2.0	49.33	PVC	10	37-47	6645.76 - 6635.76	Qal	38.12	10/10/98	<1	Well	Monitoring	USACE	
135	MW3	--	--	718,821	3,932,844	35 30 54.2	108 35 13.2	FWDA	435-833-3257	11/26/96	Envirotech	HSA	10.5	53.00	2.0	56.11	PVC	10	43-53	6644.42 - 6634.42	Qal	45.98	10/10/98	<1	Well	Monitoring	USACE	
136	MW18D	--	--	718,675	3,932,932	35 30 57.2	108 35 18.9	FWDA	435-833-3257	11/1/94	Envirotech	HSA	ND	ND	2.0	59.90	PVC	10	47-57	6637.04 - 6627.04	Qal	42.65	10/10/98	<1	Well	Monitoring	USACE	
137	MW18S	--	--	718,675	3,932,932	35 30 57.2	108 35 18.9	FWDA	435-833-3257	11/1/94	Envirotech	HSA	ND	ND	2.0	39.04	PVC	10	27-37	6658.17 - 6648.17	Qal	DRY	10/10/98	ND	Well	Monitoring	USACE	
138	MW20	--	--	718,633	3,932,922	35 30 56.9	108 35 20.6	FWDA	435-833-3257	11/1/94	Envirotech	HSA	ND	ND	2.0	59.40	PVC	10	47-57	6638.79 - 6628.79	Qal	44.58	10/10/98	<1	Well	Monitoring	USACE	
139	MW22D	--	--	718,676	3,933,002	35 30 59.5	108 35 18.8	FWDA	435-833-3257	11/1/94	Envirotech	HSA	8.0	ND	2.0	58.62	PVC	10	47-57	6636.55 - 6626.55	Qal	41.59	10/10/98	<1	Well	Monitoring	USACE	
140	MW22S	--	--	718,676	3,933,002	35 30 59.5	108 35 18.8	FWDA	435-833-3257	11/1/94	Envirotech	HSA	8.0	ND	2.0													

Table 3
Wells and Surface Water Bodies Within 1/4 Mile
Fort Wingate Depot Activity
Gallup, New Mexico

PMC Well ID	Owner's Well ID	NM State ID	Location (T.R.S.)	UTM East (X)	UTM North (Y)	Latitude	Longitude	Owner	Owner's Phone Number	Year Drilled	Driller	Drilling Method	Borehole Diameter (in)	Borehole Total Depth (ft)	Casing Diameter (inches)	Casing Total Depth (ft)	Material	Screen Length (ft)	Screened Interval (ft bgs) ¹	Screened Interval Elevation (ft msl)	Aquifer Formation	Depth to Water (ft.)	Date of measurement	Yield (gpm)	Description	Water Use	Agency Reporting well	Remarks
148	NA	--	--	717,281	3,924,349	35 26 19.9	108 36 22.5	FWDA	435-833-3257	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	SUR	None	USACE	Unnamed Seasonal Surface Water Body
149	NA	--	--	715,321	3,923,331	35 25 48.5	108 37 41.1	FWDA	435-833-3257	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	SUR	None	USACE	Unnamed Seasonal Surface Water Body
150	NA	--	--	715,039	3,924,240	35 26 18.2	108 37 51.4	FWDA	435-833-3257	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	SUR	None	USACE	Unnamed Seasonal Surface Water Body
151	NA	--	--	717,383	3,929,337	35 29 01.6	108 36 13.6	FWDA	435-833-3257	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	SUR	None	USACE	Unnamed Seasonal Surface Water Body

Notes:
T.R.S. Township, Range and Section
UTM: Universal Transverse Mercator
USFS.: United States Forest Service
FWDA: Fort Wingate Depot Activity
(IHS) - Indian Health Services is reporting well, but not the owner
AR: Air Rotary
HSA: Hollow Stem Augers
PVC: Polyvinyl Chloride
NA: Not Applicable
-- : No Data Available
¹ - Includes wells with factory slotted screen and uncased open rock wells
² - Elevation from USGS topographic map

EPNG: El Paso Natural Gas Company
ATSF: Atchison, Topeka and Sante Fe Railway
Hist: U.S.G.S Historical Well Survey, 1971
USGS: United States Geological Survey
NMSE: New Mexico State Engineer
BIA: Bureau of Indian Affairs
NTUA: Navajo Tribal Utility Authority
NNWD: Navajo Nation Water Department
IHS: Navajo Area Indian Health Service
USACE: United States Army Corps of Engineers
Phillip: Phillip Environmental
CCI: CCI EnviroDrilling

I: Industrial
O: Observation
D: Domestic
M: Monitoring
S: Sanitation
MUN: Municipal
F: Flowing conditions
MW: Monitoring Well
Sup: Supply Well
I.V.: Insufficient Volume
ESE: Environmental Science & Engineering

Qal: Quaternary Alluvial Deposits
Kcc: Crevasse Canyon Formation
Kg: Gallup Sandstone
Jm: Morrison Formation
Je: Entrada Sandstone
Trp: Chinle Formation
Psa: San Andres Limestone
Pg: Glorieta Sandstone
Py: Yeso Formation

Table 4
Groundwater Well Construction Details

Well ID	FWDA Parcel	Date Installed	Drilling Method	Northing ^a	Easting ^a	Ground Elevation (famsl) ^b	Measuring Point Elevation (famsl) ^b	Well Depth (ft bgs)	Boring Diameter (in)	Casing Diameter (in)	Casing Type	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (famsl)	Status	Screened Formation	Description
OB/OD Area																	
CMW02	3	08/15/1996	HSA/AR	1612193.23	2489293.13	7256.32	7258.00	43.00	8.00	2.00	PVC/PVC screen	10.0	25.0 - 35.0	7230.39-7220.39	Active	Alluvium	Silty Clay
CMW04	3	08/15/1996	AR	1612755.29	2489317.38	7249.08	7251.15	136.60	8.00	2.00	PVC/PVC screen	20.0	115.0 - 135.0	7133.30-7113.30	Active	Alluvium	Silty Clay
CMW06	3	08/12/1996	HSA	1613477.48	2489087.84	7214.13	7216.05	18.60	4.00	2.00	PVC/PVC screen	10.0	8.3 - 18.3	7204.95-7194.95	Buried	Alluvium	Silty Clay/Silty Sand
CMW07	3	10/01/1996	HSA/AR	1613481.11	2488966.19	7233.04	7235.16	65.80	8.00	2.00	PVC/PVC screen	20.0	44.0 - 64.0	7188.90-7168.90	Active	Painted Desert Member	Sandstone
CMW10	3	09/30/1996	HSA/AR	1614801.68	2488525.71	7177.40	7179.31	70.85	8.00	2.00	PVC/PVC screen	20.0	50.5 - 70.5	7126.49-7106.49	Active	Painted Desert Member	Silty Claystone
CMW14	3	09/06/1996	HSA/AR	1615835.54	2488638.31	7151.34	7153.06	94.55	9.00	2.00	PVC/PVC screen	10.0	84.2 - 94.2	7066.82-7056.82	Active	Painted Desert Member	Silty Claystone
CMW16	3	08/17/1996	HSA/AR	1618788.98	2488995.95	7082.17	7084.23	31.80	8.00	2.00	PVC/PVC screen	10.0	20.0 - 30.0	7061.51-7051.51	Buried	Painted Desert Member	Sandstone
CMW17	3	08/21/1996	HSA/AR	1615860.63	2488582.47	7143.72	7145.18	53.00	8.00	2.00	PVC/PVC screen	20.0	32.0 - 52.0	7111.15-7091.15	Active	Painted Desert Member	Silty Claystone
CMW18	3	09/28/1996	HSA/AR	1615886.04	2488504.59	7156.24	7158.24	53.00	8.00	2.00	PVC/PVC screen	20.0	32.0 - 52.0	7124.48-7104.48	Active	Painted Desert Member	Silty Claystone
CMW19	3	10/05/1996	HSA/AR	1616766.18	2488680.46	7128.11	7129.85	52.80	8.00	2.00	PVC/PVC screen	15.0	33.5 - 48.5	7093.89-7078.89	Active	Painted Desert Member	Silty Claystone
CMW20	3	08/12/1998	HSA	1613921.71	2489020.26	7193.14	7194.68	5.80	4.00	2.00	PVC/PVC screen	3.0	2.5 - 5.5	7189.83-7186.83	Damaged	Painted Desert Member	Clayey Sandstone
CMW21	3	08/10/1998	HSA/AR	1618931.48	2488996.15	7192.70	7198.19	74.50	6.00	2.00	PVC/PVC screen	10.0	57.0-67.0	7025.72-7015.72	Buried	Sonsela Member	Silty Sandstone
CMW22	3	09/04/1998	HSA/AR	1619789.75	2489133.42	7080.50	7081.94	122.00	5.50	2.00	PVC/PVC screen	20.0	96.5-116.5	7029.68-7009.68	Active	Painted Desert Member	Sandstone/Siltstone
CMW23	3	07/31/1998	HSA/AR	1621477.51	2490357.19	7033.41	7035.58	112.00	5.50	2.00	PVC/PVC screen	20.0	84.0-104.0	6945.82-6925.82	Active	Sonsela Member	Sandstone
CMW24	3	09/15/1998	HSA/AR	1618994.34	2488773.81	7098.27	7099.68	262.00	6.30	2.00	PVC/PVC screen	30.0	230.0-260.0	6864.33-6834.33	Active	Sonsela Member	Sandstone
CMW25	3	09/28/1996	HSA/AR	1622764.90	2490166.62	7005.24	7007.52	97.00	8.75	2.00	PVC/PVC screen	25.0	71.0-96.0	6930.74-6905.74	Active	Painted Desert Member	Sandstone
FW24	3	11/14/1980	HSA	1622425.99	2491311.06	6997.49	6999.19	25.00	8.00	4.00	PVC/PVC screen	15.0	33.5-48.5	6984.56-6969.56	Dry	Alluvium	Clay
FW38	3	11/19/1993	HSA	1614875.40	2488533.75	7169.43	7172.02	7.50	3.00	2.00	PVC/PVC screen	ND	ND	ND	Dry	Alluvium	ND
KMW09	3	09/27/1996	HSA/AR	1616771.44	2486173.70	7186.02	7187.93	80.40	9.00	2.00	PVC/PVC screen	10.0	60.0 - 70.0	7125.48-7115.48	Active	Mancos Formation	Silty Claystone/Silty Sandstone
KMW10	3	08/06/1996	HSA/AR	1618066.89	2487827.76	7129.35	7131.38	168.45	8.00	2.00	PVC/PVC screen	10.0	158.0 - 168.0	6970.71-6960.71	Active	Unknown	Siltstone/Sandstone
KMW11	3	09/02/1998	HSA	1618649.14	2488515.19	7106.97	7108.78	63.00	9.00	2.00	PVC/PVC screen	20.0	35.0 - 55.0	7071.60-7051.60	Active	Painted Desert Member	Silty Claystone
KMW12	3	08/17/1998	HSA/AR	1616476.04	2486128.81	7191.70	7193.08	75.00	8.75	2.00	PVC/PVC screen	20.0	53.0-73.0	7134.74-7114.74	Active	Mancos Formation	Claystone
KMW13	3	11/13/1998	HSA/AR	1617203.45	2486607.14	7167.06	7168.46	52.50	8.75	2.00	PVC/PVC screen	20.0	32.0-52.0	7131.79-7111.79	Dry	Dakota Formation	Sandstone
Northern Area																	
BGMW01	14	02/06/2012	HSA	1645977.85	2501983.61	6690.28	6692.68	33.00	8.00	2.50	PVC/PVC screen	20.0	12.5-32.5	6677.78-6657.78	Active	Alluvium	Sandy Silt
BGMW02	14	02/09/2012	HSA	1646314.67	2501276.54	6689.20	6691.99	34.00	8.00	2.50	PVC/PVC screen	20.0	13.5-33.5	6675.70-6655.70	Active	Alluvium	Silt/Sand/Clay
BGMW03	12	02/05/2012	HSA	1647012.12	2499392.83	6677.79	6680.57	29.00	8.00	2.50	PVC/PVC screen	20.0	8.5-28.5	6669.29-6649.29	Active	Alluvium	Clay
EMW01	18	07/14/2004	HSA	1643655.61	2502045.53	6716.06	6718.38	120.70	7.80	2.00	PVC/PVC screen	15.0	105.0-120.0	6610.16-6595.16	Active	Painted Desert Member	Siltstone/Claystone
EMW02	18	07/19/2004	HSA/AR	1643391.22	2502476.99	6699.94	6702.49	120.00	6.00	2.00	PVC/PVC screen	15.0	93.0-108.0	6606.14-6591.14	Active	Painted Desert Member	Siltstone/Claystone
EMW03	18	07/21/2004	HSA/AR	1643687.88	2502800.30	6698.63	6701.09	100.00	6.00	2.00	PVC/PVC screen	15.0	78.0-93.0	6619.69-6604.69	Active	Painted Desert Member	Siltstone
EMW04	18	07/23/2004	HSA/AR	1643815.18	2502419.30	6705.68	6708.30	120.0	6.00	2.00	PVC/PVC screen	15.0	100.0-115.0	6604.84-6589.84	Active	Painted Desert Member	Claystone
FW07	21	11/22/1980	HSA	1640839.18	2498075.06	6713.00	6714.90	30.50	8.00	4.00	PVC/PVC screen	20.5	10.0-30.5	6700.03-6684.03	Abandoned	Alluvium	Silty Sand
FW08	21	11/21/1980	HSA/AR	1640572.50	2498132.47	6713.00	6714.90	51.00	8.00	4.00	PVC/PVC screen	40.0	9.0-49.0	6707.16-6667.16	Abandoned	Alluvium	Silty Sand/Sand/Clay
FW10	21	11/20/1980	HSA	1640848.95	2498936.89	6706.76	6708.38	51.50	10.00	4.00	PVC/PVC screen	40.0	9.0-49.0	6698.02-6658.02	Abandoned	Alluvium	Silty Sand/Silty Clay
FW11	21	11/21/1980	HSA	1641334.02	2499124.16	6701.20	6703.50	28.00	8.00	4.00	PVC/PVC screen	20.0	8.0-28.0	6692.78-6672.78	Abandoned	Alluvium	Clayey Sand
FW12	21	11/22/1980	HSA	1641609.82	2499038.13	6700.00	6702.00	29.00	8.00	4.00	PVC/PVC screen	20.0	9.0-29.0	6690.79-6670.79	Abandoned	Alluvium	Clayey Sand
FW13	21	11/22/1980	HSA	1641688.39	2498830.01	6701.20	6702.30	30.50	8.00	4.00	PVC/PVC screen	20.0	10.5-30.5	6689.99-6669.99	Abandoned	Alluvium	Clay
FW26	7	11/19/1980	HSA	1643853.34	2497067.39	6672.20	6674.40	31.00	8.00	4.00	PVC/PVC screen	20.0	11.0-31.0	6664.00-6644.00	Dry	Alluvium	Silt/Sand/Clay
FW27	9	11/17/1980	HSA	1646461.42	2494395.93	6657.75	6656.49	32.00	8.00	4.00	PVC/PVC screen	20.0	10.0-30.0	6645.39-6625.39	Abandoned	Alluvium	Silty Sand/Silty Clay/Clay
FW28	9	11/18/1980	HSA	1646584.14	2493050.57	6656.53	6657.50	33.00	8.00	4.00	PVC/PVC screen	23.0	10.0-33.0	6645.97-6622.97	Abandoned	Alluvium	Silt/Clay
FW29	11	11/16/1980	HSA	1645804.02	2497681.98	6669.17	6670.96	32.00	8.00	4.00	PVC/PVC screen	20.0	10.0-30.0	6659.69-6639.69	Abandoned	Alluvium	Gravel/Clay
FW31	19	11/19/1980	HSA	1631192.98	2505201.31	6830.72	6832.49	50.00	8.00	4.00	PVC/PVC screen	40.0	10.0-50.0	6815.71-6775.71	Active	Alluvium	Clay
FW35	13	11/15/1980	HSA	1641888.44	2503025.94	6709.17	6711.11	30.00	8.00	4.00	PVC/PVC screen	20.0	10.0-30.0	6699.26-6679.26	Active	Alluvium	Clay
MW01	11	11/22/1996	HSA	1643726.78	2498748.62	6686.03	6685.94	55.00	10.50	2.00	PVC/PVC screen	20.0	33.6-53.6	6651.99-6631.99	Active	Alluvium	Sand/Silty Clay
MW02	11	11/25/1996	HSA	1643783.35	2498712.23	6685.78	6685.22	48.00	10.50	2.00	PVC/PVC screen	10.0	37.0-47.0	6645.76-6635.76	Active	Alluvium	Clayey Sand/Clay
MW03	11	11/26/1996	HSA	1643644.43	2498801.96	6687.50	6689.53	53.00	10.50	2.00	PVC/PVC screen	10.0	43.0-53.0	6644.42-6634.42	Active	Alluvium	Silty Sand/Clay
MW18D	11	11/01/1994	HSA	1643947.99	2498331.32	6684.94	6686.32	59.90	8.00	2.00	PVC/PVC screen	10.0	47.0-57.0	6637.04-6627.04	Active	Alluvium	ND
MW18S	11	11/01/1994	HSA	1643948.08	2498331.62	6684.67	6686.61	39.04	8.00	2.00	PVC/PVC screen	10.0	27.0-37.0	6658.17-6648.17	Dry	Alluvium	ND
MW20	11	11/01/1994	HSA	1643922.12	2498193.80	6685.34	6687.67	59.40	8.00	2.00	PVC/PVC screen	10.0	47.0-57.0	6638.79-6628.79	Active	Alluvium	ND

Table 4
Groundwater Well Construction Details

Well ID	FWDA Parcel	Date Installed	Drilling Method	Northing ^a	Easting ^a	Ground Elevation (famsl) ^b	Measuring Point Elevation (famsl) ^b	Well Depth (ft bgs)	Boring Diameter (in)	Casing Diameter (in)	Casing Type	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (famsl) ^b	Status	Screened Formation	Description
Northern Area (continued)																	
MW22D	11	11/01/1994	HSA	1644178.39	2498343.15	6682.69	6684.55	58.62	8.00	2.00	PVC/PVC screen	10.0	47.0-57.0	6636.55-6626.55	Active	Alluvium	ND
MW22S	11	11/01/1994	HSA	1644178.59	2498343.06	6682.69	6684.69	43.54	8.00	2.00	PVC/PVC screen	10.0	31.0-41.0	6651.57-6641.57	Active	Alluvium	ND
MW23	25	06/30/2011	HSA	1648792.02	2493767.75	6652.46	6654.50	134.0	8.00	2.50	PVC/PVC screen	70.0	63.5-133.5	6588.96-6518.96	Active	Alluvium	Sand/Clay
MW24	25	07/02/2011	HSA	1648746.52	2494518.24	6655.09	6657.08	66.50	8.00	2.50	PVC/PVC screen	50.0	16.0-66.0	6638.09-6588.09	Active	Alluvium	Sand/Clay
SMW01	11	07/29/1996	HSA	1645908.54	2497392.99	6668.41	6669.94	50.21	8.00	2.00	PVC/PVC screen	20.0	29.9 - 49.9	6637.86-6617.86	Active	Alluvium	Silty Sand/Sandy Clay
TMW01	21	07/31/1996	HSA	1640504.34	2498872.04	6709.79	6711.84	60.00	8.00	2.00	PVC/PVC screen	15.0	44.0 - 59.0	6666.18-6651.18	Active	Alluvium	Clay with Sand Layer
TMW02	21	07/31/1996	HSA	1641503.03	2498583.97	6703.34	6705.35	85.00	8.00	2.00	PVC/PVC screen	14.0	67.9 - 81.9	6636.06-6622.06	Active	Painted Desert Member	Sandstone
TMW03	21	07/25/1996	HSA	1641773.65	2498883.04	6700.37	6702.43	70.10	8.00	2.00	PVC/PVC screen	20.0	49.8 - 69.8	6650.86-6630.86	Active	Alluvium	Silty Clay/Clayey Sand
TMW04	21	07/26/1996	HSA	1641690.11	2499095.25	6699.00	6700.86	70.50	8.00	2.00	PVC/PVC screen	20.0	50.0 - 70.0	6649.08-6629.08	Active	Alluvium	Upper Sand/Lower Clay
TMW05	22	07/23/1998	HSA/AR	1639949.83	2498884.78	6712.64	6714.67	37.40	5.50	2.00	PVC/PVC screen	10.0	25.0-35.0	6687.69-6677.69	Abandoned	Painted Desert Member	Sandstone/Siltstone
TMW06	11	08/27/1998	HSA	1643285.82	2498783.81	6689.08	6690.63	57.00	8.00	2.00	PVC/PVC screen	10.0	45.0-55.0	6643.85-6633.85	Active	Alluvium	Sandy Silt
TMW07	11	07/24/1998	HSA/AR	1643289.14	2498772.33	6689.08	6690.47	76.00	5.50	2.00	PVC/PVC screen	10.0	65.0-75.0	6633.74-6623.74	Active	Alluvium	Sandy Silt
TMW08	11	08/29/1998	HSA	1644255.04	2498930.01	6678.55	6680.31	62.00	8.00	2.00	PVC/PVC screen	30.0	30.0-60.0	6648.43-6618.43	Active	Alluvium	Silty Sand/Clay
TMW10	11	08/20/1998	HSA	1644455.63	2498459.83	6677.74	6680.04	65.00	8.00	2.00	PVC/PVC screen	30.0	28.0-58.0	6648.86-6618.86	Active	Alluvium	Silty Sand/Clay
TMW11	6	09/09/1998	HSA	1640758.33	2497201.28	6716.16	6718.28	82.00	8.75	2.00	PVC/PVC screen	25.0	55.0-80.0	6661.24-6636.24	Active	Alluvium	Silty Gravel/Sand
TMW13	21	08/11/1998	HSA	1641150.12	2498112.40	6705.42	6707.49	72.50	8.80	2.00	PVC/PVC screen	10.0	60.7-70.7	6644.35-6634.35	Active	Alluvium	Sandy Clay/Silt
TMW14A	21	01/25/2001	AR	1640105.58	2497489.30	6721.08	6723.54	110.00	6.00	2.00	PVC/PVC screen	15.0	94.25-109.25	6627.34-6612.34	Active	Painted Desert Member	Sandstone
TMW15	21	12/09/2001	AR	1640779.84	2497787.12	6710.80	6713.89	82.00	6.00	2.00	PVC/PVC screen	15.0	56.0-71.0	6652.88-6637.88	Active	Alluvium	Silty Gravel/Sand
TMW16	6	12/05/2001	AR	1640687.46	2496941.08	6711.65	6714.15	142.00	6.00	2.00	PVC/PVC screen	15.0	123.0-138.0	6587.59-6572.95	Active	Painted Desert Member	Sandstone
TMW17	6	12/13/2001	AR	1640639.74	2497193.66	6717.40	6719.89	152.00	6.00	2.00	PVC/PVC screen	15.0	112.0-127.0	6605.49-6590.49	Active	Painted Desert Member	Sandstone
TMW18	6	12/14/2001	AR	1641437.52	2497083.23	6710.14	6713.49	220.00	6.00	2.00	PVC/PVC screen	10.0	150.0-160.0	6563.66-6553.66	Active	Painted Desert Member	Sandstone
TMW19	6	12/03/2001	AR	1641357.45	2496433.25	6697.57	6700.52	187.00	6.00	2.00	PVC/PVC screen	15.0	169.0-184.0	6528.57-6513.57	Active	Painted Desert Member	Sandstone
TMW21	21	08/09/2002	HSA	1642714.59	2498128.03	6692.75	6695.14	72.00	8.00	2.00	PVC/PVC screen	10.0	48.0-58.0	6644.76-6634.76	Active	Alluvium	Sand/Silt/Clay
TMW22	21	08/08/2002	HSA	1642741.03	2499552.37	6689.80	6691.74	77.00	8.00	2.00	PVC/PVC screen	10.0	52.0-62.0	6637.13-6627.13	Active	Alluvium	Sand/Silt/Clay
TMW23	11	08/06/2002	HSA	1643402.27	2499309.65	6685.37	6687.66	72.00	8.00	2.00	PVC/PVC screen	10.0	46.0-56.0	6638.81-6628.81	Active	Alluvium	Clay/Sand
TMW24	11	08/03/2003	HSA	1644192.07	2499766.39	6678.52	6680.42	75.00	8.00	2.00	PVC/PVC screen	10.0	44.0-54.0	6633.30-6623.30	Active	Alluvium	Silty Sand/Silt/Sand
TMW25	7	08/01/2002	HSA	1643599.42	2496775.99	6671.09	6672.88	74.00	8.00	2.00	PVC/PVC screen	10.0	42.5-52.5	6627.72-6617.72	Active	Alluvium	Silty Sand/Clay
TMW26	11	07/30/2002	HSA	1645294.52	2498581.83	6674.88	6677.71	64.80	8.00	2.00	PVC/PVC screen	10.0	45.0-55.0	6629.97-6619.97	Active	Alluvium	Silt/Sand/Clay
TMW27	9	07/26/2002	HSA	1646400.43	2496126.29	6665.45	6668.13	102.20	8.00	2.00	PVC/PVC screen	10.0	60.0-70.0	6605.37-6595.37	Active	Alluvium	Sandy Clay/Silt
TMW28	14	07/24/2002	HSA	1645827.16	2501250.48	6686.77	6689.17	72.50	8.00	2.00	PVC/PVC screen	10.0	37.0-47.0	6649.79-6639.79	Active	Alluvium	Silty Sand/Sand/Clay
TMW29	21	08/19/2002	HSA	1641786.37	2498235.92	6700.31	6702.88	69.00	8.00	2.00	PVC/PVC screen	10.0	49.0-59.0	6652.32-6642.32	Active	Alluvium	Sand/Sandy Clay
TMW30	21	11/15/2009	HSA/AR	1639957.87	2498898.99	6712.35	6714.59	51.50	6.00	2.00	PVC/PVC screen	10.0	35.0-45.0	6677.31-6667.31	Active	Painted Desert Member	Sandstone
TMW31D	21	11/16/2009	HSA/AR	1640689.53	2498931.95	6708.53	6710.44	111.50	6.00	2.00	PVC/PVC screen	30.0	77.0 - 107.0	6631.98-6601.98	Active	Painted Desert Member	Sandstone
TMW31S	21	11/17/2009	HSA/AR	1640689.53	2498931.95	6708.53	6710.20	61.00	6.00	2.00	PVC/PVC screen	10.0	50.0-60.0	6658.98-6648.98	Active	Alluvium	Silty Sand/Sand/Clay
TMW32	21	11/18/2009	HSA	1641059.71	2498559.18	6707.09	6709.31	139.10	6.00	2.00	PVC/PVC screen	20.0	117.0-137.0	6590.89-6570.89	Active	Painted Desert Member	Sandstone
TMW33	11	11/19/2009	HSA	1644035.48	2498303.75	6684.09	6686.60	60.40	6.00	2.00	PVC/PVC screen	20.0	37.0-57.0	6646.78-6626.78	Active	Alluvium	Silty Sand/Sand/Clay
TMW34	11	11/20/2009	HSA	1643993.95	2498014.09	6684.32	6687.29	57.25	6.00	2.00	PVC/PVC screen	20.0	37.0-57.0	6650.32-6630.32	Active	Alluvium	Silty Sand/Sand/Clay
TMW35	11	11/21/2009	HSA/AR	1644050.75	2498442.31	6684.14	6686.52	55.00	6.00	2.00	PVC/PVC screen	20.0	35.0-55.0	6649.26-6629.26	Active	Alluvium	Silty Sand/Sand/Clay
TMW36	21	11/22/2009	HSA/AR	1641645.74	2499049.17	6697.33	6699.04	157.00	6.00	2.00	PVC/PVC screen	20.0	132.0-152.0	6567.32-6547.32	Active	Painted Desert Member	Sandstone
TMW37	21	11/23/2009	HSA/AR	1640648.14	2498397.74	6710.51	6713.09	111.00	6.00	2.00	PVC/PVC screen	20.0	88.0-108.0	6622.88-6602.88	Active	Painted Desert Member	Sandstone
TMW38	21	09/03/2011	HSA	1641400.80	2498219.52	6704.41	6706.79	159.50	8.00	2.50	PVC/PVC screen	40.0	118.9-158.9	6585.41-6545.41	Active	Sandstone	Sandstone
TMW39S	13	07/05/2011	HSA	1640745.21	2499279.83	6706.53	6708.61	53.00	8.00	2.50	PVC/PVC screen	20.0	32.5-52.5	6674.03-6654.03	Active	Alluvium	Clay
TMW39D	13	09/07/2011	HSA	1640745.21	2499279.83	6706.53	6708.61	100.50	8.00	2.50	PVC/PVC screen	30.0	70.0-100.0	6636.53-6606.53	Active	Sandstone	Sandstone
TMW40S	21	09/20/2011	HSA	1641487.06	2498603.50	6703.81	6706.40	60.50	8.00	2.50	PVC/PVC screen	10.0	50.0-60.0	6653.81-6643.81	Active	Alluvium	Silt/Sand/Clay
TMW40D	21	09/20/2011	HSA	1641487.06	2498603.50	6703.81	6706.15	155.50	8.00	2.50	PVC/PVC screen	20.0	135.0-155.0	6568.81-6548.81	Active	Sandstone	Sandstone
TMW41	21	07/01/2011	HSA	1641113.86	2499058.48	6703.48	6705.21	66.00	8.00	2.50	PVC/PVC screen	10.0	55.5-65.5	6647.48-6637.48	Active	Alluvium	Clay with Gravel
TMW43	21	02/03/2012	HSA	1642171.46	2498570.92	6695.63	6698.63	78.5	8.00	2.50	PVC/PVC screen	20.0	58.0-78.0	6637.8-6617.8	Active	Alluvium	Sand with Gravel
TMW44	21	02/04/2012	HSA	1642323.41	2499212.51	6694.81	6697.31	64.0	8.00	2.50	PVC/PVC screen	20.0	43.5-63.5	6651.5-6631.5	Active	Alluvium	Silty Clay/Sand
TMW45	11	02/08/2012	HSA	1643187.53	2499597.72	6686.50	6689.00	59.0	8.00	2.50	PVC/PVC screen	20.0	38.5-58.5	6648.2-6628.2	Active	Alluvium	Sand/Clay

Table 4
Groundwater Well Construction Details

Well ID	FWDA Parcel	Date Installed	Drilling Method	Northing ^a	Easting ^a	Ground Elevation (famsl) ^b	Measuring Point Elevation (famsl) ^b	Well Depth (ft bgs)	Boring Diameter (in)	Casing Diameter (in)	Casing Type	Screen Length (ft)	Screened Interval (ft bgs)	Screened Interval (famsl)	Status	Screened Formation	Description
Northern Area (concluded)																	
TMW46	11	02/05/2012	HSA	1644326.04	2497404.70	6678.69	6680.98	59.0	8.00	2.50	PVC/PVC screen	20.0	38.5-58.5	6640.19-6620.19	Active	Alluvium	Sandy Clay with Gravel
TMW47	13	02/01/2012	HSA	1641475.95	2499610.93	6699.32	6701.88	103.0	8.00	2.50	PVC/PVC screen	20.0	82.5-102.5	6616.82-6596.82	Active	Alluvium	Clay/Silt
TMW48	13	09/15/2011	HSA	1640515.53	2499131.31	6707.8	6709.8	91.5	8.00	2.50	PVC/PVC screen	20.0	71.0-91.0	6636.80-6616.80	Active	Alluvium	Sand
TMW49	21	09/09/2011	HSA	1639979.77	2498578.38	6712.2	6714.7	60.0	8.00	2.50	PVC/PVC screen	20.0	40.0-60.0	6672.20-6652.20	Active	Alluvium	Sand
Wingate 89 ^c	10B	01/01/1963	ND	1647927.73	2496972.14	6663.2	6663.7	ND	ND	8.00	PVC/PVC screen	ND	ND	ND	Active	Alluvium	ND
Wingate 90 ^c	10B	01/02/1963	ND	1648335.14	2495646.34	6655.3	6656.5	102.0	ND	8.00	PVC/PVC screen	ND	ND	ND	Active	Alluvium	ND
Wingate 91 ^c	10B	01/03/1963	ND	1648705.22	2494863.70	6658.8	6659.7	ND	ND	8.00	PVC/PVC screen	ND	ND	ND	Active	Alluvium	ND

^a Horizontal Coordinate System: NM NAD83 State Plane Central

^b Vertical Coordinate System: NAVD88

^c Indicates the well is used for water level measurements; not sampled

AR = Air Rotary

FWDA = Fort Wingate Depot Activity

famsl = Feet above mean sea level

ft = Feet

bgs = Below ground surface

HSA = Hollow Stem Auger

ID = Identification

in = Inches

NA = Not applicable

NAD83 = North American Datum of 1983

NAVD88 = North American Vertical Datum of 1988

ND = No data available

NM = New Mexico

PVC = Polyvinyl Chloride