



Cottonwood Consulting PO Box 1653 Durango CO, 81302	Project: Cats, Anions, BTEX, Naph, TMB 8260 Project Name / Number: Underwood Ditch Plugging Project Project Manager: Jake Harter	Reported: 01/04/22 12:19
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**Underwood Ditch (OWP) #2**

**2111027-04 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate as CaCO3*	880	10.0	4.53	mg/L	5	11/12/21 13:45	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	250	10.0	4.53	mg/L	5	11/12/21 13:45	2320 B		VJW
Chloride*	1450	100	4.22	mg/L	100	11/08/21 12:49	EPA300.0		AES
Total Dissolved Solids*	3770	10.0		mg/L	1	11/04/21 11:05	EPA160.1		VJW
Sulfate*	<20.0	20.0	3.05	mg/L	20	11/07/21 01:28	EPA300.0		AES

**Total Recoverable Metals by ICP (E200.7)**

Calcium*	5.66	2.00	0.988	mg/L	20	11/10/21 18:30	EPA200.7		AES
Hardness as CaCO3	24.0	13.2	7.14	mg/L	20	11/10/21 18:30	2340 B		AES
Magnesium*	2.39	2.00	1.14	mg/L	20	11/10/21 18:30	EPA200.7		AES
Potassium*	<20.0	20.0	3.66	mg/L	20	11/10/21 18:30	EPA200.7	M5	AES
Sodium*	1400	20.0	6.44	mg/L	20	11/11/21 14:46	EPA200.7		AES

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<1.00	1.00	0.295	mg/L	0.1	11/05/21 18:28	8015B		MS
DRO >C10-C28*	2.44	1.00	0.670	mg/L	0.1	11/05/21 18:28	8015B		MS
EXT DRO >C28-C36	3.93	1.00	0.670	mg/L	0.1	11/05/21 18:28	8015B		MS

Surrogate: 1-Chlorooctane 85.6 % 44.9-146 11/05/21 18:28 8015B MS

Surrogate: 1-Chlorooctadecane 84.2 % 39.8-162 11/05/21 18:28 8015B MS

**VOLATILES BY GC/MS**

Benzene*	0.007	0.0005	0.00009	mg/L	1	11/08/21 20:16	8260B		MS
Toluene*	<0.0005	0.0005	0.00007	mg/L	1	11/08/21 20:16	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	11/08/21 20:16	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	11/08/21 20:16	8260B		MS
o-Xylene*	0.002	0.0005	0.00007	mg/L	1	11/08/21 20:16	8260B		MS
Total Xylenes*	0.002	0.001	0.0005	mg/L	1	11/08/21 20:16	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	11/08/21 20:16	8260B		MS
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	11/08/21 20:16	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	11/08/21 20:16	8260B		MS

Surrogate: Dibromofluoromethane 102 % 82.4-141 11/08/21 20:16 8260B MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

Surrogate: Toluene-d8	102 %	87.1-110				11/08/21 20:16	8260B		MS
Surrogate: 4-Bromofluorobenzene	93.1 %	76.4-114				11/08/21 20:16	8260B		MS

**Subcontracted -- SunStar Laboratories, Inc. ,**

**RSK-175**

Methane	19600	65.6	7.28	ug/l	20	11/12/21 09:29	RSK-175		TI
Ethane	550	6.15	1.16	ug/l	1	11/12/21 09:29	RSK-175		TI
Propane	<9.02	9.02	0.577	ug/l	1	11/12/21 09:29	RSK-175		TI

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