

STATE OF
COLORADO

EnviroScan - DNR, OGCC <dnr_ogcc.enviroscan@state.co.us>

Fwd: Test results for La Boca Pit

1 message

Fischer - DNR, Alex <alex.fischer@state.co.us>

Wed, Oct 21, 2015 at 7:14 AM

To: OGCC EnviroScan - DNR <dnr_ogcc.enviroscan@state.co.us>

Please upload the email and attachment as one PDF with the following information:

Unique identifier (REM/Spill/NOAV #, etc.): Complaint 200397549

Document number (leave blank if one needs to be assigned):

Date received: 10/21/2015

Is data entry needed (Y/N): N

Notes: COGCC Oct 21, 2015 email to Crossfire's request

Thanks!

—

Alex Fischer, P.G.

Environmental Supervisor, Western Colorado



P 303.894.2100 x5138 | F 303.894.2109

1120 Lincoln Street, Suite 801, Denver, CO 80203

| alex.fischer@state.co.us www.colorado.gov/cogcc

----- Forwarded message -----

From: **Fischer - DNR, Alex** <alex.fischer@state.co.us>

Date: Wed, Oct 21, 2015 at 7:11 AM

Subject: Re: Test results for La Boca Pit

To: Deb Koenig <deb@crossfire-llc.com>

Deb,

Attached, please find a copy of the analytical report. Additionally, you can access all documents as they pertain to this alleged complaint through the following process.

On the COGCC Home Page

go to DATABASE,
then Inspection/Incident,
then Check Complaint and enter 200397549 in Document Number, and
Click on the hyper link and the Doc.

Any questions please call and I can walk your through this.

Thanks
Alex

On Tue, Oct 20, 2015 at 3:10 PM, Deb Koenig <deb@crossfire-llc.com> wrote:

Good afternoon Alex. Back in February of 2014 you received and investigated a complaint of illegal dumping (Case # 200397549) in our La Boca Gravel Pit. I have attached the Complaint Report and the subsequent email you sent me.

An inspection of our facility was recently conducted by Colo. Division of Reclamation, Mine and Safety (DRMS). Because these allocations were made against us DRMS has asked that we produce copies of the soil testing that your inspector, Joe McLaren collected on Feb. 24, 2014. Could you please send those results to me?

Thank you for your assistance.



Deb Koenig

Permit and Regulatory Compliance Manager

820 Airport Road

Durango, CO 81303

cell 970-946-1866

office 970-884-4869 ext 2822

fax 970-403-1129

—

Alex Fischer, P.G.

Environmental Supervisor, Western Colorado



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1402178 FINAL 031314 1410 (6).pdf
643K



75 Suttle Street
Durango, CO 81303
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13 March 2014

Joe MacLaren
Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango, CO 81302
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 02/25/14 14:30.
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is cursive and fluid, with the first name 'Debbie' and last name 'Zufelt' clearly legible.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South End Hydrovac Pit	1402178-01	Solid	02/25/14 13:00	02/25/14 14:30
Middle Hydrovac Pit	1402178-02	Solid	02/25/14 13:15	02/25/14 14:30
North End Hydrovac Pit	1402178-03	Solid	02/25/14 13:30	02/25/14 14:30

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

South End Hydrovac Pit**1402178-01 (Solid)**

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

% Dry Solids	81.0			%	1	02/28/14	EPA160.3		LLG
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Saturated Paste Extraction

Calcium	67.0	1.00	0.004	mg/kg dry	1	03/11/14	EPA200.7		JGS
Conductivity	480			umhos/cm	1	03/11/14	ASA#9 10-3.3		JAW
Magnesium	8.16	1.00	0.019	mg/kg dry	1	03/11/14	EPA200.7		JGS
pH	7.74			pH Units	1	03/11/14	ASA#9 12-2.6		JAW
SAR	0.99			[blank]	1	03/11/14	Calculation		JGS
Sodium	32.4	1.00	0.004	mg/kg dry	1	03/11/14	EPA200.7		JGS

Total Metals by ICP

Barium	419	1.00	0.384	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.198	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Chromium	6.92	5.00	0.545	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Copper	13.9	2.00	0.223	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Lead	10.8	10.0	2.40	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Nickel	9.99	5.00	1.77	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Selenium	<20.0	20.0	4.04	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Silver	<5.00	5.00	0.149	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Zinc	87.0	5.00	0.254	mg/kg dry	100	03/11/14	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	3.12	0.500	0.138	mg/kg dry	1000	03/04/14	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.125	0.125	0.0128	mg/kg dry	505	02/26/14	EPA7471		JGS
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Debbie Zufelt, Reports Manager

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

South End Hydrovac Pit**1402178-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Hot Water Extractable

Boron	<1.50	1.50	0.163	mg/kg dry	5	03/11/14	EPA200.7		JGS
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.04	mg/kg	1	03/01/14	8015B		ms
DRO >C10-C28	<10.0	10.0	8.93	mg/kg	1	03/01/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	8.93	mg/kg	1	03/01/14	8015B		ms

Surrogate: 1-Chlorooctane	70.6 %	65.2-140	03/01/14	8015B	ms
Surrogate: 1-Chlorooctadecane	79.3 %	63.6-154	03/01/14	8015B	ms

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.050	0.050	0.013	mg/kg	50	03/03/14	8260B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	03/03/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	03/03/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	03/03/14	8260B		MS
Total BTEX	<0.300	0.300	0.034	mg/kg	50	03/03/14	8260B		MS

Surrogate: Dibromofluoromethane	97.3 %	61.3-142	03/03/14	8260B	MS
Surrogate: Toluene-d8	101 %	71.3-129	03/03/14	8260B	MS
Surrogate: 4-Bromofluorobenzene	104 %	65.7-141	03/03/14	8260B	MS

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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

South End Hydrovac Pit**1402178-01 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories**Semivolatile Organic Compounds by GCMS**

Naphthalene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040		mg/kg	40	03/12/14	8270C		MS
1-Methylnaphthalene	<0.040	0.040		mg/kg	40	03/12/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Phenanthrene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	03/12/14	8270C		MS
Fluoranthene	0.111	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Pyrene	0.106	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Benzo[a]anthracene	0.043	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Chrysene	0.058	0.040	0.005	mg/kg	40	03/12/14	8270C		MS
Benzo[b]fluoranthene	0.043	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Benzo[a]pyrene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	03/12/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	03/12/14	8270C		MS

Surrogate: Nitrobenzene-d5	28.8 %	16.1-91.8			03/12/14	8270C		MS
Surrogate: 2-Fluorobiphenyl	30.8 %	27.2-92.9			03/12/14	8270C		MS
Surrogate: Terphenyl-d14	86.6 %	21.3-96.1			03/12/14	8270C		MS

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Middle Hydrovac Pit**1402178-02 (Solid)**

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

% Dry Solids	75.8			%	1	02/28/14	EPA160.3		LLG
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Saturated Paste Extraction

Calcium	70.2	1.00	0.004	mg/kg dry	1	03/11/14	EPA200.7		JGS
Conductivity	570			umhos/cm	1	03/11/14	ASA#9 10-3.3		JAW
Magnesium	16.5	1.00	0.019	mg/kg dry	1	03/11/14	EPA200.7		JGS
pH	7.91			pH Units	1	03/11/14	ASA#9 12-2.6		JAW
SAR	1.18			[blank]	1	03/11/14	Calculation		JGS
Sodium	42.2	1.00	0.004	mg/kg dry	1	03/11/14	EPA200.7		JGS

Total Metals by ICP

Barium	377	1.00	0.384	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.198	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Chromium	11.4	5.00	0.545	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Copper	16.5	2.00	0.223	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Lead	14.6	10.0	2.40	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Nickel	12.0	5.00	1.77	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Selenium	<20.0	20.0	4.04	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Silver	<5.00	5.00	0.149	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Zinc	64.1	5.00	0.254	mg/kg dry	100	03/11/14	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	3.38	0.500	0.138	mg/kg dry	1000	03/04/14	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.129	0.129	0.0133	mg/kg dry	490	02/26/14	EPA7471		JGS
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Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Middle Hydrovac Pit**1402178-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Hot Water Extractable

Boron	<1.50	1.50	0.163	mg/kg dry	5	03/11/14	EPA200.7		JGS
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.04	mg/kg	1	03/03/14	8015B		ms
DRO >C10-C28	<10.0	10.0	8.93	mg/kg	1	03/03/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	8.93	mg/kg	1	03/03/14	8015B		ms

Surrogate: 1-Chlorooctane	94.9 %	65.2-140	03/03/14	8015B	ms
Surrogate: 1-Chlorooctadecane	96.5 %	63.6-154	03/03/14	8015B	ms

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.050	0.050	0.013	mg/kg	50	03/03/14	8260B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	03/03/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	03/03/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	03/03/14	8260B		MS
Total BTEX	<0.300	0.300	0.034	mg/kg	50	03/03/14	8260B		MS

Surrogate: Dibromofluoromethane	98.7 %	61.3-142	03/03/14	8260B	MS
Surrogate: Toluene-d8	103 %	71.3-129	03/03/14	8260B	MS
Surrogate: 4-Bromofluorobenzene	104 %	65.7-141	03/03/14	8260B	MS

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Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Middle Hydrovac Pit**1402178-02 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- **Cardinal Laboratories**

Semivolatile Organic Compounds by GCMS

Naphthalene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040		mg/kg	40	03/12/14	8270C		MS
1-Methylnaphthalene	<0.040	0.040		mg/kg	40	03/12/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Phenanthrene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	03/12/14	8270C		MS
Fluoranthene	<0.040	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	03/12/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Benzo[a]pyrene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	03/12/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	03/12/14	8270C		MS

Surrogate: Nitrobenzene-d5	27.4 %	16.1-91.8	03/12/14	8270C	MS
Surrogate: 2-Fluorobiphenyl	34.9 %	27.2-92.9	03/12/14	8270C	MS
Surrogate: Terphenyl-d14	94.1 %	21.3-96.1	03/12/14	8270C	MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

North End Hydrovac Pit**1402178-03 (Solid)**

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

% Dry Solids	72.4			%	1	02/28/14	EPA160.3		LLG
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Saturated Paste Extraction

Calcium	60.6	1.00	0.004	mg/kg dry	1	03/11/14	EPA200.7		JGS
Conductivity	480			umhos/cm	1	03/11/14	ASA#9 10-3.3		JAW
Magnesium	12.5	1.00	0.019	mg/kg dry	1	03/11/14	EPA200.7		JGS
pH	8.02			pH Units	1	03/11/14	ASA#9 12-2.6		JAW
SAR	1.15			[blank]	1	03/11/14	Calculation		JGS
Sodium	37.5	1.00	0.004	mg/kg dry	1	03/11/14	EPA200.7		JGS

Total Metals by ICP

Barium	305	1.00	0.384	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.198	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Chromium	12.5	5.00	0.545	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Copper	22.8	2.00	0.223	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Lead	27.8	10.0	2.40	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Nickel	14.5	5.00	1.77	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Selenium	<20.0	20.0	4.04	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Silver	<5.00	5.00	0.149	mg/kg dry	100	03/11/14	EPA6010 B		JGS
Zinc	180	5.00	0.254	mg/kg dry	100	03/11/14	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	3.04	0.500	0.138	mg/kg dry	1000	03/04/14	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.142	0.142	0.0146	mg/kg dry	515	02/26/14	EPA7471		JGS
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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

North End Hydrovac Pit**1402178-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Hot Water Extractable

Boron	<1.50	1.50	0.163	mg/kg dry	5	03/11/14	EPA200.7		JGS
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Subcontracted -- Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.04	mg/kg	1	03/03/14	8015B		ms
DRO >C10-C28	<10.0	10.0	8.93	mg/kg	1	03/03/14	8015B		ms
EXT DRO >C28-C35	<10.0	10.0	8.93	mg/kg	1	03/03/14	8015B		ms

Surrogate: 1-Chlorooctane	107 %	65.2-140	03/03/14	8015B	ms
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Surrogate: 1-Chlorooctadecane	111 %	63.6-154	03/03/14	8015B	ms
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Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.050	0.050	0.013	mg/kg	50	03/03/14	8260B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	03/03/14	8260B		MS
Ethylbenzene*	<0.050	0.050	0.014	mg/kg	50	03/03/14	8260B		MS
Total Xylenes*	<0.150	0.150	0.042	mg/kg	50	03/03/14	8260B		MS
Total BTEX	<0.300	0.300	0.034	mg/kg	50	03/03/14	8260B		MS

Surrogate: Dibromofluoromethane	100 %	61.3-142	03/03/14	8260B	MS
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Surrogate: Toluene-d8	103 %	71.3-129	03/03/14	8260B	MS
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Surrogate: 4-Bromofluorobenzene	102 %	65.7-141	03/03/14	8260B	MS
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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

North End Hydrovac Pit**1402178-03 (Solid)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories**Semivolatile Organic Compounds by GCMS**

Naphthalene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
2-Methylnaphthalene	<0.040	0.040		mg/kg	40	03/12/14	8270C		MS
1-Methylnaphthalene	<0.040	0.040		mg/kg	40	03/12/14	8270C		MS
Acenaphthylene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Acenaphthene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Fluorene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Phenanthrene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Carbazole	<0.040	0.040	0.004	mg/kg	40	03/12/14	8270C		MS
Fluoranthene	<0.040	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Pyrene	<0.040	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Benzo[a]anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Chrysene	<0.040	0.040	0.005	mg/kg	40	03/12/14	8270C		MS
Benzo[b]fluoranthene	<0.040	0.040	0.003	mg/kg	40	03/12/14	8270C		MS
Benzo[k]fluoranthene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Benzo[a]pyrene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.040	0.040	0.001	mg/kg	40	03/12/14	8270C		MS
Dibenz[a,h]anthracene	<0.040	0.040	0.002	mg/kg	40	03/12/14	8270C		MS
Benzo[g,h,i]perylene	<0.040	0.040	0.001	mg/kg	40	03/12/14	8270C		MS

Surrogate: Nitrobenzene-d5	8.44 %	16.1-91.8			03/12/14	8270C	S-04	MS
Surrogate: 2-Fluorobiphenyl	22.2 %	27.2-92.9			03/12/14	8270C	S-04	MS
Surrogate: Terphenyl-d14	70.3 %	21.3-96.1			03/12/14	8270C		MS

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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Saturated Paste Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B403069 - Dissolved Metals, E200.7/E200.8

Duplicate (B403069-DUP1)		Source: 1402178-03			Prepared & Analyzed: 03/11/14					
Calcium	61.5	1.00	mg/kg dry		60.6			1.33	20	
Magnesium	17.3	1.00	mg/kg dry		12.5			32.3	20	R1
Sodium	37.4	1.00	mg/kg dry		37.5			0.429	20	

Batch B403070 - General Prep - Wet Chem

Duplicate (B403070-DUP1)		Source: 1402178-03			Prepared & Analyzed: 03/11/14					
pH	8.06		pH Units		8.02			0.498	20	

Batch B403071 - General Prep - Wet Chem

Duplicate (B403071-DUP1)		Source: 1402178-03			Prepared & Analyzed: 03/11/14					
Conductivity	530		umhos/cm		480			9.90	20	

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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Total Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B403065 - EPA 3050

Blank (B403065-BLK1)

Prepared & Analyzed: 03/11/14

Barium	ND	0.010	mg/kg dry
Cadmium	ND	0.050	mg/kg dry
Chromium	ND	0.050	mg/kg dry
Copper	ND	0.020	mg/kg dry
Lead	ND	0.100	mg/kg dry
Nickel	ND	0.050	mg/kg dry
Selenium	ND	0.200	mg/kg dry
Silver	ND	0.050	mg/kg dry
Zinc	ND	0.050	mg/kg dry

LCS (B403065-BS1)

Prepared & Analyzed: 03/11/14

Barium	1.82	0.010	mg/kg dry	2.00	90.8	85-115
Cadmium	1.82	0.050	mg/kg dry	2.00	91.0	85-115
Chromium	1.89	0.050	mg/kg dry	2.00	94.7	85-115
Copper	3.61	0.020	mg/kg dry	4.00	90.3	85-115
Lead	1.95	0.100	mg/kg dry	2.00	97.7	85-115
Nickel	1.73	0.050	mg/kg dry	2.00	86.3	85-115
Selenium	7.51	0.200	mg/kg dry	8.00	93.9	85-115
Silver	0.093	0.050	mg/kg dry	0.100	92.9	85-115
Zinc	1.78	0.050	mg/kg dry	2.00	89.2	85-115

LCS Dup (B403065-BSD1)

Prepared & Analyzed: 03/11/14

Barium	1.79	0.010	mg/kg dry	2.00	89.7	85-115	1.13	20
Cadmium	1.80	0.050	mg/kg dry	2.00	90.1	85-115	0.994	20
Chromium	1.88	0.050	mg/kg dry	2.00	94.1	85-115	0.657	20
Copper	3.60	0.020	mg/kg dry	4.00	90.1	85-115	0.235	20
Lead	1.94	0.100	mg/kg dry	2.00	96.9	85-115	0.845	20
Nickel	1.72	0.050	mg/kg dry	2.00	86.1	85-115	0.191	20
Selenium	7.42	0.200	mg/kg dry	8.00	92.8	85-115	1.13	20
Silver	0.091	0.050	mg/kg dry	0.100	90.9	85-115	2.16	20
Zinc	1.76	0.050	mg/kg dry	2.00	88.1	85-115	1.25	20

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Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Total Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B403002 - EPA 3050M

Blank (B403002-BLK1)

Prepared & Analyzed: 03/04/14

Arsenic ND 0.0005 mg/kg dry

LCS (B403002-BS1)

Prepared & Analyzed: 03/04/14

Arsenic 0.0474 0.0005 mg/kg dry 0.0500 94.9 85-115

LCS Dup (B403002-BSD1)

Prepared & Analyzed: 03/04/14

Arsenic 0.0476 0.0005 mg/kg dry 0.0500 95.2 85-115 0.393 20

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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B402182 - EPA 7471

Blank (B402182-BLK1)

Prepared & Analyzed: 02/26/14

Mercury	ND	0.0002	mg/kg wet
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LCS (B402182-BS1)

Prepared & Analyzed: 02/26/14

Mercury	0.0021	0.0002	mg/kg wet	0.00200	103	85-115
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LCS Dup (B402182-BSD1)

Prepared & Analyzed: 02/26/14

Mercury	0.0021	0.0002	mg/kg wet	0.00200	106	85-115	2.93	20
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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Hot Water Extractable - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B403068 - Hot Water Soluble Metals Extract

Blank (B403068-BLK1)

Prepared & Analyzed: 03/11/14

Boron	ND	0.300	mg/kg dry
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LCS (B403068-BS1)

Prepared & Analyzed: 03/11/14

Boron	4.71	0.300	mg/kg dry	5.00	94.1	85-115
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LCS Dup (B403068-BSD1)

Prepared & Analyzed: 03/11/14

Boron	4.65	0.300	mg/kg dry	5.00	93.0	85-115	1.18	20
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Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4022804 - General Prep - Organics

Blank (4022804-BLK1)

Prepared: 02/28/14 Analyzed: 03/01/14

Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	63.6-154			
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	65.2-140			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

LCS (4022804-BS1)

Prepared: 02/28/14 Analyzed: 03/01/14

Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	63.6-154			
Surrogate: 1-Chlorooctane	53.1		mg/kg	50.0		106	65.2-140			
DRO >C10-C28	212	10.0	mg/kg	200		106	61.6-132			
GRO C6-C10	217	10.0	mg/kg	200		108	66.4-124			
Total TPH C6-C28	428	10.0	mg/kg	400		107	69.7-122			

LCS Dup (4022804-BS1)

Prepared: 02/28/14 Analyzed: 03/01/14

Surrogate: 1-Chlorooctadecane	53.3		mg/kg	50.0		107	63.6-154			
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	65.2-140			
DRO >C10-C28	212	10.0	mg/kg	200		106	61.6-132	0.309	23.1	
GRO C6-C10	224	10.0	mg/kg	200		112	66.4-124	3.10	23.4	
Total TPH C6-C28	436	10.0	mg/kg	400		109	69.7-122	1.73	20.6	

Batch 4022813 - General Prep - Organics

Blank (4022813-BLK1)

Prepared: 02/28/14 Analyzed: 03/03/14

Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	63.6-154			
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	65.2-140			
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
GRO C6-C10	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							

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Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Petroleum Hydrocarbons by GC FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4022813 - General Prep - Organics

LCS (4022813-BS1)

Prepared: 02/28/14 Analyzed: 03/03/14

Surrogate: 1-Chlorooctadecane	53.9		mg/kg	50.0		108	63.6-154			
Surrogate: 1-Chlorooctane	51.7		mg/kg	50.0		103	65.2-140			
DRO >C10-C28	197	10.0	mg/kg	200		98.7	61.6-132			
GRO C6-C10	206	10.0	mg/kg	200		103	66.4-124			
Total TPH C6-C28	403	10.0	mg/kg	400		101	69.7-122			

LCS Dup (4022813-BSD1)

Prepared: 02/28/14 Analyzed: 03/03/14

Surrogate: 1-Chlorooctadecane	50.3		mg/kg	50.0		101	63.6-154			
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.7	65.2-140			
DRO >C10-C28	182	10.0	mg/kg	200		90.8	61.6-132	8.31	23.1	
GRO C6-C10	190	10.0	mg/kg	200		95.1	66.4-124	7.94	23.4	
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	69.7-122	8.12	20.6	

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PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4030305 - Volatiles

Blank (4030305-BLK1)

Prepared & Analyzed: 03/03/14

Surrogate: 4-Bromofluorobenzene	0.498		mg/kg	0.500		99.7	65.7-141			
Benzene	ND	0.050	mg/kg							
Surrogate: Dibromofluoromethane	0.498		mg/kg	0.500		99.7	61.3-142			
Ethylbenzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Surrogate: Toluene-d8	0.504		mg/kg	0.500		101	71.3-129			
Total BTEX	ND	0.300	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

LCS (4030305-BS1)

Prepared & Analyzed: 03/03/14

Surrogate: 4-Bromofluorobenzene	0.520		mg/kg	0.500		104	65.7-141			
Benzene	2.27	0.050	mg/kg	2.00		113	76.8-122			
Surrogate: Dibromofluoromethane	0.492		mg/kg	0.500		98.5	61.3-142			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	72.8-128			
m+p - Xylene	4.21	0.100	mg/kg				69.4-129			
o-Xylene	2.05	0.050	mg/kg	2.00		103	70.3-126			
Toluene	2.21	0.050	mg/kg	2.00		111	73.1-129			
Surrogate: Toluene-d8	0.500		mg/kg	0.500		100	71.3-129			
Total Xylenes	6.26	0.150	mg/kg	6.00		104	72-127			

LCS Dup (4030305-BSD1)

Prepared & Analyzed: 03/03/14

Surrogate: 4-Bromofluorobenzene	0.523		mg/kg	0.500		105	65.7-141			
Benzene	2.28	0.050	mg/kg	2.00		114	76.8-122	0.367	18.7	
Surrogate: Dibromofluoromethane	0.488		mg/kg	0.500		97.7	61.3-142			
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	72.8-128	0.277	21.8	
m+p - Xylene	4.26	0.100	mg/kg				69.4-129	1.30	25.3	
o-Xylene	2.06	0.050	mg/kg	2.00		103	70.3-126	0.299	23.6	
Toluene	2.24	0.050	mg/kg	2.00		112	73.1-129	1.13	19.4	
Surrogate: Toluene-d8	0.504		mg/kg	0.500		101	71.3-129			
Total Xylenes	6.32	0.150	mg/kg	6.00		105	72-127	0.971	23.2	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4031107 - SW846-3510

Blank (4031107-BLK1)

Prepared: 03/11/14 Analyzed: 03/12/14

1-Methylnaphthalene	ND	0.040	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.60		mg/kg	2.00		80.2	27.2-92.9			
2-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Naphthalene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.47		mg/kg	2.00		73.6	16.1-91.8			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-dl4	2.48		mg/kg	2.00		124	21.3-96.1			

LCS (4031107-BS1)

Prepared: 03/11/14 Analyzed: 03/12/14

Surrogate: 2-Fluorobiphenyl	1.59		mg/kg	2.00		79.7	27.2-92.9			
2-Methylnaphthalene	0.411	0.040	mg/kg	0.400		103	16.1-146			
Acenaphthene	0.435	0.040	mg/kg	0.400		109	27-143			
Acenaphthylene	0.420	0.040	mg/kg	0.400		105	21.6-144			
Anthracene	0.441	0.040	mg/kg	0.400		110	36.1-149			
Benzo[a]anthracene	0.469	0.040	mg/kg	0.400		117	0-179			
Benzo[a]pyrene	0.438	0.040	mg/kg	0.400		110	2.25-166			
Benzo[b]fluoranthene	0.396	0.040	mg/kg	0.400		98.9	17.6-158			
Benzo[g,h,i]perylene	0.319	0.040	mg/kg	0.400		79.6	0-173			
Benzo[k]fluoranthene	0.452	0.040	mg/kg	0.400		113	10.6-169			
Carbazole	0.530	0.040	mg/kg	0.400		132	29.8-144			
Chrysene	0.454	0.040	mg/kg	0.400		113	35.1-150			
Dibenz[a,h]anthracene	0.371	0.040	mg/kg	0.400		92.8	2.49-177			
Fluoranthene	0.451	0.040	mg/kg	0.400		113	34.6-148			

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Debbie Zufelt, Reports Manager

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4031107 - SW846-3510

LCS (4031107-BS1)

Prepared: 03/11/14 Analyzed: 03/12/14

Fluorene	0.433	0.040	mg/kg	0.400		108	30.9-138			
Indeno[1,2,3-cd]pyrene	0.360	0.040	mg/kg	0.400		90.0	0-181			
Naphthalene	0.444	0.040	mg/kg	0.400		111	5.46-157			
Surrogate: Nitrobenzene-d5	2.08		mg/kg	2.00		104	16.1-91.8			
Phenanthrene	0.474	0.040	mg/kg	0.400		119	38.6-149			
Pyrene	0.499	0.040	mg/kg	0.400		125	24.8-154			
Surrogate: Terphenyl-dl4	2.24		mg/kg	2.00		112	21.3-96.1			

LCS Dup (4031107-BS1)

Prepared: 03/11/14 Analyzed: 03/12/14

Surrogate: 2-Fluorobiphenyl	1.78		mg/kg	2.00		89.0	27.2-92.9			
2-Methylnaphthalene	0.420	0.040	mg/kg	0.400		105	16.1-146	2.25	8.99	
Acenaphthene	0.423	0.040	mg/kg	0.400		106	27-143	2.80	6.99	
Acenaphthylene	0.405	0.040	mg/kg	0.400		101	21.6-144	3.69	14.6	
Anthracene	0.463	0.040	mg/kg	0.400		116	36.1-149	4.85	18.5	
Benzo[a]anthracene	0.420	0.040	mg/kg	0.400		105	0-179	11.1	32.5	
Benzo[a]pyrene	0.436	0.040	mg/kg	0.400		109	2.25-166	0.533	60.5	
Benzo[b]fluoranthene	0.408	0.040	mg/kg	0.400		102	17.6-158	2.98	31.4	
Benzo[g,h,i]perylene	0.479	0.040	mg/kg	0.400		120	0-173	40.2	77.4	
Benzo[k]fluoranthene	0.439	0.040	mg/kg	0.400		110	10.6-169	2.91	44.6	
Carbazole	0.461	0.040	mg/kg	0.400		115	29.8-144	14.0	23.4	
Chrysene	0.435	0.040	mg/kg	0.400		109	35.1-150	4.19	19.4	
Dibenz[a,h]anthracene	0.498	0.040	mg/kg	0.400		124	2.49-177	29.1	63.3	
Fluoranthene	0.470	0.040	mg/kg	0.400		118	34.6-148	4.16	19.7	
Fluorene	0.415	0.040	mg/kg	0.400		104	30.9-138	4.20	13.9	
Indeno[1,2,3-cd]pyrene	0.495	0.040	mg/kg	0.400		124	0-181	31.7	77	
Naphthalene	0.432	0.040	mg/kg	0.400		108	5.46-157	2.74	6.7	
Surrogate: Nitrobenzene-d5	1.67		mg/kg	2.00		83.7	16.1-91.8			
Phenanthrene	0.463	0.040	mg/kg	0.400		116	38.6-149	2.40	14.6	
Pyrene	0.464	0.040	mg/kg	0.400		116	24.8-154	7.18	23	
Surrogate: Terphenyl-dl4	2.86		mg/kg	2.00		143	21.3-96.1			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Colorado Oil and Gas Conservation Commission
PO Box 2651
Durango CO, 81302

Project: Table 910
Project Name / Number: La Boca Dump Site
Project Manager: Joe MacLaren

Reported:
03/13/14 14:10

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

R1 Duplicate sample RPD exceeded laboratory acceptance criteria. BS/BSD RPD was acceptable.

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
*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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CHAIN OF CUSTODY RECORD

Page ____ of ____

Client: Collec

NOTES:

Contact: Joe MacLaren

1) Ensure proper container packaging.

Address:

2) Ship samples promptly following collection.

Phone Number: 970-302-1680

PO#

Table 1. - Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Prod. W., 5 = Oil
6 = Waste, 7 = Other (Specify)

FOR GAL USE ONLY

GAL JOB #

1402-178

Email: Joe.MacLaren@state.co.us Project Name: LA BACA Dunes Signature: [Signature]

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227

Analyses Required

Address: 75 Suttle Street, Durango, CO 81303

www.greenanalytical.com

Sample ID	Collection	Date	Time	Collected by: (Init.)	Miscellaneous				Preservative(s)					Comments		
					Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH	Other (Specify)			
1. Sooty End Hydrova pit	2/25	1:00		[Signature]										X	Table 910.1	170c #18 on ice, just sampled Comments
2. Middle Hydrova pit	2/25	1:15		[Signature]										X		
3. Sooty End Hydrova pit	2/25	1:30		[Signature]										X		
4.																
5.																
6.																
7.																
8.																
9.																
10.																
Relinquished by:	[Signature]	Date: 2-25-14	Time: 4:30	Received by:	[Signature]	Date: 2-25-14	Time: 4:30									
Relinquished by:		Date:	Time:	Received by:		Date:	Time:									
Relinquished by:		Date:	Time:	Received by:		Date:	Time:									

170c #18
on ice,
just sampled