



TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

Prospect Energy LLC
1036 Country Club Estates Drive
Castle Rock, CO 80108

Sampled: 05/18/22
Received: 05/18/22

Sample ID: SS-1
Laboratory ID: C3404-01

Project No.: PW Spill 050922
Matrix: Soil

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
71-43-2	Benzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-88-3	Toluene	< 10	µg/Kg	10	EPA-8260B	05/20/22
100-41-4	Ethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
1330-20-7	Total Xylenes	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-67-8	1,3,5-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
95-63-6	1,2,4-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
7440-38-2	Total Arsenic	< 68	mg/Kg	68	EPA-7061A	06/06/22
7440-39-3	Total Barium	< 15000	mg/Kg	15000	EPA-6020	06/06/22
7440-42-8	Boron (Hot water soluble)	< 2.5	mg/Kg	2.5	EPA-6020	05/24/22
7440-43-9	Total Cadmium	< 71	mg/Kg	71	EPA-6020	06/06/22
7440-50-8	Total Copper	< 3100	mg/Kg	3100	EPA-6020	06/06/22
18540-29-9	Hexavalent Chromium	1.20	mg/Kg	0.25	EPA-7196A	06/07/22
7439-92-1	Total Lead	< 400	mg/Kg	400	EPA-6020	06/06/22
7440-02-0	Total Nickel	< 1500	mg/Kg	1500	EPA-6020	06/06/22
N/A	pH	7.86	units (1:5)		EPA-9045D	06/01/22
7782-49-2	Total Selenium	< 390	mg/Kg	390	EPA-6010B	06/06/22
7740-22-4	Total Silver	< 390	mg/Kg	390	EPA-6020	06/06/22
N/A	SAR	7.9			USDA 60 (20B)	06/01/22
N/A	Specific Conductance	1740	mS/cm @ 25°C		USDA 60 (4)	06/01/22
N/A	TPH	845	mg/Kg	0.5	EPA-8015B Modified	05/31/22
7440-66-6	Total Zinc	< 23000	mg/Kg	23000	EPA-6020	06/06/22

QA/QC SURROGATE RECOVERIES

<u>Compound</u>	<u>% Recovery</u>	<u>% Rec. Limits</u>
Dibromofluoromethane	99	68-120
Toluene-d8	94	81-128
Bromofluorobenzene	98	70-113

Katrina L. Alsum

Katrina L. Alsum
Laboratory Director
Technology Laboratory, Inc.

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relate only to those items tested.



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Received: 05/18/22

Sample ID: SS-1

Project No.: PW Spill 050922

Laboratory ID: C3404-01

Matrix: Soil

CAS Number	Parameter	Result	Units	MDL*	Method	Date Analyzed
91-20-3	Naphthalene	< 50	µg/Kg	50	EPA-8270C	06/06/22
208-96-8	Acenaphthylene	< 50	µg/Kg	50	EPA-8270C	06/06/22
83-32-9	Acenaphthene	< 50	µg/Kg	50	EPA-8270C	06/06/22
86-73-7	Fluorene	< 50	µg/Kg	50	EPA-8270C	06/06/22
85-01-8	Phenanthrene	< 50	µg/Kg	50	EPA-8270C	06/06/22
120-12-7	Anthracene	< 50	µg/Kg	50	EPA-8270C	06/06/22
206-44-0	Fluoranthene	< 50	µg/Kg	50	EPA-8270C	06/06/22
129-00-0	Pyrene	< 50	µg/Kg	50	EPA-8270C	06/06/22
56-55-3	Benzo[a]anthracene	< 50	µg/Kg	50	EPA-8270C	06/06/22
218-01-9	Chrysene	< 50	µg/Kg	50	EPA-8270C	06/06/22
205-99-2	Benzo(b)fluoranthene	< 50	µg/Kg	50	EPA-8270C	06/06/22
207-08-9	Benzo(k)fluoranthene	< 50	µg/Kg	50	EPA-8270C	06/06/22
50-32-8	Benzo[a]pyrene	< 22	µg/Kg	22	EPA-8270C	06/06/22
53-70-3	Dibenzo(a,h)anthracene	< 22	µg/Kg	22	EPA-8270C	06/06/22
193-39-5	Indeno (1,2,3-cd) Pyrene	< 50	µg/Kg	50	EPA-8270C	06/06/22
191-24-2	Benzo(g,h,i)perylene	< 50	µg/Kg	50	EPA-8270C	06/06/22

*The MDLs reported are statistical values and are highly dependent upon matrix and dilution of the sample.

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Nitrobenzene-d5	23	23-120
2-Fluorobiphenyl	30	25-121
Terphenyl-d14	55	18-137

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CERTIFICATE OF ANALYSIS

Prospect Energy LLC
1036 Country Club Estates Drive
Castle Rock, CO 80108

Sampled: 05/18/22

Received: 05/18/22

Sample ID: SS-2

Project No.: PW Spill 050922

Laboratory ID: C3404-02

Matrix: Soil

CAS Number	Parameter	Result	Units	MDL	Method	Date Analyzed
71-43-2	Benzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-88-3	Toluene	< 10	µg/Kg	10	EPA-8260B	05/20/22
100-41-4	Ethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
1330-20-7	Total Xylenes	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-67-8	1,3,5-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
95-63-6	1,2,4-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
7440-38-2	Total Arsenic	< 68	mg/Kg	68	EPA-7061A	06/06/22
7440-39-3	Total Barium	< 15000	mg/Kg	15000	EPA-6020	06/06/22
7440-42-8	Boron (Hot water soluble)	< 2.5	mg/Kg	2.5	EPA-6020	05/24/22
7440-43-9	Total Cadmium	< 71	mg/Kg	71	EPA-6020	06/06/22
7440-50-8	Total Copper	< 3100	mg/Kg	3100	EPA-6020	06/06/22
18540-29-9	Hexavalent Chromium	1.03	mg/Kg	0.25	EPA-7196A	06/07/22
7439-92-1	Total Lead	< 400	mg/Kg	400	EPA-6020	06/06/22
7440-02-0	Total Nickel	< 1500	mg/Kg	1500	EPA-6020	06/06/22
N/A	pH	7.64	units (1:5)		EPA-9045D	06/01/22
7782-49-2	Total Selenium	< 390	mg/Kg	390	EPA-6010B	06/06/22
7740-22-4	Total Silver	< 390	mg/Kg	390	EPA-6020	06/06/22
N/A	SAR	3.7			USDA 60 (20B)	06/01/22
N/A	Specific Conductance	1599	mS/cm @ 25°C		USDA 60 (4)	06/01/22
N/A	TPH	18.3	mg/Kg	0.5	EPA-8015B Modified	05/31/22
7440-66-6	Total Zinc	< 23000	mg/Kg	23000	EPA-6020	06/06/22

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	106	68-120
Toluene-d8	95	81-128
Bromofluorobenzene	91	70-113

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1036 Country Club Estates Drive
Castle Rock, CO 80108

Sampled: 05/18/22
Received: 05/18/22

Sample ID: SS-3
Laboratory ID: C3404-03

Project No.: PW Spill 050922
Matrix: Soil

CAS Number	Parameter	Result	Units	MDL	Method	Date Analyzed
71-43-2	Benzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-88-3	Toluene	< 10	µg/Kg	10	EPA-8260B	05/20/22
100-41-4	Ethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
1330-20-7	Total Xylenes	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-67-8	1,3,5-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
95-63-6	1,2,4-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
7440-38-2	Total Arsenic	< 68	mg/Kg	68	EPA-7061A	06/06/22
7440-39-3	Total Barium	< 15000	mg/Kg	15000	EPA-6020	06/06/22
7440-42-8	Boron (Hot water soluble)	< 2.5	mg/Kg	2.5	EPA-6020	05/24/22
7440-43-9	Total Cadmium	< 71	mg/Kg	71	EPA-6020	06/06/22
7440-50-8	Total Copper	< 3100	mg/Kg	3100	EPA-6020	06/06/22
18540-29-9	Hexavalent Chromium	1.16	mg/Kg	0.25	EPA-7196A	06/07/22
7439-92-1	Total Lead	< 400	mg/Kg	400	EPA-6020	06/06/22
7440-02-0	Total Nickel	< 1500	mg/Kg	1500	EPA-6020	06/06/22
N/A	pH	7.76	units (1:5)		EPA-9045D	06/01/22
7782-49-2	Total Selenium	< 390	mg/Kg	390	EPA-6010B	06/06/22
7740-22-4	Total Silver	< 390	mg/Kg	390	EPA-6020	06/06/22
N/A	SAR	3.7			USDA 60 (20B)	06/01/22
N/A	Specific Conductance	1437	mS/cm @ 25°C		USDA 60 (4)	06/01/22
N/A	TPH	202	mg/Kg	0.5	EPA-8015B Modified	05/31/22
7440-66-6	Total Zinc	< 23000	mg/Kg	23000	EPA-6020	06/06/22

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	102	68-120
Toluene-d8	93	81-128
Bromofluorobenzene	100	70-113

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Sampled: 05/18/22
Received: 05/18/22

Sample ID: SS-4
Laboratory ID: C3404-04

Project No.: PW Spill 050922
Matrix: Soil

CAS Number	Parameter	Result	Units	MDL	Method	Date Analyzed
71-43-2	Benzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-88-3	Toluene	< 10	µg/Kg	10	EPA-8260B	05/20/22
100-41-4	Ethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
1330-20-7	Total Xylenes	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-67-8	1,3,5-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
95-63-6	1,2,4-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
7440-38-2	Total Arsenic	< 68	mg/Kg	68	EPA-7061A	06/06/22
7440-39-3	Total Barium	< 15000	mg/Kg	15000	EPA-6020	06/06/22
7440-42-8	Boron (Hot water soluble)	< 2.5	mg/Kg	2.5	EPA-6020	05/24/22
7440-43-9	Total Cadmium	< 71	mg/Kg	71	EPA-6020	06/06/22
7440-50-8	Total Copper	< 3100	mg/Kg	3100	EPA-6020	06/06/22
18540-29-9	Hexavalent Chromium	0.291	mg/Kg	0.25	EPA-7196A	06/07/22
7439-92-1	Total Lead	< 400	mg/Kg	400	EPA-6020	06/06/22
7440-02-0	Total Nickel	< 1500	mg/Kg	1500	EPA-6020	06/06/22
N/A	pH	8.09	units (1:5)		EPA-9045D	06/01/22
7782-49-2	Total Selenium	< 390	mg/Kg	390	EPA-6010B	06/06/22
7740-22-4	Total Silver	< 390	mg/Kg	390	EPA-6020	06/06/22
N/A	SAR	3.8			USDA 60 (20B)	06/01/22
N/A	Specific Conductance	709	mS/cm @ 25°C		USDA 60 (4)	06/01/22
N/A	TPH	236	mg/Kg	0.5	EPA-8015B Modified	05/31/22
7440-66-6	Total Zinc	< 23000	mg/Kg	23000	EPA-6020	06/06/22

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	105	68-120
Toluene-d8	90	81-128
Bromofluorobenzene	99	70-113

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Sampled: 05/18/22
Received: 05/18/22

Sample ID: SS-5
Laboratory ID: C3404-05

Project No.: PW Spill 050922
Matrix: Soil

CAS Number	Parameter	Result	Units	MDL	Method	Date Analyzed
71-43-2	Benzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-88-3	Toluene	< 10	µg/Kg	10	EPA-8260B	05/20/22
100-41-4	Ethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
1330-20-7	Total Xylenes	< 10	µg/Kg	10	EPA-8260B	05/20/22
108-67-8	1,3,5-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
95-63-6	1,2,4-Trimethylbenzene	< 10	µg/Kg	10	EPA-8260B	05/20/22
7440-38-2	Total Arsenic	< 68	mg/Kg	68	EPA-7061A	06/06/22
7440-39-3	Total Barium	< 15000	mg/Kg	15000	EPA-6020	06/06/22
7440-42-8	Boron (Hot water soluble)	< 2.5	mg/Kg	2.5	EPA-6020	05/24/22
7440-43-9	Total Cadmium	< 71	mg/Kg	71	EPA-6020	06/06/22
7440-50-8	Total Copper	< 3100	mg/Kg	3100	EPA-6020	06/06/22
18540-29-9	Hexavalent Chromium	0.349	mg/Kg	0.25	EPA-7196A	06/07/22
7439-92-1	Total Lead	< 400	mg/Kg	400	EPA-6020	06/06/22
7440-02-0	Total Nickel	< 1500	mg/Kg	1500	EPA-6020	06/06/22
N/A	pH	7.46	units (1:5)		EPA-9045D	06/01/22
7782-49-2	Total Selenium	< 390	mg/Kg	390	EPA-6010B	06/06/22
7740-22-4	Total Silver	< 390	mg/Kg	390	EPA-6020	06/06/22
N/A	SAR	2.6			USDA 60 (20B)	06/01/22
N/A	Specific Conductance	600	mS/cm @ 25°C		USDA 60 (4)	06/01/22
N/A	TPH	22.7	mg/Kg	0.5	EPA-8015B Modified	05/31/22
7440-66-6	Total Zinc	< 23000	mg/Kg	23000	EPA-6020	06/06/22

QA/QC SURROGATE RECOVERIES

Compound	% Recovery	% Rec. Limits
Dibromofluoromethane	104	68-120
Toluene-d8	93	81-128
Bromofluorobenzene	89	70-113

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