

US EPA ARCHIVE DOCUMENT

TABLES

Table 1
Soil Boring and Monitoring Well Construction Summary
Eagle Project

Well or Boring ID	Description	Northing	Easting	Ground Surface (ft MSL)	Top of Riser (ft MSL)	Screened Interval (ft MSL)	
QAL004A	Monitoring Well	5176650	431726	1448	1451.09	1403	1393
QAL004D	Monitoring Well	5176651	431727	1448	1450.94	1308	1303
QAL005A	Monitoring Well	5176753	429828	1457	1459.74	1442	1432
QAL005D	Monitoring Well	5176754	429829	1457	1459.59	1334	1329
QAL006A	Monitoring Well	5175885	433052	1421	1423.92	1406	1396
QAL006B	Monitoring Well	5175886	433051	1421	1424.33	1346	1341
QAL008A	Monitoring Well	5177916	432808	1465	1468.19	1385	1375
QAL008D	Monitoring Well	5177916	432810	1465	1467.92	1350	1345
QAL009A	Monitoring Well	5177475	433605	1455	1457.41	1355	1345
QAL009D	Monitoring Well	5177477	433606	1455	1457.35	1315	1310
QAL024A	Monitoring Well	5177560	431771	1454	1456.87	1419	1409
QAL025A	Monitoring Well	5177389	432133	1451	1454.27	1416	1406
QAL026A	Monitoring Well	5177739	432240	1458	1460.84	1423	1413
QAL027A	Monitoring Well	5177648	432414	1458	1461.36	1420	1410
QAL028A	Monitoring Well	5177779	432617	1461	1463.86	1408	1398
QAL029A	Monitoring Well	5177526	432550	1457	1460.10	1420	1410
QAL029D	Monitoring Well	5177524	432551	1460	1460.35	1391	1386
QAL030	Soil Boring	5177586	432889	1461	NA	NA	NA
QAL031D	Monitoring Well	5177744	432920	1465	1467.29	1360	1355
QAL032	Soil Boring	5177486	432403	1456	NA	NA	NA
QAL033	Soil Boring	5177744	432477	1456	NA	NA	NA
QAL034	Soil Boring	5177649	432521	1457	NA	NA	NA
QAL035	Soil Boring	5177538	432464	1456	NA	NA	NA
QAL036	Soil Boring	5177840	432765	1464	NA	NA	NA
QAL037	Soil Boring	5177881	432815	1465	NA	NA	NA
QAL038	Soil Boring	5177769	432820	1463	NA	NA	NA
QAL039	Soil Boring	5177813	432871	1465	NA	NA	NA
QAL040	Soil Boring	5177706	432878	1463	NA	NA	NA
QAL041D	Monitoring Well	5177638	432930	1463	1465.47	1368	1358
QAL042	Soil Boring	5177677	432977	1464	NA	NA	NA
QAL043B	Monitoring Well	5177589	431543	1422	1423.93	1392	1387
QAL044B	Monitoring Well	5177623	431587	1427	1430.61	1392	1387

MSL Mean sea level
NA Not applicable

Table 1: QAL Wells & Borings

Table 2
Grain Size Distribution for Quaternary Deposits
Eagle Project

Location	Depth (ft)	Geologic Description	Zone Designation	USCS Classification	Percentage Retained by Weight (%)						
					Gravel	Coarse Sand	Medium Sand	Fine Sand	Silt	Clay	Fines (Silt + Clay)
QAL038	0	Unsaturated outwash sand	A+	SP	3.5	3.2	21	70			2.4
QAL038	2		A+	SP	3.2	2.3	22	72			0.3
QAL038	4		A+	SP	0.2	0.3	14	85			0.6
QAL031	5		A+	SP	0.7	1.1	13	84			0.9
QAL041	5		A+	SP	1.5	2.1	15	79			1.8
QAL037	6		A+	SP	1.7	1.5	17	79			0.8
QAL038	6		A+	SP	1.8	1.2	12	84			1.5
QAL036	7		A+	SP	1.0	1.2	17	81			0.5
QAL039	7		A+	SP	0.8	0.5	8.1	89			1.8
QAL040	7		A+	SP	0.3	1.1	12	85			1.3
QAL042	7		A+	SP	2.4	0.6	8.3	86			2.6
QAL038	8		A+	SP	1.0	0.6	8.0	89			1.2
QAL008	10		A+	SP	3.7	0.9	12	83			0.7
QAL004*	15		A+	SP-SM	15	11	44	24			6.5
QAL041	18		A+	SP	1.7	3.0	21	72			2.7
QAL008	30		A+	SP/SP-SM	6.4	1.5	24	64			4.4
QAL009*	37		A+	SP	0.1	0.7	11	85			3.5
QAL041	37		A+	SP-SM	0.1	0.5	6.4	83			10
QAL031	44		A+	SM/SP-SM	0.0	0.0	0.2	86			14
QAL036	60		A+	SP	0.0	0.0	2.9	96			1.1
Average			A+		2.3	1.6	14	79			3.0
QAL008*	23	Saturated outwash sand (upper zone)	A	SP	0.0	0.3	19	79			1.4
QAL004*	52		A/B	SM	0.1	0.9	3.1	80			16
QAL036	80		A	SM	0.0	0.0	0.3	51	46	2.8	49
QAL009*	102		A	SP/SP-SM	0.0	0.0	1.4	94			4.3
Average			A		0.0	0.3	6.9	77			16
QAL041	55	Transitional fine sand, silt and clay	B	SM	0.0	0.0	0.2	78	20	1.8	22
QAL029	55		B	CH	0.0	0.0	0.3	3.1	69	28	97
QAL008*	71		B	SP	0.0	0.0	0.2	96			3.8
QAL005*	75		B	SM	0.0	0.0	0.0	74	25	0.5	26
QAL008*	84		B	ML	0.0	0.0	0.1	16	77	7.0	84
QAL036	87		B	ML	0.0	0.0	0.3	21	73	5.5	79
QAL008*	88		B	SP-SM	0.0	0.0	0.7	90			9.6
QAL031	61		B	ML/CL-ML	0.0	0.0	0.4	8.9	85	5.7	91
QAL031	79		B	SM	1.5	0.4	4.0	66	23	5.0	28
Average			B		0.2	0.1	0.8	49			50
QAL036	91	Lacustrine lean clay	C	CL-ML	0.0	0.1	0.3	4.3	68	27	95
QAL004*	98-100		C	CL-ML	0.0	0.0	0.0	0.2	93	7.0	100
QAL008*	107-109		C	CL	0.0	0.0	0.2	2.7	59	38	97
Average			C		0.0	0.0	0.2	2.4			97
QAL041	80	Lower outwash sand (lower zone)	D**	SP	17	8.3	25	50			2.4
QAL036	103		D	SP	16	3.5	18	59			2.5
QAL041	105		D	SP	0.0	0.0	1.3	94			4.4
QAL031	106		D	SP-SM	0.0	0.3	11	80	7.7	1.5	9.2
QAL031	111		D	SM	0.2	0.4	1.6	41	51	6.5	57
QAL008*	117		D	SP	0.4	0.2	22	75			3.4
QAL005*	121		D	SP	26	12	28	33			2.3
QAL004*	142		D	SM	2.6	7.1	18	55			18
QAL009*	145		D	SP/SP-SM	0.3	4.5	32	58			5.2
Average			D		6.9	3.8	17	60			12
QAL036	120	Clayey glacial till	E	SC	33	11	15	9.8	12	19	31
QAL031	123		E	SM-SC	42	11	14	7.6	11	15	26
QAL009*	157		E	CH	1.2	0.1	1.0	5.3	14	78	92
QAL009*	163		E	SM	0.0	0.2	17	58			26
QAL009*	185		E	SM	0.0	0.0	0.2	71	22	6.2	28
QAL009*	238		E	ML	0.0	0.0	0.6	11	83	6.4	89
QAL009*	254		E	SC	29	8.5	12	27	15	9.2	24
Average			E		15	4.5	8.4	27			45

*Data from EBS (NJC 2005a)

**Zone unsaturated at this location

Table 2: Grain Size Distribution

Table 3
Soil Geotechnical Data for Location QAL029
Eagle Project

Soil Geotechnical Data for QAL029	
Atterberg Limits	
Liquid Limit	32.6
Plastic Limit	19.8
Plasticity Index	12.8
Dry Density (pcf)	94.0
Water Content (%)	29.5
K @ 20°C (cm/s)	8.80E-08
K @ 20°C (ft/d)	2.49E-04

K permeability
pcf pounds per cubic foot

Table 4
Discrete Water Elevation Measurements
(May 2004 - August 2005)
Eagle Project

Location	Water Elevation (ft MSL)					
	5/11/04	8/26/04	10/27/04	3/15/05	5/4/05	8/30/05
WLD001	1428.96	1428.87	1428.37	1428.80	1428.38	1428.26
WLD002	1430.73	1430.58	1430.77	1430.67	1430.79	1430.26
WLD003	1433.84	1433.61	1433.75	1433.62	1433.90	1432.45
WLD004	1446.50	1446.14	1446.40	1446.21	1447.48	1445.02
WLD005	1451.23	1450.98	1451.09	1450.94	1451.23	1449.66
WLD006	1455.51	1455.32	1455.38	1454.97	1455.50	1453.32
WLD007	1450.70	1450.51	1450.54	1450.20	1450.69	1448.76
WLD008	1453.59	1453.32	1453.55	1453.40	1453.64	1452.06
WLD009	1457.09	1457.01	1457.12	1456.82	1457.07	1455.19
WLD010	1447.49	1447.25	1447.48	1447.23	1447.50	1445.14
WLD011	1446.80	1445.91	1446.43	1445.97	1446.69	1444.29
WLD012	1446.22	1445.77	1445.99	1446.03	1446.18	1444.35
WLD013	1445.00	1444.02	1444.75	1444.83	1445.98	1442.46
WLD014	1441.64	1441.20	1441.45	1441.24	1441.58	1440.18
WLD015	1428.98	1428.90	1429.06	1428.91	1429.13	1428.14
WLD016	1428.44	1428.36	1428.41	1428.40	1428.56	1427.63
WLD017	1423.64	1422.98	1423.64	1423.29	1423.63	1421.76
WLD018	1423.13	1422.94	1423.10	1423.03	1423.16	1421.17
WLD019	1421.02	NM	1421.08	1420.47	1420.95	1418.37
WLD020	1420.17	1419.79	1420.18	1419.96	1420.24	1417.34
WLD021	1416.04	1415.36	1416.38	1415.19	1416.19	1414.25
WLD022	1422.61	1422.55	1422.63	1422.11	1422.58	1422.58
WLD023	1413.59	1413.59	NM	1413.60	1413.58	1413.16
QAL001A	1410.94	1412.79	1412.72	1412.00	1411.61	1411.97
QAL001D	1405.17	1407.90	1407.66*	1406.47	1406.38	1406.89
QAL002A	1433.86	1435.23	1434.76	1433.35	1433.54	1434.11
QAL002D	1391.91	1391.95	1395.92	1395.30	1395.21	1395.45
QAL003A	1428.08	1426.58	1425.99*	1425.15	1427.55	1425.37
QAL003B	1414.19	1413.12	1412.93*	1412.45	1413.93	1412.21
QAL004A	1426.44	1425.64	1425.21	1424.62	1426.16	1425.19
QAL004D	1434.41	1434.14	1434.02	1433.72	1434.36	1433.05
QAL005A	1455.70	1454.37	1454.18	1453.34	1455.54	1452.56
QAL005D	1453.96	1453.19	1452.94	1452.35	1453.68	1451.52
QAL006A	1416.49	1415.13	1414.60	1414.02	1415.96	1413.82
QAL006B	1401.47	1400.94	1400.23	1398.78	1400.11	1399.69
QAL007A	NM	NM	1430.17	1428.74	1428.99	1429.39
QAL007D	NM	NM	1438.35	1437.11	1438.15	1437.74
QAL008A	NM	NM	1390.43	1389.59	1389.26	1389.39
QAL008D	NM	NM	1354.07	1353.72	1353.82	1353.92

Table 4: Water Elevations

Table 4
Discrete Water Elevation Measurements
(May 2004 - August 2005)
Eagle Project

Location	Water Elevation (ft MSL)					
	5/11/04	8/26/04	10/27/04	3/15/05	5/4/05	8/30/05
QAL009A	NM	NM	1354.99	1354.57	1354.02	1354.43
QAL009D	NM	NM	1354.84	1354.47	1354.32	1354.45
QAL010A	NM	NM	1424.54	1422.77	1424.89	1423.92
QAL015	NM	1292.56	1292.69	1292.90	1292.91	1292.49
QAL016	NM	1274.80	1274.20	1273.73	1273.69	1274.32
QAL017	NM	1251.00	1251.37	1251.40	1251.17	1250.39
QAL018	NM	1250.22	1250.24	1250.37	1250.41	1249.13
QAL019	NM	1285.55	1285.41	1285.35	1285.39	1285.18
QAL020	NM	1335.61	1335.65	1336.10	1335.71	1335.32
QAL021	NM	1389.30	1389.33	1389.22	1389.28	1389.21
QAL022	NM	1298.36	1298.44	1298.40	1298.42	1298.34
QAL023B	NM	1420.57	1418.52	NM	1418.16	1417.96
QAL024A	NM	NM	NM	NM	NM	1419.57
QAL025A	NM	NM	NM	NM	NM	1419.24
QAL026A	NM	NM	NM	NM	NM	1418.68
QAL027A	NM	NM	NM	NM	NM	1416.05
QAL028A	NM	NM	NM	NM	NM	1405.05
QAL029A	NM	NM	NM	NM	NM	1419.21
QAL029D	NM	NM	NM	NM	NM	1408.97
QAL031D	NM	NM	NM	NM	NM	1371.39
QAL041D	NM	NM	NM	NM	NM	1365.39
QAL043B	NM	NM	NM	NM	NM	1417.87
QAL044B	NM	NM	NM	NM	NM	1417.86
YDRM002	NM	1412.21	1412.65	1412.33	NM	1411.98
STRM002	NM	1400.91	NM	1403.19	1400.09	1400.36

NM Not measured
MSL Mean sea level
* Measured on 11/10/04

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL008
Eagle Project

Parameter	Units	QAL008A					QAL008D				
		Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		11/3/04	12/28/04	2/25/05	4/27/05	8/24/05	11/3/04	12/28/04	2/25/05	4/27/05	8/24/05
Field Parameters											
Temperature	°C	7.4	5.8	6.4	7.3	7.8	6.8	7.3	6.2	6.7	8.5
Specific Conductance	µmhos/ cm @ 25°C	70	64	65	60	62	121	121	107	88	100
pH	SU	9.2	9.1	9.2	9.4	9.1	8.4	8.0	8.3	8.6	8.6
D.O.	ppm	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Ferrous Iron	mg/L	NM	NM	NM	NM	<0.1	NM	NM	NM	NM	<0.01
Metals/Inorganics											
Aluminum, Dissolved	µg/L	<100	<100	<50	<50	<50	<100	<100	<50	<50	<50
Antimony, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic, Dissolved	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	3.2	<2.0	3.9	3.0	3.7
Barium, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Beryllium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron, Dissolved	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium, Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50
Chromium, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Copper, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iron, Dissolved	µg/L	29	<20	<20	<20	<20	<20	55	<20	56	<20
Lead, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lithium, Dissolved	µg/L	<10	<10	<10	<10	<8.0	<10	<10	<10	<10	<8.0
Manganese, Dissolved	µg/L	<20	<20	<20	<20	<20	39	58	<20	<20	<20
Mercury, Dissolved	ng/L	0.808 a,s	0.346 s	0.394	0.451 s	0.110 B,s	1.340 a	0.643	0.704	0.620 s	0.240
Molybdenum, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel, Dissolved	µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Selenium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver, Dissolved	µg/L	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20
Strontium, Dissolved	µg/L	NM	NM	NM	NM	<50	NM	NM	NM	NM	<50
Zinc, Dissolved	µg/L	<10	<10	<10	52	<10	<10	<10	<10	12	<10

Table 5: QAL008

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL008
Eagle Project

Parameter	Units	QAL008A					QAL008D				
		Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		11/3/04	12/28/04	2/25/05	4/27/05	8/24/05	11/3/04	12/28/04	2/25/05	4/27/05	8/24/05
Major Anions											
Alkalinity, Bicarbonate	mg/L	66 a	28	30	31	21	66 a	53	47	50	52
Alkalinity, Carbonate	mg/L	<2.0	<2.0	<2.0	<2.0	6.1	<2.0	<2.0	<2.0	<2.0	<2.0
Alkalinity, Total	mg/L	NM	NM	NM	NM	27	NM	NM	NM	NM	52
Chloride	mg/L	3.8	<1.0	1.0	<1.0	3.8	6.3	1.5	1.7	2.5	61
Fluoride	mg/L	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	0.15	<0.10
Nitrogen, Ammonia	mg/L	NM	NM	NM	NM	<0.020	NM	NM	NM	NM	<0.020
Nitrogen, Nitrate	mg/L	0.12	0.12	0.11	0.10	0.079	<0.05	<0.05	0.05	0.06	0.053
Phosphorus, Total	mg/L	NM	NM	NM	NM	<0.0100	NM	NM	NM	NM	<0.0100
Sulfate	mg/L	5.3	<5.0	<5.0	<5.0	12	11	8.7	7.4	7.9	6.0
Sulfide	mg/L	NM	NM	NM	NM	<1.0	NM	NM	NM	NM	<1.0
Major Cations											
Calcium, Dissolved	mg/L	8.7	8.8	9.6	9.8	8.2	15	16	14	14	13
Magnesium, Dissolved	mg/L	1.4	1.4	1.5	1.5	1.3	2.9	3.0	2.8	2.9	2.8
Potassium, Dissolved	mg/L	0.82	0.64	<0.50	0.65	0.72	1.8	1.8	0.81	1.2	1.0
Sodium, Dissolved	mg/L	1.3	0.70	0.76	0.98	0.57	2.9	3.3	2.4	2.1	1.3 e
General Chemistry											
Hardness, (calculated) as CaCO3	mg/L	27	28	30	31	26	49	52	46	47	44
Residue, Dissolved @ 180°C	mg/L	54	50 a	<50	<50	<50	84	146 a	50	90	<50
Tritium	TU	9.08	NM	NM	NM	NM	12.6	NM	NM	NM	NM

a Estimated value. Duplicate precision for this parameter exceeded quality control limit.

B Estimated value because sample result is above the method detection limit of 0.10 ng/L but below the reporting limit of 0.25 ng/L.

e Estimated value. The laboratory statement of data qualifications indicates that a quality control limit for this parameter was exceeded.

NM Not measured.

s Potential false positive value. Compound present in blank sample.

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL009
Eagle Project

Parameter	Units	QAL009A					QAL009D				
		Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		10/20/04	12/28/04	2/25/05	4/27/05	8/24/05	11/3/04	12/28/04	2/25/05	4/28/05	8/16/05
Field Parameters											
Temperature	°C	7.3	5.4	5.8	7.0	8.7	7.4	5.6	5.2	7.1	8.5
Specific Conductance	µmhos/ cm @ 25°C	101	101	93	80	70	133	132	134	68	136
pH	SU	8.4	8.8	9.1	9.0	8.8	8.5	8.1	8.5	8.6	8.5
D.O.	ppm	NM	NM	NM	NM	NM	0.02	NM	NM	0.4	0.2
Ferrous Iron	mg/L	NM	NM	NM	NM	<0.1	NM	NM	NM	<0.1	<0.1
Metals/Inorganics											
Aluminum, Dissolved	µg/L	<100	<100	<50	<50	<50	<100	<100	<50	<50	<50
Antimony, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic, Dissolved	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	2.3	<2.0
Barium, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Beryllium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron, Dissolved	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium, Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50
Chromium, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Copper, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iron, Dissolved	µg/L	<20	<20	<20	<20	<20	72	34	<20	<20	<20
Lead, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lithium, Dissolved	µg/L	<10	<10	<10	<10	<8.0	<10	<10	<10	<10	<8.0
Manganese, Dissolved	µg/L	<20	<20	<20	<20	<20	21	<20	<20	<20	<20
Mercury, Dissolved	ng/L	1.140 a	1.370	0.476	0.568 s	0.110 B,s	0.100 a, U	0.545	0.617	0.125 B	0.450
Molybdenum, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel, Dissolved	µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Selenium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver, Dissolved	µg/L	<0.2	<0.2	<0.2	<0.2	<0.20	1.1	<0.2	<0.2	<0.2	<0.20
Strontium, Dissolved	µg/L	NM	NM	NM	NM	<50	NM	NM	NM	NM	<50
Zinc, Dissolved	µg/L	12	10	14	<10	<10	<10	<10	<10	<10	<10

Table 5: QAL009

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL009
Eagle Project

Parameter	Units	QAL009A					QAL009D				
		Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff	Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		10/20/04	12/28/04	2/25/05	4/27/05	8/24/05	11/3/04	12/28/04	2/25/05	4/28/05	8/16/05
Major Anions											
Alkalinity, Bicarbonate	mg/L	54 a	49	46	52	44	66 a	66	66	67	62
Alkalinity, Carbonate	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Alkalinity, Total	mg/L	NM	NM	NM	NM	45	NM	NM	NM	NM	62
Chloride	mg/L	5.3	<1.0	<1.0	<1.0	14	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	0.14	0.12	0.20	<0.10
Nitrogen, Ammonia	mg/L	NM	NM	NM	NM	<0.020	NM	NM	NM	NM	<0.020
Nitrogen, Nitrate	mg/L	0.14	0.19	0.16	0.20	0.22	<0.05	<0.05	<0.05	<0.05	<0.050
Phosphorus, Total	mg/L	NM	NM	NM	NM	<0.0100	NM	NM	NM	NM	0.0121
Sulfate	mg/L	12	14	<5.0	<5.0	<5.0 e	<5.0	<5.0	<5.0	<5.0	4.3
Sulfide	mg/L	NM	NM	NM	NM	<1.0	NM	NM	NM	NM	<1.0
Major Cations											
Calcium, Dissolved	mg/L	15	14	14	14	14	18	18	18	19	18
Magnesium, Dissolved	mg/L	2.4	2.3	2.4	2.4	2.3	4.0	4.2	4.2	4.2	4.0
Potassium, Dissolved	mg/L	1.4	1.5	0.64	0.93	0.55	0.90	1.0	0.93	0.84	0.90
Sodium, Dissolved	mg/L	0.79	0.96	0.64	0.95	0.64	2.5	2.6	2.7	2.6	2.7
General Chemistry											
Hardness, (calculated) as CaCO3	mg/L	47	44	45	45	44	61	62	62	65	61
Residue, Dissolved @ 180°C	mg/L	116	52 a	50	<50	<50	104	130 a	74	58	74
Tritium	TU	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

- a Estimated value. Duplicate precision for this parameter exceeded quality control limit.
- B Estimated value because sample result is above the method detection limit of 0.10 ng/L but below the reporting limit of 0.25 ng/L.
- e Estimated value. The laboratory statement of data qualifications indicates that a quality control limit for this parameter was exceeded.
- NM Not measured.
- s Potential false positive value. Compound present in blank sample.
- U Result was below the reporting limit and reported at the method detection limit.

Table 5: QAL009

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL031
Eagle Project

Parameter	Units	QAL031D
		Summer Baseflow
		8/24/05
Field Parameters		
Temperature	°C	7.8
Specific Conductance	µmhos/ cm @ 25°C	87
pH	SU	8.9
D.O.	ppm	NM
Ferrous Iron	mg/L	<0.1
Metals/Inorganics		
Aluminum, Dissolved	µg/L	<50
Antimony, Dissolved	µg/L	<5.0
Arsenic, Dissolved	µg/L	<2.0
Barium, Dissolved	µg/L	<20
Beryllium, Dissolved	µg/L	<1.0
Boron, Dissolved	µg/L	<100
Cadmium, Dissolved	µg/L	<0.50
Chromium, Dissolved	µg/L	<5.0
Cobalt, Dissolved	µg/L	<10
Copper, Dissolved	µg/L	<5.0
Iron, Dissolved	µg/L	<20
Lead, Dissolved	µg/L	<1.0
Lithium, Dissolved	µg/L	<8.0
Manganese, Dissolved	µg/L	<20
Mercury, Dissolved	ng/L	0.120 B,s
Molybdenum, Dissolved	µg/L	<10
Nickel, Dissolved	µg/L	<25
Selenium, Dissolved	µg/L	<1.0
Silver, Dissolved	µg/L	<0.20
Strontium, Dissolved	µg/L	<50
Zinc, Dissolved	µg/L	<10

Table 5: QAL031

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL031
Eagle Project

Parameter	Units	QAL031D
		Summer Baseflow
		8/24/05
Major Anions		
Alkalinity, Bicarbonate	mg/L	40
Alkalinity, Carbonate	mg/L	2.6
Alkalinity, Total	mg/L	43
Chloride	mg/L	12
Fluoride	mg/L	<0.10
Nitrogen, Ammonia	mg/L	<0.020
Nitrogen, Nitrate	mg/L	0.088
Phosphorus, Total	mg/L	<0.0100
Sulfate	mg/L	<5.0
Sulfide	mg/L	<1.0
Major Cations		
Calcium, Dissolved	mg/L	12
Magnesium, Dissolved	mg/L	2.4
Potassium, Dissolved	mg/L	0.72
Sodium, Dissolved	mg/L	0.96
General Chemistry		
Hardness, (calculated) as CaCO3	mg/L	40
Residue, Dissolved @ 180°C	mg/L	<50
Tritium	TU	NM

- B Estimated value because sample result is above the method detection limit of 0.10 ng/L but below the reporting limit of 0.25 ng/L.
- s Potential false positive value. Compound present in blank sample.

FIGURES

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL004
Eagle Project

Parameter	Units	QAL004A								QAL004D							
		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		4/14/04	8/17/04	9/21/04	10/19/04	12/15/04	2/24/05	4/27/05	8/17/05	4/14/04	8/17/04	9/21/04	10/19/04	12/15/04	2/25/05	4/27/05	8/17/05
Field Parameters																	
Temperature	°C	7.1	7.2	7.2	7.0	7.0	7.2	7.1	7.3	7.5	7.6	7.7	7.4	7.4	7.3	7.5	7.5
Specific Conductance	µmhos/ cm @ 25°C	90	94	92	90	91	84	85	78	155	156	155	156	154	151	151	157
pH	SU	8.9	9.1	9.1	9.0	9.1	9.1	9.6	8.5	8.6	7.9	8.4	8.2	8.5	8.5	8.9	8.4
D.O.	ppm	5	7	5	6	6	5	5	4	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.05
Ferrous Iron	mg/L	0.15	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.15	0.15	0.2	0.1	0.1	0.2	0.2	0.2
Metals/Inorganics																	
Aluminum, Dissolved	µg/L	<100	<100	<100	<100	<100	<50	<50	<50	<100	<100	<100	<100	<100	<50	<50	<50
Antimony, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic, Dissolved	µg/L	4.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	8.4	8.5	8.7	8.7	7.6	9.8	9.4	8.6
Barium, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Beryllium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron, Dissolved	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium, Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50
Chromium, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Copper, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iron, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	100	100	110	110	110	110	99	100
Lead, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lithium, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<8.0	<10	<10	<10	<10	<10	<10	<10	<8.0
Manganese, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	52	53	55	56	54	54	58	54
Mercury, Dissolved	ng/L	0.267	0.100 U	0.209 B,s	0.344 a,s	0.194 B,s	0.191 B,s	0.100 U	0.100 U	0.322	0.100 U	0.293 s	0.179 a,B,s	0.190 B,s	0.181 B,s	0.100 U	0.170 B,s
Molybdenum, Dissolved	µg/L	40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel, Dissolved	µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Selenium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver, Dissolved	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
Strontium, Dissolved	µg/L	NM	NM	NM	NM	NM	NM	NM	<50	NM	NM	NM	NM	NM	NM	NM	56
Zinc, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Table 5: QAL004

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL004
Eagle Project

Parameter	Units	QAL004A								QAL004D							
		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		4/14/04	8/17/04	9/21/04	10/19/04	12/15/04	2/24/05	4/27/05	8/17/05	4/14/04	8/17/04	9/21/04	10/19/04	12/15/04	2/25/05	4/27/05	8/17/05
Major Anions																	
Alkalinity, Bicarbonate	mg/L	50	44	53	45 a	46	42	44	42	89	97	79	84 a	80	87	81	78
Alkalinity, Carbonate	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Alkalinity, Total	mg/L	NM	NM	NM	NM	NM	NM	NM	42	NM	NM	NM	NM	NM	NM	NM	78
Chloride	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	0.56	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	1.9
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.20	<0.10
Nitrogen, Ammonia	mg/L	NM	NM	NM	NM	NM	NM	NM	<0.020	NM	NM	NM	NM	NM	NM	NM	0.095
Nitrogen, Nitrate	mg/L	0.08	0.21	0.16	0.13	0.12	0.18	0.19	0.20	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.050
Phosphorus, Total	mg/L	NM	NM	NM	NM	NM	NM	NM	0.0112	NM	NM	NM	NM	NM	NM	NM	0.0423
Sulfate	mg/L	<5.0	<5.0	9.3	<5.0	<5.0	<5.0	<5.0	3.5	<5.0	<0.05	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Sulfide	mg/L	NM	NM	NM	NM	NM	NM	NM	<1.0	NM	NM	NM	NM	NM	NM	NM	<1.0
Major Cations																	
Calcium, Dissolved	mg/L	12	14	14	14	14	13	13	12	25	23	24	26	25	25	25	23
Magnesium, Dissolved	mg/L	2.1	2.3	2.4	2.5	2.3	2.1	2.3	2.2	3.2	3.0	3.1	3.3	3.1	3.2	3.3	3.1
Potassium, Dissolved	mg/L	0.73	<0.50	0.62	0.55	0.57	0.52	0.54	0.60	1.3	0.81	1.0	0.79	0.95	0.88	0.93	0.91
Sodium, Dissolved	mg/L	1.8	0.66	0.97	0.63	0.86	0.80	0.87	0.79	2.8	2.0	2.1	1.9	2.1	2.2	2.2	1.9
General Chemistry																	
Hardness, (calculated) as CaCO3	mg/L	39	44	45	45	44	41	42	39	76	70	73	79	75	76	76	70
Residue, Dissolved @ 180°C	mg/L	62	72	72	60	<50 a	<50	60	50	84	104	118	138	<50 a	81	104	104
Tritium	TU	NM	NM	NM	9.08	NM	NM	NM	NM	NM	NM	NM	<0.8	NM	NM	NM	NM

- a Estimated value. Duplicate precision for this parameter exceeded quality control limit.
B Estimated value because sample result is above the method detection limit of 0.10 ng/L but below the reporting limit of 0.25 ng/L.
NM Not measured.
s Potential false positive value. Compound present in blank sample.
U Result was below the reporting limit and reported at the method detection limit.

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL005
Eagle Project

Parameter	Units	QAL005A								QAL005D							
		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		4/15/04	8/17/04	10/6/04	10/20/04	12/15/04	2/24/05	4/26/05	8/17/05	4/15/04	8/17/04	9/16/04	10/20/04	12/15/04	2/23/05	4/26/05	8/17/05
Field Parameters																	
Temperature	°C	6.6	7.1	7.7	7.7	7.9	7.2	6.6	7.4	7.6	7.8	7.9	7.7	7.6	7.5	7.6	7.9
Specific Conductance	µmhos/ cm @ 25°C	22	18	18	18	17	17	16	17	169	163	163	168	166	165	85	101
pH	SU	7.1	5.6	5.4	5.5	5.5	5.5	5.6	5.5	8.0	7.8	8.2	8.0	8.0	8.0	8.3	7.7
D.O.	ppm	2	2	2	1.5	1.5	2	1.5	3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.6	0.7
Ferrous Iron	mg/L	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.4	0.7	0.8	1.0	0.7	1.0	0.6	1.0
Metals/Inorganics																	
Aluminum, Dissolved	µg/L	<100	<100	<100	<100	<100	<50	<50	<50	<100	<100	<100	<100	<100	<50	<50	<50
Antimony, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic, Dissolved	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	3.7	3.4	3.6	3.8	3.7	3.3
Barium, Dissolved	µg/L	27	<20	<20	21	20	23	<20	<20	<20	28	30	33	31	32	30	28
Beryllium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron, Dissolved	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium, Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50
Chromium, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Copper, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iron, Dissolved	µg/L	240	350	380	350	420	240	120	200	540	710	790	720	740	740	670	670
Lead, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lithium, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<8.0	<10	<10	<10	<10	<10	<10	<10	<8.0
Manganese, Dissolved	µg/L	140	24	<20	<20	<20	<20	<20	<20	180	200	210	190	200	210	200	190
Mercury, Dissolved	ng/L	0.274	0.100 U	0.277 s	0.103 a,B,s	0.253 s	0.182 B,s	0.187 B,s	0.190 B,s	0.340	0.100 U	0.252 s	0.126 a,B,s	0.114 B,s	0.208 B,s	0.100 U	0.100 U
Molybdenum, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel, Dissolved	µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Selenium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver, Dissolved	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
Strontium, Dissolved	µg/L	NM	NM	NM	NM	NM	NM	NM	<50	NM	NM	NM	NM	NM	NM	NM	<50
Zinc, Dissolved	µg/L	<10	13	<10	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	<10	<10	<10

Table 5: QAL005

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL005
Eagle Project

Parameter	Units	QAL005A								QAL005D							
		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		4/15/04	8/17/04	10/6/04	10/20/04	12/15/04	2/24/05	4/26/05	8/17/05	4/15/04	8/17/04	9/16/04	10/20/04	12/15/04	2/23/05	4/26/05	8/17/05
Major Anions																	
Alkalinity, Bicarbonate	mg/L	6.5	4.7	6.1	6.9 a	<2.0	4.5	2.8	2.4	96	96	86	93 a	89	110	86	85
Alkalinity, Carbonate	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Alkalinity, Total	mg/L	NM	NM	NM	NM	NM	NM	NM	2.4	NM	NM	NM	NM	NM	NM	NM	85
Chloride	mg/L	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	1.4	<1.0	<1.0	<1.0	1.3	<1.0	<1.0
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10
Nitrogen, Ammonia	mg/L	NM	NM	NM	NM	NM	NM	NM	<0.020	NM	NM	NM	NM	NM	NM	NM	0.068
Nitrogen, Nitrate	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05 b	<0.050	<0.05	<0.05	0.16	<0.05	<0.05	<0.05	<0.05 b	<0.050
Phosphorus, Total	mg/L	NM	NM	NM	NM	NM	NM	NM	<0.0100	NM	NM	NM	NM	NM	NM	NM	0.0354
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2.3	<5.0	<5.0	6.1	<5.0	<5.0	<5.0	<5.0	<5.0
Sulfide	mg/L	NM	NM	NM	NM	NM	NM	NM	<1.0	NM	NM	NM	NM	NM	NM	NM	<1.0
Major Cations																	
Calcium, Dissolved	mg/L	1.7	1.2	1.1	1.2	1.2	1.3	1.3	1.0	28	27	29	27	28	28	28	26
Magnesium, Dissolved	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	2.9	3.2	2.8	2.9	2.9	2.9	2.8
Potassium, Dissolved	mg/L	0.73	0.69	0.71	0.66	0.81	0.68	0.60	0.62	1.0	0.53	0.65	0.66	0.61	0.57	0.58	0.67
Sodium, Dissolved	mg/L	0.89	<0.50	0.89	0.78	0.66	0.58	0.69	0.63	1.5	1.4	1.3	1.2	1.4	1.5	1.4	1.3
General Chemistry																	
Hardness, (calculated) as CaCO3	mg/L	5	4	4	4	4	4	4	4	84	79	86	79	82	82	82	76
Residue, Dissolved @ 180°C	mg/L	<50	<50	<50	<50	52 a	<50	<50	<20	104	114	122	124	96 a	92	94	110
Tritium	TU	NM	NM	NM	8.98	NM	NM	NM	NM	NM	NM	NM	7.07	NM	NM	NM	NM

- a Estimated value. Duplicate precision for this parameter exceeded quality control limit.
- b Estimated value. Sample received after EPA-established hold time expired.
- B Estimated value because sample result is above the method detection limit of 0.10 ng/L but below the reporting limit of 0.25 ng/L.
- NM Not measured.
- s Potential false positive value. Compound present in blank sample.
- U Result was below the reporting limit and reported at the method detection limit.

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL006
Eagle Project

Parameter	Units	QAL006A								QAL006B							
		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		4/28/04	8/17/04	9/16/04	10/18/04	12/28/04	2/22/05	4/27/05	8/17/05	4/28/04	8/17/04	10/6/04	10/18/04	12/28/04	2/22/05	4/27/05	8/17/05
Field Parameters																	
Temperature	°C	5.9	7.8	8.5	9.0	8.1	7.1	6.1	8.4	8.0	8.2	8.1	7.8	7.9	7.9	7.8	8.4
Specific Conductance	µmhos/ cm @ 25°C	19	16	16	15	15	18	16	16	198	167	177	179	172	169	168	176
pH	SU	6.1	5.4	5.5	5.4	5.4	5.3	5.3	4.4	6.9	6.9	6.9	6.9	6.9	7.0	7.3	6.9
D.O.	ppm	4	7	5	>1	2.5	2	4	3	<0.001	<0.001	<0.001	<0.001	<0.05	<0.001	<0.1	<0.05
Ferrous Iron	mg/L	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	12	15	30	18	16	27	16	15
Metals/Inorganics																	
Aluminum, Dissolved	µg/L	<100	<100	<100	<100	100	150	120	72	<100	<100	<100	<100	<100	67	<50	67
Antimony, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic, Dissolved	µg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Barium, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Beryllium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron, Dissolved	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Cadmium, Dissolved	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50
Chromium, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Copper, Dissolved	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iron, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	16,500	15,100	14,400	15,200	13,400	14,300	13,800	13,000
Lead, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lithium, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<8.0	<10	<10	<10	<10	<10	<10	<10	<8.0
Manganese, Dissolved	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	150	140	150	150	130	140	140	130
Mercury, Dissolved	ng/L	0.628	0.494 s	0.551	0.546 a,s	0.511	0.420	0.463 s	0.420	0.443	0.454 s	0.250 s	0.147 a,B,s	0.290 s	0.159 B,s	0.100 U	0.100 U
Molybdenum, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nickel, Dissolved	µg/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Selenium, Dissolved	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver, Dissolved	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	0.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20
Strontium, Dissolved	µg/L	NM	NM	NM	NM	NM	NM	NM	<50	NM	NM	NM	NM	NM	NM	NM	<50
Zinc, Dissolved	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Table 5
Groundwater Quality Data
Quaternary Deposit Monitoring Location QAL006
Eagle Project

Parameter	Units	QAL006A								QAL006B							
		Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow	Spring Snowmelt Runoff	Summer Baseflow	Fall Rain Runoff		Winter Baseflow		Spring Snowmelt Runoff	Summer Baseflow
		4/28/04	8/17/04	9/16/04	10/18/04	12/28/04	2/22/05	4/27/05	8/17/05	4/28/04	8/17/04	10/6/04	10/18/04	12/28/04	2/22/05	4/27/05	8/17/05
Major Anions																	
Alkalinity, Bicarbonate	mg/L	3.1	<2.0	<2.0	<2.0 a	<2.0	<2.0	3.2	6.1	87	109	85	78 a	71	77	71	66
Alkalinity, Carbonate	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Alkalinity, Total	mg/L	NM	NM	NM	NM	NM	NM	NM	6.1	NM	NM	NM	NM	NM	NM	NM	66
Chloride	mg/L	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.57	1.8	2.1	2.1	1.0	<1.0	1.8	1.4	1.4
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.17	<0.10
Nitrogen, Ammonia	mg/L	NM	NM	NM	NM	NM	NM	NM	<0.020	NM	NM	NM	NM	NM	NM	NM	0.070
Nitrogen, Nitrate	mg/L	0.20	0.15	<0.05	0.17	0.15	0.18	0.14	0.16 e	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.050
Phosphorus, Total	mg/L	NM	NM	NM	NM	NM	NM	NM	<0.0100	NM	NM	NM	NM	NM	NM	NM	0.0232
Sulfate	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
Sulfide	mg/L	NM	NM	NM	NM	NM	NM	NM	<1.0	NM	NM	NM	NM	NM	NM	NM	<1.0
Major Cations																	
Calcium, Dissolved	mg/L	1.2	0.86	0.87	0.89	1.0	1.0	1.0	1.0	20	17	18	20	17	18	18	17
Magnesium, Dissolved	mg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.4	5.1	5.7	5.8	5.0	5.4	5.2	5.1
Potassium, Dissolved	mg/L	<0.50	<0.50	0.50	<0.50	0.74	<0.50	<0.50	0.60	0.79	0.67	0.67	0.70	0.73	0.68	0.62	0.57
Sodium, Dissolved	mg/L	0.51	0.62	0.72	<0.50	0.58	0.63	0.62	0.63	4.3	2.1	2.4	1.7	1.8	1.7	1.6	1.5
General Chemistry																	
Hardness, (calculated) as CaCO3	mg/L	4	3	3	3	4	4	4	4	72	63	68	74	63	67	66	63
Residue, Dissolved @ 180°C	mg/L	52	<50	<50	<50	54 a	<50	<50	130	158	144	131	138	204 a	100	126	50
Tritium	TU	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

- a Estimated value. Duplicate precision for this parameter exceeded quality control limit.
B Estimated value because sample result is above the method detection limit of 0.10 ng/L but below the reporting limit of 0.25 ng/L.
e Estimated value. The laboratory statement of data qualifications indicates that a quality control limit for this parameter was exceeded.
NM Not measured.
s Potential false positive value. Compound present in blank sample.
U Result was below the reporting limit and reported at the method detection limit.