Ready Mixed Concrete Company

Nix Water Quality Sampling Results

Samples Collected: 4/17/2023
Samples Reported: 05/18/2023

Analyte	Standard	Units	Nix-Owens-Mon 5A	Nix-RMCC-Mon 6	Nix-RMCC-Mon 7	Nix-RMCC-Mon 8
Aluminum (Al)	5000	ug/L	29.5	177	1120	693
Antimony (Sb)	6	ug/L	0.53	0.68	0.45	0.41
Arsenic (As)	10	ug/L	0.38	ND	0.71	0.555
Barium (Ba)	2000	ug/L	51	22.4	55.2	76.6
Beryllium (Be)	4	ug/L	ND	0.015	0.055	0.025
Boron (B)	750	ug/L	267	239	260	256
Cadmium (Cd)	5	ug/L	ND	0.03	0.06	0.045
Chloride (Cl)	250	mg/L	151	76.2	192	178
Chlorophenol	0.2	ug/L	ND	ND	ND	ND
Chromium (Cr)	100	ug/L	0.42	0.47	1.2	1.13
Cobalt (Co)	50	ug/L	0.19	0.2	1.28	0.53
Copper (Cu)	200	ug/L	1.38	0.495	1.72	1.29
Conductivity		ug/L	See FS	See FS	See FS	See FS
Cyanide [Free]	200	ug/L	ND	ND	ND	ND
Fluoride (F)	2	mg/L	1.85	ND	ND	2.2
Iron (Fe)	5000	ug/L	12.8	75.9	629	434
Lead (Pb)	50	ug/L	ND	0.11	0.895	0.51
Lithium (Li)	2.5	mg/L	0.051	0.0169	0.0309	0.0253
Manganese (Mn)	200	ug/L	0.47	0.795	34.6	14.9
Mercury (Hg) (inorganic)	2000	ug/L	ND	ND	ND	ND
Mercury (Hg)	10000	ug/L	ND	ND	ND	ND
Molybdenum (Mo)	210	ug/L	4.04	6.8	2.94	4.23
Nickel (Ni)	100	ug/L	1.39	0.84	2.75	2.06
Nitrate (NO2)	10	mg/L	12	0.8	7.15	9.8
Total Nitrite & Nitrate (NO2 +NO3)	10	mg/L	12	0.8	7.15	9.8
Nitrite (NO3)	1	mg/L	ND	ND	ND	ND
pH (lab)	6.5 - 8.5	s.u.	7.02	7.06	7.01	7
Phenol	0.3	mg/L	ND	ND	ND	ND
Selenium (Se)	20	ug/L	3.28	3.04	1.75	1.68
Silver (Ag)	50	ug/L	0.02	ND	0.01	ND
Sulfate (SO4)	250	mg/L	264	316	321	297
Thallium (Tl)	2	ug/L	ND	ND	ND	ND
Total Dissolved Solids (TDS)	TBD*	mg/L	1030	759	943	889
Uranium (U)	16.8	ug/L	11.6	24.3	7.47	20.3
Vanadium (V)	100	ug/L	0.72	0.62	2.39	1.62
Zinc (Zn)	2000	ug/L	2.76	1.23	3.82	4.24

*Per 5 CCR 1002-41; Table 4, Maximum Allowable TDS Concentrations are based on background levels. Previous sampling results from 6/2021 were 500-1,000mg/L making the limit 1.25x background concentration.

ND = Non-detect, refer to MDL in attached Summit Analytical report: 2304347F2

Exceedance

Well Sampling Log
Nix Sand and Gravel Mine
Groundwater Monitoring Field Sheet

Sample Point: **Nix-Owens-MON 2** Date: 4/17/23

Sampler Name: Scott Logan Time: 1045

Weather/Field Conditions:
Sunny, 61°F

Groundwater Monitoring Well Purging/Sampling:

Total Well Depth (TD) = 20.06 feet
Initial Depth to Water (DTW) 20.06 feet

Casing Volume = 0.163gal (for 2" diam. well) x (TD – DTW) = _____ gallons
Purge Volume = (Casing Volume x 3) = _____ gallons

Purge Method: ☐ Bailer ☐ Pump

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
Dry well - no sample collected								

Final Field Parameters:

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments

Analysis Requested:
Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)
Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)
SVOC: Phenol, Chlorophenol
Misc: pH, TDS, Free Cyanide

Well Sampling Log
Nix Sand and Gravel Mine
Groundwater Monitoring Field Sheet

Sample Point: **Nix-Owens-MON 4A** Date: 4/17/23

Sampler Name: Scott Legg Time: 1700

Weather/Field Conditions:

Sunny, 61°F

Groundwater Monitoring Well Purging/Sampling:

Total Well Depth (TD) = 20.14 feet
Initial Depth to Water (DTW) 20.14 feet

Casing Volume = 0.163gal (for 2" diam. well) x (TD – DTW) = _____ gallons
Purge Volume = (Casing Volume x 3) = _____ gallons

Purge Method: ☐ Bailer ☐ Pump

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
	Dry well - no samples collected							

Final Field Parameters:

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments

Analysis Requested:
Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)
Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)
SVOC: Phenol, Chlorophenol
Misc: pH, TDS, Free Cyanide

Well Sampling Log
Nix Sand and Gravel Mine
Groundwater Monitoring Field Sheet

Sample Point: **Nix-Owens-MON 5A** Date: 4/17/23

Sampler Name: S Hoss / E. Schallenkamp / J. Nuemann Time: 1410 hr 1756

Weather/Field Conditions:
Sunny, 71°F

Groundwater Monitoring Well Purging/Sampling:

Total Well Depth (TD) = 21.95 feet
Initial Depth to Water (DTW) 27.05 feet

Casing Volume = 0.163gal (for 2" diam. well) x (TD – DTW) = 0.9 gallons
Purge Volume = (Casing Volume x 3) = 2.71 gallons

Purge Method: ☒ Bailer ☐ Pump

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
1356	Initial	7.22	14.5	1587	NA	clear	NA	clear H_2O, no odor
1400	1	7.25	13.4	1608	NA	lt brown	NA	fine brown sediment
1406	2	7.26	12.7	1594	"	brown	"	"
	3							

Final Field Parameters:

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
1410	3	7.25	12.9	1593	NA	brown	"	fine brown sediment

Analysis Requested:
Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)
Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)
SVOC: Phenol, Chlorophenol
Misc: pH, TDS, Free Cyanide

Well Sampling Log
Nix Sand and Gravel Mine
Groundwater Monitoring Field Sheet

Sample Point: **Nix-RMMC-MON 6** Date: 4/17/23

Sampler Name: S Lyon / E. Schallenkamp / J. Neumann Time: 1158

Weather/Field Conditions:

Sunny, 63°F

Groundwater Monitoring Well Purging/Sampling:

Total Well Depth (TD) = 51.89 feet
Initial Depth to Water (DTW) 25.91 feet 26.15

Casing Volume = 0.163gal (for 2" diam. well) x (TD – DTW) = 4.23 gallons
Purge Volume = (Casing Volume x 3) = 12.7 gallons

Purge Method: ☐ Bailer ☒ Pump

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
1158	Initial	7.38	17.8	1182	NA	heavy brown org	NA	NA
1200	3	7.45	15.0	1161	NA	"	"	"
	6							
	9							
	12							
1202	Purged dry @ 5 gal							
		80% Recharge						

Final Field Parameters:

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
1430	80%	7.35	16.5	1170	N/A	lt brown	n.a	fine organic sed

Analysis Requested:
Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)
Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)
SVOC: Phenol, Chlorophenol
Misc: pH, TDS, Free Cyanide

Well Sampling Log
Nix Sand and Gravel Mine
Groundwater Monitoring Field Sheet

Sample Point: **Nix-RMMC-MON 7** Date: 4/19/23

Sampler Name: S Lagg / E. Schallenkamp / J. Nuemann Time: 1318

Weather/Field Conditions:
Sunny, 71°F

Groundwater Monitoring Well Purging/Sampling:

Total Well Depth (TD) = 17.40 feet
Initial Depth to Water (DTW) 37.00 feet

Casing Volume = 0.163gal (for 2" diam. well) x (TD – DTW) = 3.19 gallons
Purge Volume = (Casing Volume x 3) = 9.6 gallons

Purge Method: ☒ Bailer ☐ Pump

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
1318	Initial	~~15.4~~ 7.24	15.4	1383	N/A	brown	N/A	heavy organic soil
1324	3	7.33	15.0	1373	—	lt brown	—	mild organic soil
1330	6	7.21	15.9	1418	—	brown	—	heavy organic soil
1335	9	7.31	15.0	1406	—	lt brown	—	mild organic soil
13:40	10	7.30	15.8	1428	—	light brown	—	
▲ recal second cal @ 1330 – meter functioning correctly								

Final Field Parameters:

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
13:40	10 gal	7.30	15.8	1428	—	light brown	N/A	mild organic fines

Analysis Requested:
Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)
Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)
SVOC: Phenol, Chlorophenol
Misc: pH, TDS, Free Cyanide

Well Sampling Log
Nix Sand and Gravel Mine
Groundwater Monitoring Field Sheet

Sample Point: **Nix-RMMC-MON 8** Date: 4/17/23

Sampler Name: S Heggy / E. Schallenkamp / J. Nuemann Time: 1250

Weather/Field Conditions:
Sunny, 71F

Groundwater Monitoring Well Purging/Sampling:

Total Well Depth (TD) = 39.00 feet
Initial Depth to Water (DTW) 11.1 feet

Casing Volume = 0.163gal (for 2" diam. well) x (TD – DTW) = 4.55 gallons (27.9)
Purge Volume = (Casing Volume x 3) = 13.6 gallons

Purge Method: ☐ Bailer ☐ Pump

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
12:22	Int	7.26	15.3	1434	None	Brown	No	Heavy organic sed
12:28	3 gal	7.24	15.2	1399	None	Light Brown	NO	"
12:32	6 gal	7.21	15.7	1369	None	Clear	NO	"
12:36	8 gal	7.23	15.7	1399	None	Clear	NO	"
12:45	12 gal	7.29	16.6	1410	None	Clear	NO	"
12:49	14 gal	7.27	15.0	1417	None	Clear	NO	—

Final Field Parameters:

Time	Volume Removed (gal)	pH (s.u.)	Temp (°C)	Sp. Cond. (µS/cm.)	Odor	Color / Sediment	Bubbles / Effervescence	Comments
1250	14	7.3	15	1417	None	clear	none	Samples Collected

Analysis Requested:
Dissolved Metals: Ag, Al, As, Ba, Be, B, Cd, Cr, Co, Cu, F, Fe, Pb, Li, Mn, Hg, Mo, Ni, Sb, Se, Tl, U, V, Zn (Lab filtered)
Anions: Cl, NO2, NO3, NO2 + NO3, SO4 (Lab filtered)
SVOC: Phenol, Chlorophenol
Misc: pH, TDS, Free Cyanide

Field Instrument Calibration Sheet

Instrument:

Make: Oakton Model: PCTSTestr 50 Serial : 2897197

Date: 4/17/23

Pre Sampling Time: 1140 **Post Sampling Time:** 1833

Performed By: [illegible]

Calibration

The multimeter must be calibrated/verified **before and after** sample collection. In addition, the meter must be calibrated/verified for **all** field parameters that are to be measured and recorded.

Perform a three point pH calibration. Record measured value for each buffer solution after calibration has been completed. In addition, record pH mV values.

Calibration/Standard	Pre Sampling Value		Post Sampling Value	
	Temp (°C)	Result (s.u.)	Temp (°C)	Result (s.u.)
pH 4.0 Buffer Lot#: 2GI306 Exp Date: 9/2024	23.6	4.00 ~~4.13~~	22.4	4.01
pH 7.0 Buffer Lot#: 3ga766 Exp Date: 1/2025	23.1	7.03	23.2	7.05
pH 10.0 Buffer Lot#: 3GA1134. Exp Date: 1/2025	22.6	9.96	23.8	10.01
Conductivity Standard 1413 (µS/cm) Lot#: 3GB162 Exp Date: 2/2024	23.2	1413	22.9	1423

Chain of Custody Form

Colorado Analytical LABORATORIES, INC

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
610 Garrison Street, Unit E
Lakewood CO 80215

Phone: 303-659-2313

www.coloradolab.com

Report To Information	Bill To Information (If different from report to)	Project Name / Number
Company Name: Beaman Summit Scientific	Company Name:	Beaman
Contact Name: Scott Hoagland	Contact Name:	
Address:	Address:	Task Number (Lab Use Only)
City State Zip	City State Zip	
Phone:	Phone:	
Email:	Email:	
Sample Collector:		
Sample Collector Phone:	PO No.:	

Sample Matrix (Select One Only)

Waste Water ☐ Soil ☐ Drinking Water ☐
Ground Water ☒ Sludge ☐
Surface Water ☐

Date	Time	Sample ID	No. of Containers	Grab or (Check One Only) Composite		Tests Requested: Coliform (Colilert)
4/17/23	1410	Nix-Owens-MON 5A	1			X
4/17/23	1430	Nix-RMCC-MON 6	1			X
4/17/23	1340	Nix-RMCC-MON 7	1			X
4/17/23	1250	Nix-RMCC-MON 8	1			X

Instructions:

C/S Info:

Deliver Via: Hand C/S Charge ☐

Seals Present Yes ☐ No ☐

Temp. 4 °C/Ice Y Sample Pres. Yes ☐ No ☐

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	4/17/23 1612	[signature]	4/17/23 1612				

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

May 18, 2023

Scott Legg
Brannan Sand and Gravel
2500 E Brannan Way
Denver, CO 80229

RE: Nix

Work Order # 2304347

Enclosed are the results of analyses for samples received by Summit Scientific on 04/17/23 16:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mikayla Axtell For Paul Shrewsbury
President

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Nix-Owens-Mon 5A	2304347-01	Water	04/17/23 14:10	04/17/23 16:25
Nix-RMCC-Mon 6	2304347-02	Water	04/17/23 14:30	04/17/23 16:25
Nix-RMCC-Mon 7	2304347-03	Water	04/17/23 13:40	04/17/23 16:25
Nix-RMCC-Mon 8	2304347-04	Water	04/17/23 12:50	04/17/23 16:25

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

2304347

Summit Scientific

S2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Brannan Sand + Gravel
Address: 2500 Brannan Way
City/State/Zip: Denver CO 80229
Phone: 720-537-0710
Sampler Name: Emily Schallenkamp

Project Manager: Scott Legg
E-Mail: slegg@brannan1.com
eschallenkamp@brannan1.com
Project Name: NiX
Project Number: 1-26-26770

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Dissolved Metals	Anions	SVOC	PH	TDS	Cyanide			
1	Nix-Owens-Mon 5A	4/17/23	14:10	5		X	X		X				X	X	X	X	X	X			Include MDL
2	Nix-RMCC-Mon 6	4/17/23	14:30	5		X	X		X				X	X	X	X	X	X			
3	Nix-RMCC-Mon 7	4/17/23	13:40	5		X	X		X				X	X	X	X	X	X			
4	Nix-RMCC-Mon 8	4/17/23	12:50	5		X	X		X				X	X	X	X	X	X			
5													X	X	X	X	X	X			
6																					
7																					
8																					
9																					
10																					

Relinquished by: Emily Schallenkamp Date/Time: 4/17/23 16:15
Received by: Sato Skelly Date/Time: 4/17/23 1625
Relinquished by: Date/Time:
Received by: Date/Time:

Temperature Upon Receipt: 0.8
IR gun correction: —
Corrected Temperature: —
IR gun #: 02
HNO3 lot #:

Turn Around Time (Check)
Same Day ___ 72 hours ___
24 hours ___ Standard X
48 hours ___

Sample Integrity:
Samples Intact: Yes No

Notes:

S2

S2 Work Order# 2304347

Sample Receipt Checklist

Client: Brannan Sand & Gravel Client Project ID: Nix

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other [ ] Airbill #: [ ]

[/] [ ] [ ] [ ] [ ]

Matrix (Check all that apply) Air [ ] Soil/Solid [ ] Water [/] Other [ ]

Temp (°C) 0.8 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) **NOTE:** If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	/			On Ice
If custody seals are present, are they intact? (1)			/	
Are samples due within 48 hours present?		/		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe^{2+}), Hexavalent Chromium (Cr^{6+}, Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen		/		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	/			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	/			
Were all samples received intact? (1)	/			
Was adequate sample volume provided? (1)	/			
Does the COC agree with the number and type of sample bottles received? (1)	/			
Do the sample IDs on the bottle labels match the COC? (1)	/			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			/	
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.	/			HNO_3
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.	/			
If dissolved metals are requested, were samples field filtered?			/	
Additional Comments (if any): Samples are to be used for both COC's				
(1) If NO, then contact the client before proceeding with analysis and note in case narrative.				

[ ]
Custodian Printed Name

4/17/23 1625
Date/Time

S2

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-Owens-Mon 5A

2304347-01 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	1.61	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D	
Acenaphthylene	ND	10.0	1.44	"	"	"	"	"	"	
Anthracene	ND	10.0	1.56	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	10.0	2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	0.650	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	0.870	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	0.640	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	0.580	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	0.600	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	1.24	"	"	"	"	"	"	
Pyridine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	1.49	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	1.13	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	1.31	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10.0	1.00	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	1.91	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	0.790	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	1.37	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	1.66	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	1.54	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	1.01	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	1.83	"	"	"	"	"	"	
Chrysene	ND	10.0	0.620	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	0.690	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	1.82	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	1.44	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	0.990	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	1.06	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	0.980	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	1.26	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	1.95	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	2.78	"	"	"	"	"	"	

Summit Scientific

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-Owens-Mon 5A

2304347-01 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Carbazole	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
Dimethyl phthalate	ND	10.0	2.09	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	10.0	0.900	"	"	"	"	"	"
2,4-Dinitrophenol	ND	10.0	1.02	"	"	"	"	"	"
Azobenzene	ND	10.0	2.00	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	10.0	1.60	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	10.0	1.75	"	"	"	"	"	"
Di-n-octyl phthalate	ND	10.0	0.760	"	"	"	"	"	"
Fluoranthene	ND	10.0	0.740	"	"	"	"	"	"
Fluorene	ND	10.0	2.24	"	"	"	"	"	"
Hexachlorobenzene	ND	10.0	1.81	"	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	3.04	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	10.0	0.720	"	"	"	"	"	"
Hexachloroethane	ND	10.0	1.34	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	0.620	"	"	"	"	"	"
Isophorone	ND	10.0	1.32	"	"	"	"	"	"
2-Methylphenol	ND	10.0	1.30	"	"	"	"	"	"
4-Methylphenol	ND	10.0	1.26	"	"	"	"	"	"
1,2-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
2-Nitroaniline	ND	10.0	2.24	"	"	"	"	"	"
1,3-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
3-Nitroaniline	ND	10.0	1.81	"	"	"	"	"	"
1,4-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
4-Nitroaniline	ND	10.0	0.970	"	"	"	"	"	"
Nitrobenzene	ND	10.0	1.34	"	"	"	"	"	"
2-Nitrophenol	ND	10.0	1.05	"	"	"	"	"	"
4-Nitrophenol	ND	10.0	3.41	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	10.0	1.45	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	10.0	2.00	"	"	"	"	"	"
Pentachlorophenol	ND	10.0	0.870	"	"	"	"	"	"
Phenanthrene	ND	10.0	1.80	"	"	"	"	"	"
Phenol	ND	10.0	1.17	"	"	"	"	"	"
Aniline	ND	10.0	2.00	"	"	"	"	"	"
Pyrene	ND	10.0	0.850	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	1.11	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	10.0	1.65	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	10.0	1.40	"	"	"	"	"	"

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-Owens-Mon 5A

2304347-01 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

2-Methylnaphthalene	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
1-Methylnaphthalene	ND	10.0	2.00	"	"	"	"	"	"
Naphthalene	ND	10.0	1.24	"	"	"	"	"	"
3,3´-Dichlorobenzidine	ND	30.0	3.05	"	"	"	"	"	"

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		*65.1 %*		*20-120*		"	"	"	"	
Surrogate: Phenol-d5		*37.2 %*		*20-120*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*104 %*		*20-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.5 %*		*20-120*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*76.6 %*		*20-120*		"	"	"	"	
Surrogate: Terphenyl-dl4		*26.6 %*		*20-120*		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Aluminum	**29.5**	50.0	14.6	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Vanadium	**0.720**	0.0500		"	"	"	"	"	"	
Uranium	**11.6**	0.500	0.0619	"	"	"	"	"	"	
Antimony	**0.530**	0.0500	0.0254	"	"	"	"	"	"	
Arsenic	**0.380**	0.600	0.337	"	"	"	"	"	"	
Barium	**51.0**	1.00	0.633	"	"	"	"	"	"	
Beryllium	ND	0.100	0.0106	"	"	"	"	"	"	
Cadmium	ND	0.0500	0.0144	"	"	"	"	"	"	
Boron	**267**	10.0	6.39	"	"	"	"	"	"	
Chromium	**0.420**	1.00	0.168	"	"	"	"	"	"	
Cobalt	**0.190**	1.00	0.0569	"	"	"	"	"	"	
Copper	**1.38**	1.00	0.143	"	"	"	"	"	"	
Iron	**12.8**	10.0	4.47	"	"	"	"	"	"	
Lead	ND	0.500	0.110	"	"	"	"	"	"	
Manganese	**0.470**	1.00	0.319	"	"	"	"	"	"	
Molybdenum	**4.04**	1.00	0.108	"	"	"	"	"	"	
Nickel	**1.39**	1.00	0.0611	"	"	"	"	"	"	

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-Owens-Mon 5A

2304347-01 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Selenium	**3.28**	1.00	0.0350	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Silver	**0.0200**	0.250	0.00535	"	"	"	"	"	"	
Thallium	ND	1.00		"	"	"	"	"	"	
Zinc	**2.76**	1.00	0.118	"	"	"	"	"	"	

Dissolved Mercury by EPA Method 245.1

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.200	0.0880	ug/l	1	BGD0645	04/20/23	04/21/23	EPA 245.1	

Anions by EPA Method 300.0

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromide	ND	10.0	0.0225	mg/L	50	BGD0558	04/18/23	04/21/23	EPA 300.0	
Chloride	**151**	3.00	0.0725	"	"	"	"	"	"	
Chloride	**151**	3.00	0.0725	"	"	"	"	"	"	
Fluoride	**1.85**	2.00	0.00550	"	"	"	"	"	"	
Nitrate as N	**12.0**	2.50	0.00550	"	"	"	"	"	"	
Nitrite as N	ND	3.00	0.0350	"	"	"	"	"	"	
Orthophosphate as P	**0.800**	5.00	0.357	"	"	"	"	"	"	
Sulfate	**264**	15.0	0.352	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1030**	10.0	10.0	mg/L	1	BGD0787	04/24/23	04/24/23	SM2540C	

pH by SM4500

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-Owens-Mon 5A

2304347-01 (Water)

Summit Scientific

pH by SM4500

Date Sampled: **04/17/23 14:10**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.02**	1.00		pH Units	1	BGD0804	04/17/23	04/24/23	SM4500-H+ B	

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 6

2304347-02 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	1.61	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D	
Acenaphthylene	ND	10.0	1.44	"	"	"	"	"	"	
Anthracene	ND	10.0	1.56	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	10.0	2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	0.650	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	0.870	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	0.640	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	0.580	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	0.600	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	1.24	"	"	"	"	"	"	
Pyridine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	1.49	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	1.13	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	1.31	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10.0	1.00	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	1.91	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	0.790	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	1.37	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	1.66	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	1.54	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	1.01	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	1.83	"	"	"	"	"	"	
Chrysene	ND	10.0	0.620	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	0.690	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	1.82	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	1.44	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	0.990	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	1.06	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	0.980	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	1.26	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	1.95	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	2.78	"	"	"	"	"	"	

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Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Nix-RMCC-Mon 6

2304347-02 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Carbazole	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
Dimethyl phthalate	ND	10.0	2.09	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	10.0	0.900	"	"	"	"	"	"
2,4-Dinitrophenol	ND	10.0	1.02	"	"	"	"	"	"
Azobenzene	ND	10.0	2.00	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	10.0	1.60	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	10.0	1.75	"	"	"	"	"	"
Di-n-octyl phthalate	ND	10.0	0.760	"	"	"	"	"	"
Fluoranthene	ND	10.0	0.740	"	"	"	"	"	"
Fluorene	ND	10.0	2.24	"	"	"	"	"	"
Hexachlorobenzene	ND	10.0	1.81	"	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	3.04	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	10.0	0.720	"	"	"	"	"	"
Hexachloroethane	ND	10.0	1.34	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	0.620	"	"	"	"	"	"
Isophorone	ND	10.0	1.32	"	"	"	"	"	"
2-Methylphenol	ND	10.0	1.30	"	"	"	"	"	"
4-Methylphenol	ND	10.0	1.26	"	"	"	"	"	"
1,2-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
2-Nitroaniline	ND	10.0	2.24	"	"	"	"	"	"
1,3-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
3-Nitroaniline	ND	10.0	1.81	"	"	"	"	"	"
1,4-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
4-Nitroaniline	ND	10.0	0.970	"	"	"	"	"	"
Nitrobenzene	ND	10.0	1.34	"	"	"	"	"	"
2-Nitrophenol	ND	10.0	1.05	"	"	"	"	"	"
4-Nitrophenol	ND	10.0	3.41	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	10.0	1.45	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	10.0	2.00	"	"	"	"	"	"
Pentachlorophenol	ND	10.0	0.870	"	"	"	"	"	"
Phenanthrene	ND	10.0	1.80	"	"	"	"	"	"
Phenol	ND	10.0	1.17	"	"	"	"	"	"
Aniline	ND	10.0	2.00	"	"	"	"	"	"
Pyrene	ND	10.0	0.850	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	1.11	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	10.0	1.65	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	10.0	1.40	"	"	"	"	"	"

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 6

2304347-02 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

2-Methylnaphthalene	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
1-Methylnaphthalene	ND	10.0	2.00	"	"	"	"	"	"
Naphthalene	ND	10.0	1.24	"	"	"	"	"	"
3,3´-Dichlorobenzidine	ND	30.0	3.05	"	"	"	"	"	"

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		*64.8 %*		*20-120*		"	"	"	"	
Surrogate: Phenol-d5		*36.4 %*		*20-120*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*104 %*		*20-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*86.6 %*		*20-120*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*74.6 %*		*20-120*		"	"	"	"	
Surrogate: Terphenyl-dl4		*31.6 %*		*20-120*		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Aluminum	**177**	50.0	14.6	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Vanadium	**0.620**	0.0500		"	"	"	"	"	"	
Uranium	**24.3**	0.500	0.0619	"	"	"	"	"	"	
Antimony	**0.680**	0.0500	0.0254	"	"	"	"	"	"	
Arsenic	ND	0.600	0.337	"	"	"	"	"	"	
Barium	**22.4**	1.00	0.633	"	"	"	"	"	"	
Beryllium	**0.0150**	0.100	0.0106	"	"	"	"	"	"	
Cadmium	**0.0300**	0.0500	0.0144	"	"	"	"	"	"	
Boron	**239**	10.0	6.39	"	"	"	"	"	"	
Chromium	**0.470**	1.00	0.168	"	"	"	"	"	"	
Cobalt	**0.200**	1.00	0.0569	"	"	"	"	"	"	
Copper	**0.495**	1.00	0.143	"	"	"	"	"	"	
Iron	**75.9**	10.0	4.47	"	"	"	"	"	"	
Lead	**0.110**	0.500	0.110	"	"	"	"	"	"	
Manganese	**0.795**	1.00	0.319	"	"	"	"	"	"	
Molybdenum	**6.80**	1.00	0.108	"	"	"	"	"	"	
Nickel	**0.840**	1.00	0.0611	"	"	"	"	"	"	

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 6

2304347-02 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Selenium	**3.04**	1.00	0.0350	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Silver	ND	0.250	0.00535	"	"	"	"	"	"	
Thallium	ND	1.00		"	"	"	"	"	"	
Zinc	**1.23**	1.00	0.118	"	"	"	"	"	"	

Dissolved Mercury by EPA Method 245.1

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.200	0.0880	ug/l	1	BGD0645	04/20/23	04/21/23	EPA 245.1	

Anions by EPA Method 300.0

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromide	ND	10.0	0.0225	mg/L	50	BGD0558	04/18/23	04/21/23	EPA 300.0	
Chloride	**76.2**	3.00	0.0725	"	"	"	"	"	"	
Chloride	**76.2**	3.00	0.0725	"	"	"	"	"	"	
Fluoride	ND	2.00	0.00550	"	"	"	"	"	"	
Nitrate as N	**0.800**	2.50	0.00550	"	"	"	"	"	"	
Nitrite as N	ND	3.00	0.0350	"	"	"	"	"	"	
Orthophosphate as P	ND	5.00	0.357	"	"	"	"	"	"	
Sulfate	**316**	15.0	0.352	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**759**	10.0	10.0	mg/L	1	BGD0787	04/24/23	04/24/23	SM2540C	

pH by SM4500

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 6

2304347-02 (Water)

Summit Scientific

pH by SM4500

Date Sampled: **04/17/23 14:30**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.06**	1.00		pH Units	1	BGD0804	04/17/23	04/24/23	SM4500-H+ B	

S2

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Nix-RMCC-Mon 7

2304347-03 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	1.61	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D	
Acenaphthylene	ND	10.0	1.44	"	"	"	"	"	"	
Anthracene	ND	10.0	1.56	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	10.0	2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	0.650	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	0.870	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	0.640	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	0.580	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	0.600	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	1.24	"	"	"	"	"	"	
Pyridine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	1.49	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	1.13	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	1.31	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10.0	1.00	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	1.91	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	0.790	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	1.37	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	1.66	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	1.54	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	1.01	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	1.83	"	"	"	"	"	"	
Chrysene	ND	10.0	0.620	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	0.690	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	1.82	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	1.44	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	0.990	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	1.06	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	0.980	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	1.26	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	1.95	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	2.78	"	"	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

S2

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 7

2304347-03 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Carbazole	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
Dimethyl phthalate	ND	10.0	2.09	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	10.0	0.900	"	"	"	"	"	"
2,4-Dinitrophenol	ND	10.0	1.02	"	"	"	"	"	"
Azobenzene	ND	10.0	2.00	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	10.0	1.60	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	10.0	1.75	"	"	"	"	"	"
Di-n-octyl phthalate	ND	10.0	0.760	"	"	"	"	"	"
Fluoranthene	ND	10.0	0.740	"	"	"	"	"	"
Fluorene	ND	10.0	2.24	"	"	"	"	"	"
Hexachlorobenzene	ND	10.0	1.81	"	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	3.04	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	10.0	0.720	"	"	"	"	"	"
Hexachloroethane	ND	10.0	1.34	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	0.620	"	"	"	"	"	"
Isophorone	ND	10.0	1.32	"	"	"	"	"	"
2-Methylphenol	ND	10.0	1.30	"	"	"	"	"	"
4-Methylphenol	ND	10.0	1.26	"	"	"	"	"	"
1,2-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
2-Nitroaniline	ND	10.0	2.24	"	"	"	"	"	"
1,3-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
3-Nitroaniline	ND	10.0	1.81	"	"	"	"	"	"
1,4-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
4-Nitroaniline	ND	10.0	0.970	"	"	"	"	"	"
Nitrobenzene	ND	10.0	1.34	"	"	"	"	"	"
2-Nitrophenol	ND	10.0	1.05	"	"	"	"	"	"
4-Nitrophenol	ND	10.0	3.41	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	10.0	1.45	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	10.0	2.00	"	"	"	"	"	"
Pentachlorophenol	ND	10.0	0.870	"	"	"	"	"	"
Phenanthrene	ND	10.0	1.80	"	"	"	"	"	"
Phenol	ND	10.0	1.17	"	"	"	"	"	"
Aniline	ND	10.0	2.00	"	"	"	"	"	"
Pyrene	ND	10.0	0.850	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	1.11	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	10.0	1.65	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	10.0	1.40	"	"	"	"	"	"

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Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Nix-RMCC-Mon 7

2304347-03 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

2-Methylnaphthalene	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
1-Methylnaphthalene	ND	10.0	2.00	"	"	"	"	"	"
Naphthalene	ND	10.0	1.24	"	"	"	"	"	"
3,3´-Dichlorobenzidine	ND	30.0	3.05	"	"	"	"	"	"

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		*59.2 %*		*20-120*		"	"	"	"	
Surrogate: Phenol-d5		*33.5 %*		*20-120*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*102 %*		*20-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*84.3 %*		*20-120*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*76.6 %*		*20-120*		"	"	"	"	
Surrogate: Terphenyl-dl4		*43.1 %*		*20-120*		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Aluminum	**1120**	50.0	14.6	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Vanadium	**2.39**	0.0500		"	"	"	"	"	"	
Uranium	**7.47**	0.500	0.0619	"	"	"	"	"	"	
Antimony	**0.450**	0.0500	0.0254	"	"	"	"	"	"	
Arsenic	**0.710**	0.600	0.337	"	"	"	"	"	"	
Barium	**55.2**	1.00	0.633	"	"	"	"	"	"	
Beryllium	**0.0550**	0.100	0.0106	"	"	"	"	"	"	
Cadmium	**0.0600**	0.0500	0.0144	"	"	"	"	"	"	
Boron	**260**	10.0	6.39	"	"	"	"	"	"	
Chromium	**1.20**	1.00	0.168	"	"	"	"	"	"	
Cobalt	**1.28**	1.00	0.0569	"	"	"	"	"	"	
Copper	**1.72**	1.00	0.143	"	"	"	"	"	"	
Iron	**629**	10.0	4.47	"	"	"	"	"	"	
Lead	**0.895**	0.500	0.110	"	"	"	"	"	"	
Manganese	**34.6**	1.00	0.319	"	"	"	"	"	"	
Molybdenum	**2.94**	1.00	0.108	"	"	"	"	"	"	
Nickel	**2.75**	1.00	0.0611	"	"	"	"	"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

S2

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 7

2304347-03 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Selenium	**1.75**	1.00	0.0350	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Silver	**0.0100**	0.250	0.00535	"	"	"	"	"	"	
Thallium	ND	1.00		"	"	"	"	"	"	
Zinc	**3.82**	1.00	0.118	"	"	"	"	"	"	

Dissolved Mercury by EPA Method 245.1

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.200	0.0880	ug/l	1	BGD0645	04/20/23	04/21/23	EPA 245.1	

Anions by EPA Method 300.0

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromide	ND	10.0	0.0225	mg/L	50	BGD0558	04/18/23	04/21/23	EPA 300.0	
Chloride	**192**	3.00	0.0725	"	"	"	"	"	"	
Chloride	**192**	3.00	0.0725	"	"	"	"	"	"	
Fluoride	ND	2.00	0.00550	"	"	"	"	"	"	
Nitrate as N	**7.15**	2.50	0.00550	"	"	"	"	"	"	
Nitrite as N	ND	3.00	0.0350	"	"	"	"	"	"	
Orthophosphate as P	ND	5.00	0.357	"	"	"	"	"	"	
Sulfate	**321**	15.0	0.352	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**943**	10.0	10.0	mg/L	1	BGD0787	04/24/23	04/24/23	SM2540C	

pH by SM4500

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 7

2304347-03 (Water)

Summit Scientific

pH by SM4500

Date Sampled: **04/17/23 13:40**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.01**	1.00		pH Units	1	BGD0804	04/17/23	04/24/23	SM4500-H+ B	

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Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Nix-RMCC-Mon 8

2304347-04 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	10.0	1.61	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D	
Acenaphthylene	ND	10.0	1.44	"	"	"	"	"	"	
Anthracene	ND	10.0	1.56	"	"	"	"	"	"	
Bis(2-ethylhexyl)adipate	ND	10.0	2.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	0.650	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	0.870	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	20.0	0.640	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10.0	0.580	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	0.600	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	1.24	"	"	"	"	"	"	
Pyridine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	1.49	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	10.0	2.00	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	1.13	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	1.31	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10.0	1.00	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	1.91	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	0.790	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	1.37	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	1.66	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	1.54	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	1.01	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	1.83	"	"	"	"	"	"	
Chrysene	ND	10.0	0.620	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	0.690	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	1.82	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	1.44	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	0.990	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	1.06	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	0.980	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	1.26	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	1.95	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	2.78	"	"	"	"	"	"	

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 8

2304347-04 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

Carbazole	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
Dimethyl phthalate	ND	10.0	2.09	"	"	"	"	"	"
4,6-Dinitro-2-methylphenol	ND	10.0	0.900	"	"	"	"	"	"
2,4-Dinitrophenol	ND	10.0	1.02	"	"	"	"	"	"
Azobenzene	ND	10.0	2.00	"	"	"	"	"	"
2,4-Dinitrotoluene	ND	10.0	1.60	"	"	"	"	"	"
2,6-Dinitrotoluene	ND	10.0	1.75	"	"	"	"	"	"
Di-n-octyl phthalate	ND	10.0	0.760	"	"	"	"	"	"
Fluoranthene	ND	10.0	0.740	"	"	"	"	"	"
Fluorene	ND	10.0	2.24	"	"	"	"	"	"
Hexachlorobenzene	ND	10.0	1.81	"	"	"	"	"	"
Hexachlorobutadiene	ND	10.0	3.04	"	"	"	"	"	"
Hexachlorocyclopentadiene	ND	10.0	0.720	"	"	"	"	"	"
Hexachloroethane	ND	10.0	1.34	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	10.0	0.620	"	"	"	"	"	"
Isophorone	ND	10.0	1.32	"	"	"	"	"	"
2-Methylphenol	ND	10.0	1.30	"	"	"	"	"	"
4-Methylphenol	ND	10.0	1.26	"	"	"	"	"	"
1,2-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
2-Nitroaniline	ND	10.0	2.24	"	"	"	"	"	"
1,3-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
3-Nitroaniline	ND	10.0	1.81	"	"	"	"	"	"
1,4-Dinitrobenzene	ND	10.0	2.00	"	"	"	"	"	"
4-Nitroaniline	ND	10.0	0.970	"	"	"	"	"	"
Nitrobenzene	ND	10.0	1.34	"	"	"	"	"	"
2-Nitrophenol	ND	10.0	1.05	"	"	"	"	"	"
4-Nitrophenol	ND	10.0	3.41	"	"	"	"	"	"
N-Nitrosodi-n-propylamine	ND	10.0	1.45	"	"	"	"	"	"
2,3,4,6-Tetrachlorophenol	ND	10.0	2.00	"	"	"	"	"	"
Pentachlorophenol	ND	10.0	0.870	"	"	"	"	"	"
Phenanthrene	ND	10.0	1.80	"	"	"	"	"	"
Phenol	ND	10.0	1.17	"	"	"	"	"	"
Aniline	ND	10.0	2.00	"	"	"	"	"	"
Pyrene	ND	10.0	0.850	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	10.0	1.11	"	"	"	"	"	"
2,4,5-Trichlorophenol	ND	10.0	1.65	"	"	"	"	"	"
2,4,6-Trichlorophenol	ND	10.0	1.40	"	"	"	"	"	"

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Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Nix-RMCC-Mon 8

2304347-04 (Water)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D

2-Methylnaphthalene	ND	10.0	2.00	ug/l	1	BGD0571	04/18/23	04/18/23	EPA 8270D
1-Methylnaphthalene	ND	10.0	2.00	"	"	"	"	"	"
Naphthalene	ND	10.0	1.24	"	"	"	"	"	"
3,3´-Dichlorobenzidine	ND	30.0	3.05	"	"	"	"	"	"

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorophenol		*59.4 %*		*20-120*		"	"	"	"	
Surrogate: Phenol-d5		*33.8 %*		*20-120*		"	"	"	"	
Surrogate: Nitrobenzene-d5		*101 %*		*20-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*83.6 %*		*20-120*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*76.6 %*		*20-120*		"	"	"	"	
Surrogate: Terphenyl-dl4		*39.6 %*		*20-120*		"	"	"	"	

Dissolved Metals by EPA Method 200.8

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Aluminum	**693**	50.0	14.6	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Vanadium	**1.62**	0.0500		"	"	"	"	"	"	
Uranium	**20.3**	0.500	0.0619	"	"	"	"	"	"	
Antimony	**0.410**	0.0500	0.0254	"	"	"	"	"	"	
Arsenic	**0.555**	0.600	0.337	"	"	"	"	"	"	
Barium	**76.6**	1.00	0.633	"	"	"	"	"	"	
Beryllium	**0.0250**	0.100	0.0106	"	"	"	"	"	"	
Cadmium	**0.0450**	0.0500	0.0144	"	"	"	"	"	"	
Boron	**256**	10.0	6.39	"	"	"	"	"	"	
Chromium	**1.13**	1.00	0.168	"	"	"	"	"	"	
Cobalt	**0.530**	1.00	0.0569	"	"	"	"	"	"	
Copper	**1.29**	1.00	0.143	"	"	"	"	"	"	
Iron	**434**	10.0	4.47	"	"	"	"	"	"	
Lead	**0.510**	0.500	0.110	"	"	"	"	"	"	
Manganese	**14.9**	1.00	0.319	"	"	"	"	"	"	
Molybdenum	**4.23**	1.00	0.108	"	"	"	"	"	"	
Nickel	**2.06**	1.00	0.0611	"	"	"	"	"	"	

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 8

2304347-04 (Water)

Summit Scientific

Dissolved Metals by EPA Method 200.8

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Selenium	**1.68**	1.00	0.0350	ug/l	1	BGD0563	04/18/23	04/19/23	EPA 200.8	
Silver	ND	0.250	0.00535	"	"	"	"	"	"	
Thallium	ND	1.00		"	"	"	"	"	"	
Zinc	**4.24**	1.00	0.118	"	"	"	"	"	"	

Dissolved Mercury by EPA Method 245.1

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.200	0.0880	ug/l	1	BGD0645	04/20/23	04/21/23	EPA 245.1	

Anions by EPA Method 300.0

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromide	ND	10.0	0.0225	mg/L	50	BGD0558	04/18/23	04/21/23	EPA 300.0	
Chloride	**178**	3.00	0.0725	"	"	"	"	"	"	
Chloride	**178**	3.00	0.0725	"	"	"	"	"	"	
Fluoride	**2.20**	2.00	0.00550	"	"	"	"	"	"	
Nitrate as N	**9.80**	2.50	0.00550	"	"	"	"	"	"	
Nitrite as N	ND	3.00	0.0350	"	"	"	"	"	"	
Orthophosphate as P	ND	5.00	0.357	"	"	"	"	"	"	
Sulfate	**297**	15.0	0.352	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**889**	10.0	10.0	mg/L	1	BGD0787	04/24/23	04/24/23	SM2540C	

pH by SM4500

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Nix-RMCC-Mon 8

2304347-04 (Water)

Summit Scientific

pH by SM4500

Date Sampled: **04/17/23 12:50**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**7.00**	1.00		pH Units	1	BGD0804	04/17/23	04/24/23	SM4500-H+ B	

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0571 - EPA 5030 Water MS										
Blank (BGD0571-BLK1)				Prepared & Analyzed: 04/18/23						
Acenaphthene	ND	10.0	ug/l							
Acenaphthylene	ND	10.0	"							
Anthracene	ND	10.0	"							
Bis(2-ethylhexyl)adipate	ND	10.0	"							
Benzo (a) anthracene	ND	10.0	"							
Benzo (b) fluoranthene	ND	10.0	"							
Benzo (k) fluoranthene	ND	20.0	"							
Benzo (g,h,i) perylene	ND	10.0	"							
Benzo (a) pyrene	ND	10.0	"							
Benzyl alcohol	ND	10.0	"							
Pyridine	ND	10.0	"							
Bis(2-chloroethoxy)methane	ND	10.0	"							
N-Nitrosodimethylamine	ND	10.0	"							
Bis(2-chloroethyl)ether	ND	10.0	"							
Bis(2-chloroisopropyl)ether	ND	10.0	"							
Bis(2-ethylhexyl)phthalate	ND	10.0	"							
4-Bromophenyl phenyl ether	ND	10.0	"							
Butyl benzyl phthalate	ND	10.0	"							
4-Chloroaniline	ND	10.0	"							
4-Chloro-3-methylphenol	ND	10.0	"							
2-Chloronaphthalene	ND	10.0	"							
2-Chlorophenol	ND	10.0	"							
4-Chlorophenyl phenyl ether	ND	10.0	"							
Chrysene	ND	10.0	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Dibenzofuran	ND	10.0	"							
Di-n-butyl phthalate	ND	10.0	"							
1,2-Dichlorobenzene	ND	10.0	"							
1,3-Dichlorobenzene	ND	10.0	"							
1,4-Dichlorobenzene	ND	10.0	"							
2,4-Dichlorophenol	ND	10.0	"							
Diethyl phthalate	ND	10.0	"							
2,4-Dimethylphenol	ND	10.0	"							
Carbazole	ND	10.0	"							
Dimethyl phthalate	ND	10.0	"							
4,6-Dinitro-2-methylphenol	ND	10.0	"							
2,4-Dinitrophenol	ND	10.0	"							
Azobenzene	ND	10.0	"							

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0571 - EPA 5030 Water MS										
Blank (BGD0571-BLK1)				Prepared & Analyzed: 04/18/23						
2,4-Dinitrotoluene	ND	10.0	ug/l							
2,6-Dinitrotoluene	ND	10.0	"							
Di-n-octyl phthalate	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Hexachlorobenzene	ND	10.0	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Isophorone	ND	10.0	"							
2-Methylphenol	ND	10.0	"							
4-Methylphenol	ND	10.0	"							
1,2-Dinitrobenzene	ND	10.0	"							
2-Nitroaniline	ND	10.0	"							
1,3-Dinitrobenzene	ND	10.0	"							
3-Nitroaniline	ND	10.0	"							
1,4-Dinitrobenzene	ND	10.0	"							
4-Nitroaniline	ND	10.0	"							
Nitrobenzene	ND	10.0	"							
2-Nitrophenol	ND	10.0	"							
4-Nitrophenol	ND	10.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
2,3,4,6-Tetrachlorophenol	ND	10.0	"							
Pentachlorophenol	ND	10.0	"							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Aniline	ND	10.0	"							
Pyrene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
2,4,5-Trichlorophenol	ND	10.0	"							
2,4,6-Trichlorophenol	ND	10.0	"							
2-Methylnaphthalene	ND	10.0	"							
1-Methylnaphthalene	ND	10.0	"							
Naphthalene	ND	10.0	"							
3,3´-Dichlorobenzidine	ND	30.0	"							
Surrogate: 2-Fluorophenol	*99.6*		*"*	*100*		*99.6*	*20-120*			
Surrogate: Phenol-d5	*85.2*		*"*	*100*		*85.2*	*20-120*			

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Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0571 - EPA 5030 Water MS										
Blank (BGD0571-BLK1)				Prepared & Analyzed: 04/18/23						
Surrogate: Nitrobenzene-d5	*107*		*ug/l*	*100*		*107*	*20-120*			
Surrogate: 2-Fluorobiphenyl	*97.0*		*"*	*100*		*97.0*	*20-120*			
Surrogate: 2,4,6-Tribromophenol	*94.4*		*"*	*100*		*94.4*	*20-120*			
Surrogate: Terphenyl-dl4	*65.1*		*"*	*100*		*65.1*	*20-120*			
LCS (BGD0571-BS1)				Prepared & Analyzed: 04/18/23						
Acenaphthene	87.6	10.0	ug/l	100		87.6	20-120			
4-Chloro-3-methylphenol	164	10.0	"	200		82.2	20-120			
2-Chlorophenol	171	10.0	"	200		85.5	20-120			
1,4-Dichlorobenzene	86.3	10.0	"	100		86.3	20-120			
2,4-Dinitrotoluene	85.0	10.0	"	100		85.0	20-120			
4-Nitrophenol	202	10.0	"	200		101	20-120			
N-Nitrosodi-n-propylamine	62.3	10.0	"	100		62.3	20-120			
Pentachlorophenol	226	10.0	"	200		113	20-120			
Phenol	153	10.0	"	200		76.3	20-120			
Pyrene	65.3	10.0	"	100		65.3	20-120			
1,2,4-Trichlorobenzene	99.2	10.0	"	100		99.2	20-120			
Surrogate: 2-Fluorophenol	*108*		*"*	*100*		*108*	*20-120*			
Surrogate: Phenol-d5	*90.2*		*"*	*100*		*90.2*	*20-120*			
Surrogate: Nitrobenzene-d5	*110*		*"*	*100*		*110*	*20-120*			
Surrogate: 2-Fluorobiphenyl	*95.1*		*"*	*100*		*95.1*	*20-120*			
Surrogate: 2,4,6-Tribromophenol	*104*		*"*	*100*		*104*	*20-120*			
Surrogate: Terphenyl-dl4	*63.8*		*"*	*100*		*63.8*	*20-120*			
LCS Dup (BGD0571-BSD1)				Prepared & Analyzed: 04/18/23						
Acenaphthene	89.8	10.0	ug/l	100		89.8	20-120	2.50	30	
4-Chloro-3-methylphenol	160	10.0	"	200		79.8	20-120	2.95	30	
2-Chlorophenol	168	10.0	"	200		84.2	20-120	1.54	30	
1,4-Dichlorobenzene	85.4	10.0	"	100		85.4	20-120	1.00	30	
2,4-Dinitrotoluene	86.6	10.0	"	100		86.6	20-120	1.84	30	
4-Nitrophenol	209	10.0	"	200		104	20-120	3.23	30	
N-Nitrosodi-n-propylamine	61.3	10.0	"	100		61.3	20-120	1.65	30	
Pentachlorophenol	210	10.0	"	200		105	20-120	7.57	30	
Phenol	150	10.0	"	200		74.8	20-120	1.99	30	
Pyrene	69.3	10.0	"	100		69.3	20-120	5.97	30	
1,2,4-Trichlorobenzene	99.7	10.0	"	100		99.7	20-120	0.543	30	
Surrogate: 2-Fluorophenol	*105*		*"*	*100*		*105*	*20-120*			
Surrogate: Phenol-d5	*88.8*		*"*	*100*		*88.8*	*20-120*			

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Semivolatile Organic Compounds by EPA Method 8270D - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0571 - EPA 5030 Water MS										
LCS Dup (BGD0571-BSD1)				Prepared & Analyzed: 04/18/23						
Surrogate: Nitrobenzene-d5	*111*		*ug/l*	*100*		*111*	*20-120*			
Surrogate: 2-Fluorobiphenyl	*97.0*		*"*	*100*		*97.0*	*20-120*			
Surrogate: 2,4,6-Tribromophenol	*105*		*"*	*100*		*105*	*20-120*			
Surrogate: Terphenyl-dl4	*68.6*		*"*	*100*		*68.6*	*20-120*			

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0563 - EPA 200.8										
Blank (BGD0563-BLK1)				Prepared: 04/18/23 Analyzed: 04/19/23						
Aluminum	ND	50.0	ug/l							
Vanadium	ND	0.0500	"							
Uranium	ND	0.500	"							
Antimony	ND	0.0500	"							
Arsenic	ND	0.600	"							
Barium	ND	1.00	"							
Beryllium	ND	0.100	"							
Boron	ND	10.0	"							
Cadmium	ND	0.0500	"							
Cobalt	ND	1.00	"							
Chromium	ND	1.00	"							
Copper	ND	1.00	"							
Iron	ND	10.0	"							
Lead	ND	0.500	"							
Manganese	ND	1.00	"							
Molybdenum	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	1.00	"							
Silver	ND	0.250	"							
Thallium	ND	1.00	"							
Zinc	ND	1.00	"							
LCS (BGD0563-BS1)				Prepared: 04/18/23 Analyzed: 04/19/23						
Aluminum	4610	50.0	ug/l	5000		92.1	85-115			
Antimony	23.8	0.0500	"	25.0		95.0	85-115			
Vanadium	484	0.0500	"	500		96.9	85-115			
Uranium	234	0.500	"	250		93.6	85-115			
Arsenic	496	0.600	"	500		99.3	85-115			
Barium	511	1.00	"	500		102	85-115			
Beryllium	25.7	0.100	"	25.0		103	85-115			
Boron	2720	10.0	"	2500		109	85-115			
Cadmium	23.7	0.0500	"	25.0		94.9	85-115			
Cobalt	471	1.00	"	500		94.2	85-115			
Chromium	476	1.00	"	500		95.2	85-115			
Copper	460	1.00	"	500		92.0	85-115			
Iron	4830	10.0	"	5000		96.6	85-115			
Lead	235	0.500	"	250		93.9	85-115			
Manganese	464	1.00	"	500		92.8	85-115			

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Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0563 - EPA 200.8										
LCS (BGD0563-BS1)				Prepared: 04/18/23 Analyzed: 04/19/23						
Molybdenum	485	1.00	ug/l	500		97.0	85-115			
Nickel	448	1.00	"	500		89.5	85-115			
Selenium	55.5	1.00	"	50.0		111	85-115			
Silver	23.9	0.250	"	25.0		95.4	85-115			
Thallium	12.0	1.00	"	12.5		96.3	85-115			
Zinc	448	1.00	"	500		89.5	85-115			
Duplicate (BGD0563-DUP1)		**Source: 2304265-01**		Prepared: 04/18/23 Analyzed: 04/19/23						
Aluminum	53.6	50.0	ug/l		49.9			7.02	20	
Uranium	18.5	0.500	"		18.4			0.514	20	
Antimony	0.635	0.0500	"		0.640			0.784	20	
Vanadium	0.320	0.0500	"		0.325			1.55	20	
Arsenic	0.590	0.600	"		0.610			3.33	20	
Barium	124	1.00	"		124			0.669	20	
Beryllium	0.0200	0.100	"		0.0200			0.00	20	
Boron	501	10.0	"		504			0.494	20	
Cadmium	1.16	0.0500	"		1.13			2.62	20	
Chromium	0.350	1.00	"		0.660			61.4	20	QR-01
Cobalt	1.23	1.00	"		1.26			2.01	20	
Copper	5.95	1.00	"		6.06			1.91	20	
Iron	303	10.0	"		306			0.997	20	
Lead	1.56	0.500	"		1.58			1.28	20	
Manganese	589	1.00	"		595			1.04	20	
Molybdenum	5.61	1.00	"		5.81			3.50	20	
Nickel	3.27	1.00	"		3.38			3.46	20	
Selenium	2.08	1.00	"		2.34			11.8	20	
Silver	0.0400	0.250	"		0.0350			13.3	20	
Thallium	0.00500	1.00	"		0.00500			0.00	20	J
Zinc	34.5	1.00	"		34.8			0.881	20	

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0563 - EPA 200.8										
Matrix Spike (BGD0563-MS1)	**Source: 2304265-01**			Prepared: 04/18/23 Analyzed: 04/19/23						
Aluminum	4720	50.0	ug/l	5000	49.9	93.4	70-130			
Uranium	261	0.500	"	250	18.4	96.8	70-130			
Vanadium	494	0.0500	"	500	0.325	98.7	70-130			
Antimony	25.1	0.0500	"	25.0	0.640	98.0	70-130			
Arsenic	535	0.600	"	500	0.610	107	70-130			
Barium	640	1.00	"	500	124	103	70-130			
Beryllium	24.9	0.100	"	25.0	0.0200	99.7	70-130			
Boron	3150	10.0	"	2500	504	106	70-130			
Cadmium	25.5	0.0500	"	25.0	1.13	97.4	70-130			
Cobalt	460	1.00	"	500	1.26	91.8	70-130			
Chromium	473	1.00	"	500	0.660	94.5	70-130			
Copper	448	1.00	"	500	6.06	88.4	70-130			
Iron	5110	10.0	"	5000	306	96.0	70-130			
Lead	239	0.500	"	250	1.58	95.0	70-130			
Manganese	1060	1.00	"	500	595	92.3	70-130			
Molybdenum	519	1.00	"	500	5.81	103	70-130			
Nickel	435	1.00	"	500	3.38	86.3	70-130			
Selenium	60.2	1.00	"	50.0	2.34	116	70-130			
Silver	23.6	0.250	"	25.0	0.0350	94.3	70-130			
Thallium	12.2	1.00	"	12.5	0.00500	97.5	70-130			
Zinc	479	1.00	"	500	34.8	88.8	70-130			
Matrix Spike Dup (BGD0563-MSD1)	**Source: 2304265-01**			Prepared: 04/18/23 Analyzed: 04/19/23						
Aluminum	4640	50.0	ug/l	5000	49.9	91.7	70-130	1.80	25	
Antimony	25.0	0.0500	"	25.0	0.640	97.5	70-130	0.439	25	
Uranium	259	0.500	"	250	18.4	96.1	70-130	0.746	25	
Vanadium	481	0.0500	"	500	0.325	96.0	70-130	2.70	25	
Arsenic	525	0.600	"	500	0.610	105	70-130	1.96	25	
Barium	630	1.00	"	500	124	101	70-130	1.46	25	
Beryllium	25.0	0.100	"	25.0	0.0200	99.9	70-130	0.180	25	
Boron	3130	10.0	"	2500	504	105	70-130	0.655	25	
Cadmium	25.2	0.0500	"	25.0	1.13	96.1	70-130	1.24	25	
Chromium	466	1.00	"	500	0.660	93.2	70-130	1.48	25	
Cobalt	453	1.00	"	500	1.26	90.4	70-130	1.53	25	
Copper	448	1.00	"	500	6.06	88.4	70-130	0.0681	25	
Iron	5000	10.0	"	5000	306	93.9	70-130	2.10	25	
Lead	236	0.500	"	250	1.58	93.6	70-130	1.53	25	
Manganese	1040	1.00	"	500	595	89.0	70-130	1.58	25	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Dissolved Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0563 - EPA 200.8										
Matrix Spike Dup (BGD0563-MSD1)	**Source: 2304265-01**			Prepared: 04/18/23 Analyzed: 04/19/23						
Molybdenum	506	1.00	ug/l	500	5.81	100	70-130	2.41	25	
Nickel	432	1.00	"	500	3.38	85.6	70-130	0.764	25	
Selenium	58.6	1.00	"	50.0	2.34	112	70-130	2.67	25	
Silver	23.3	0.250	"	25.0	0.0350	93.2	70-130	1.11	25	
Thallium	12.0	1.00	"	12.5	0.00500	95.6	70-130	2.03	25	
Zinc	472	1.00	"	500	34.8	87.5	70-130	1.37	25	

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Dissolved Mercury by EPA Method 245.1 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0645 - EPA 245.1										
Blank (BGD0645-BLK1)				Prepared: 04/20/23 Analyzed: 04/21/23						
Mercury	ND	0.200	ug/l							
LCS (BGD0645-BS1)				Prepared: 04/20/23 Analyzed: 04/21/23						
Mercury	2.77	0.200	ug/l	2.50		111	85-115			
Duplicate (BGD0645-DUP1)		**Source: 2304347-01**		Prepared: 04/20/23 Analyzed: 04/21/23						
Mercury	ND	0.200	ug/l		ND				20	
Matrix Spike (BGD0645-MS1)		**Source: 2304347-01**		Prepared: 04/20/23 Analyzed: 04/21/23						
Mercury	2.78	0.200	ug/l	2.50	ND	111	75-125			
Matrix Spike Dup (BGD0645-MSD1)		**Source: 2304347-01**		Prepared: 04/20/23 Analyzed: 04/21/23						
Mercury	2.76	0.200	ug/l	2.50	ND	110	75-125	0.722	20	

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0558 - General Preparation										
Blank (BGD0558-BLK1)				Prepared: 04/18/23 Analyzed: 04/21/23						
Bromide	ND	0.200	mg/L							
Chloride	ND	0.0600	"							
Chloride	ND	0.0600	"							
Fluoride	ND	0.0400	"							
Nitrate as N	ND	0.0500	"							
Nitrite as N	ND	0.0600	"							
Orthophosphate as P	ND	0.100	"							
Sulfate	0.0110	0.300	"							
LCS (BGD0558-BS1)				Prepared: 04/18/23 Analyzed: 04/21/23						
Bromide	10.7	0.200	mg/L	10.0		107	90-110			
Chloride	3.21	0.0600	"	3.00		107	90-110			
Chloride	3.21	0.0600	"	3.00		107	90-110			
Fluoride	2.07	0.0400	"	2.00		104	90-110			
Nitrate as N	3.28	0.0500	"	3.00		109	90-110			
Nitrite as N	3.20	0.0600	"	3.00		107	90-110			
Orthophosphate as P	4.87	0.100	"	5.00		97.4	90-110			
Sulfate	16.3	0.300	"	15.0		109	90-110			
Duplicate (BGD0558-DUP1)		**Source: 2304347-01**		Prepared: 04/18/23 Analyzed: 04/21/23						
Bromide	ND	10.0	mg/L		ND				20	
Chloride	156	3.00	"		151			2.90	20	
Chloride	156	3.00	"		151			2.90	20	
Fluoride	2.80	2.00	"		1.85			40.9	20	QR-01
Nitrate as N	13.8	2.50	"		12.0			14.4	20	
Nitrite as N	ND	3.00	"		ND				20	
Orthophosphate as P	2.00	5.00	"		0.800			85.7	20	QR-01
Sulfate	317	15.0	"		264			18.3	20	

Brannan Sand and Gravel	Project: Nix	
2500 E Brannan Way	Project Number: 1-26-267770	**Reported:**
Denver CO, 80229	Project Manager: Scott Legg	05/18/23 15:36

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0558 - General Preparation										
Matrix Spike (BGD0558-MS1)	**Source: 2304347-01**			Prepared: 04/18/23 Analyzed: 04/21/23						
Bromide	585	10.0	mg/L	500	ND	117	80-120			
Chloride	327	3.00	"	150	151	117	80-120			
Chloride	327	3.00	"	150	151	117	80-120			
Fluoride	119	2.00	"	100	1.85	117	80-120			
Nitrate as N	190	2.50	"	150	12.0	119	80-120			
Nitrite as N	174	3.00	"	150	ND	116	80-120			
Orthophosphate as P	270	5.00	"	250	0.800	108	80-120			
Sulfate	1150	15.0	"	750	264	119	80-120			

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0787 - General Preparation										
Blank (BGD0787-BLK1)				Prepared & Analyzed: 04/24/23						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (BGD0787-DUP1)		**Source: 2304347-01**		Prepared & Analyzed: 04/24/23						
Total Dissolved Solids	954	10.0	mg/L		1030			7.81	20	

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

pH by SM4500 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BGD0804 - General Preparation										
LCS (BGD0804-BS1)				Prepared: 04/17/23 Analyzed: 04/24/23						
pH	8.95	1.00	pH Units	9.18		97.5	90-110			
Duplicate (BGD0804-DUP1)		**Source: 2304347-01**		Prepared: 04/17/23 Analyzed: 04/24/23						
pH	7.02	1.00	pH Units		7.02			0.00	20	

ANALYTICAL REPORT

May 15, 2023

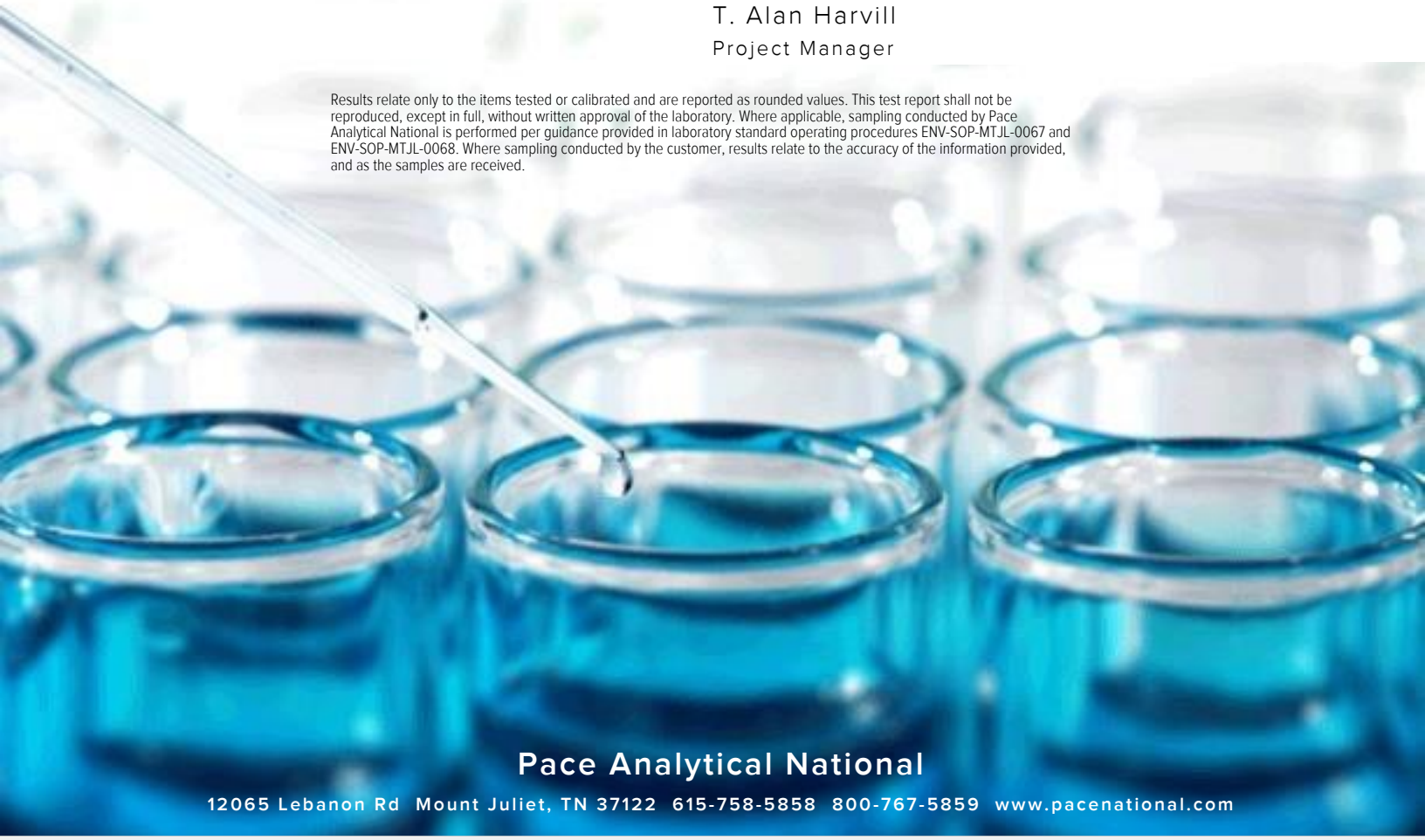
Summit Scientific

Sample Delivery Group:	L1613512
Samples Received:	05/06/2023
Project Number:	2304347
Description:	2304347

Report To: REPORTS
4653 Table Mountain Drive
Golden, CO 80403

Entire Report Reviewed By:

T. Alan Harvill
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

SAMPLE SUMMARY

NIX-OWENS-MON 5A L1613512-01 WW

			Collected by	Collected date/time	Received date/time	
				04/17/23 14:10	05/06/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 200.7	WG2056207	1	05/10/23 11:28	05/11/23 00:54	ABL	Mt. Juliet, TN

NIX-RMCC-MON 6 L1613512-02 WW

			Collected by	Collected date/time	Received date/time	
				04/17/23 14:30	05/06/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 200.7	WG2058950	1	05/13/23 21:17	05/14/23 18:46	ZSA	Mt. Juliet, TN

NIX-RMCC-MON 7 L1613512-03 WW

			Collected by	Collected date/time	Received date/time	
				04/17/23 13:40	05/06/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 200.7	WG2058950	1	05/13/23 21:17	05/14/23 18:49	ZSA	Mt. Juliet, TN

NIX-RMCC-MON 8 L1613512-04 WW

			Collected by	Collected date/time	Received date/time	
				04/17/23 12:50	05/06/23 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 200.7	WG2058950	1	05/13/23 21:17	05/14/23 18:52	ZSA	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lithium,Dissolved	0.0510		0.00689	0.0150	1	05/11/2023 00:54	WG2056207

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lithium,Dissolved	0.0169		0.00689	0.0150	1	05/14/2023 18:46	WG2058950

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lithium,Dissolved	0.0309		0.00689	0.0150	1	05/14/2023 18:49	WG2058950

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lithium,Dissolved	0.0253		0.00689	0.0150	1	05/14/2023 18:52	WG2058950

Method Blank (MB)

(MB) R3923410-1 05/11/23 00:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lithium,Dissolved	U		0.00689	0.0150

Laboratory Control Sample (LCS)

(LCS) R3923410-2 05/11/23 00:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lithium,Dissolved	1.00	0.983	98.3	85.0-115	

L1613512-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1613512-01 05/11/23 00:54 • (MS) R3923410-4 05/11/23 00:59 • (MSD) R3923410-5 05/11/23 01:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lithium,Dissolved	1.00	0.0510	1.07	1.07	102	102	1	70.0-130			0.256	20

Method Blank (MB)

(MB) R3924666-1 05/14/23 18:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lithium,Dissolved	U		0.00689	0.0150

Laboratory Control Sample (LCS)

(LCS) R3924666-5 05/14/23 19:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lithium,Dissolved	1.00	0.954	95.4	85.0-115	

L1614883-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1614883-01 05/14/23 18:36 • (MS) R3924666-3 05/14/23 18:41 • (MSD) R3924666-4 05/14/23 18:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lithium,Dissolved	1.00	0.0273	0.958	0.969	93.1	94.2	1	70.0-130			1.16	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Summit Scientific
4653 Table Mountain Drive
Golden, CO 80403

Billing Information:
Attn: Ben Shrewsbury
Summit Scientific
4653 Table Mountain Drive
Golden, CO 80403

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: **reports**

Email To: **reports@s2scientific.com**

Project Description: 2304347

City/State Collected:

Please Circle: PT MT CT ET

Phone: **303-277-9310**

Client Project #

Lab Project #

SDG # 613512

D229

Collected by (print):

Site/Facility ID #

P.O. #

Acctnum:

Template:

Prelogin:

PM:

PB:

Collected by (signature):

Immediately
Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Dissolved Lithium	Remarks	Sample # (lab only)
Nix-Owens-Mon 5A	Grab	WW		4/17/23	14:10	1	X		-01
Nix-RMCC-Mon 6	Grab	WW		4/17/23	14:30	1	X		-02
Nix-RMCC-Mon 7	Grab	WW		4/17/23	13:40	1	X		-03
Nix-RMCC-Mon 8	Grab	WW		4/17/23	12:50	1	X		-04

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 6357 9922 6836

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	5/5/23	3:07	Dave Conine	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Dave Conine	5/5/23	1800		3.5+0=3.5 4
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Alexa	5/6/23 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 01, 2023

Report to:
Paul Shrewsbury
Summit Scientific
4653 Table Mountain Drive
Suite B
Golden, CO 80401

Bill to:
Paul Shrewsbury
Summit Scientific
4653 Table Mountain Drive
Suite B
Golden, CO 80401

cc: Mikayla Axtell, Michelle Clements

Project ID:
ACZ Project ID: L79956

Paul Shrewsbury:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 19, 2023. This project has been assigned to ACZ's project number, L79956. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L79956. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 31, 2023. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Madeleine Murray
Madeleine Murray has reviewed and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Summit Scientific
Project ID:
Sample ID: NIX-OWENS-MON 5A

ACZ Sample ID: ***L79956-01***
Date Sampled: *04/17/23 14:10*
Date Received: *04/19/23*
Sample Matrix: *Waste Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								04/27/23 10:16	mrd

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/28/23 9:13	mrd

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

Summit Scientific
Project ID:
Sample ID: NIX-RMCC-MON 6

ACZ Sample ID: ***L79956-02***
Date Sampled: *04/17/23 14:30*
Date Received: *04/19/23*
Sample Matrix: *Waste Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								04/27/23 10:26	mrd

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/28/23 9:14	mrd

Summit Scientific
Project ID:
Sample ID: NIX-RMCC-MON 7

ACZ Sample ID: ***L79956-03***
Date Sampled: *04/17/23 13:40*
Date Received: *04/19/23*
Sample Matrix: *Waste Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								04/27/23 10:36	mrd

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/28/23 9:17	mrd

Summit Scientific
Project ID:
Sample ID: NIX-RMCC-MON 8

ACZ Sample ID: ***L79956-04***
Date Sampled: *04/17/23 12:50*
Date Received: *04/19/23*
Sample Matrix: *Waste Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								04/27/23 10:55	mrd

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/28/23 9:19	mrd

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

Summit Scientific

ACZ Project ID: ***L79956***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L79956-01	WG565097	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L79956-02	WG565097	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L79956-03	WG565097	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
L79956-04	WG565097	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

Summit Scientific

ACZ Project ID: ***L79956***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Summit Scientific

ACZ Project ID: L79956
Date Received: 04/19/2023 10:50
Received By:
Date Printed: 4/20/2023

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?		X	

The 'sampled by' field on the Chain of Custody was not completed.

7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
NA40082	2	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Summit Scientific

ACZ Project ID:	L79956
Date Received:	04/19/2023 10:50
Received By:	
Date Printed:	4/20/2023

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L79956

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Paul Shrewsbury	Address: 4653 Table Mountain Drive
Company: Summit Scientific	Golden, CO 80403
E-mail: pshrewsbury@s2scientific.com	Telephone: 303-277-9310

Copy of Report to:

Name: Mikayla Axtell	E-mail: reports@s2scientific.com
Company: Summit Scientific	Telephone: 303-277-9310

Invoice to:

Name: Ben Shrewsbury	Address: 4653 Table Mountain Drive
Company: Summit Scientific	Golden, CO 80403
E-mail: jbreer@s2scientific.com	Telephone: 303-277-9310

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [ ] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: _____ **Sampler's Site Information** **State**_____ **Zip code**_____ **Time Zone**_____

***Sampler's Signature:** _____

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: Project Name: 2304347

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material? [ ]

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	CYANIDE							
Nix-Owens-Mon 5A	4/17/23 14:10	WW	2	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Nix-RMCC-Mon 6	4/17/23 14:30	WW	2	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Nix-RMCC-Mon 7	4/17/23 13:40	WW	2	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
Nix-RMCC-Mon 8	4/17/23 12:50	WW	2	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
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				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please also send invoice to vshrewsbury@s2scientific.com

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	4/18/23 11:00	[signature]	4/19/23
Service Center	4/18/23 1115		10:50

ite - Return with sample. Yellow - Retain for your records.

L79956 Chain of Custod

Brannan Sand and Gravel 2500 E Brannan Way Denver CO, 80229	Project: Nix Project Number: 1-26-267770 Project Manager: Scott Legg	**Reported:** 05/18/23 15:36

Notes and Definitions

QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference