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03 September 2015

Kerry Smith
Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas, TX 75243
RE: Table 910

Enclosed are the results of analyses for samples received by the laboratory on 08/13/15 14:35.
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



Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S4#1	1508196-01	Solid	08/13/15 10:59	08/13/15 14:35
S4#2 Source	1508196-02	Solid	08/13/15 10:56	08/13/15 14:35
S4#3	1508196-03	Solid	08/13/15 10:51	08/13/15 14:35
S4#4	1508196-04	Solid	08/13/15 10:46	08/13/15 14:35
S4#5 Centre	1508196-05	Solid	08/13/15 10:53	08/13/15 14:35

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Debbie Zufelt, Reports Manager

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Monument Global Resources
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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#1**1508196-01 (Solid)**

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

% Dry Solids	96.3			%	1	08/31/15	EPA160.3/2540C	H2	MAJ
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Saturated Paste Extraction

Calcium	42.9	5.00	0.020	mg/L	5	08/31/15	EPA200.7		JGS
Conductivity	425			umhos/cm	1	08/26/15	ASA#9 10-3.3		LLG
Magnesium	5.50	5.00	0.095	mg/L	5	08/31/15	EPA200.7		JGS
pH	7.90			pH Units	1	08/26/15	ASA#9 12-2.6		LLG
SAR	1.73			[blank]	1	08/31/15	Calculation		JGS
Sodium	45.4	10.0	0.020	mg/L	5	08/31/15	EPA200.7		JGS

Total Metals by ICP

Barium	141	1.00	0.191	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.117	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Chromium	5.96	5.00	0.636	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Copper	7.01	2.00	0.650	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Lead	<10.0	10.0	1.84	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Nickel	9.37	5.00	1.55	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.61	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.231	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Zinc	39.6	5.00	0.792	mg/kg dry	100	08/24/15	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	2.76	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.0997	0.0997	0.0108	mg/kg dry	480	09/03/15	EPA7471		JGS
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Debbie Zufelt, Reports Manager

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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#1**1508196-01 (Solid)**

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

Boron	<0.600	0.600	0.065	mg/L	2	08/24/15	EPA200.7		JGS
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Subcontracted -- **Cardinal Laboratories**

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/18/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/18/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/18/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/18/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/18/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	102 %	85.6-137				08/18/15	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/18/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/18/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/18/15	8015B		MS

Surrogate: 1-Chlorooctane	85.9 %	47.2-157				08/18/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	91.6 %	52.1-176				08/18/15	8015B		MS
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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#1

1508196-01 (Solid)

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

Semivolatile Organic Compounds by GCMS

Naphthalene	<0.002	0.040	0.002	mg/kg	40	08/18/15	8270C		MS
2-Methylnaphthalene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
1-Methylnaphthalene	<0.001	0.020	0.001	mg/kg	40	08/18/15	8270C		MS
Acenaphthylene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Acenaphthene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Fluorene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Phenanthrene	<0.006	0.040	0.006	mg/kg	40	08/18/15	8270C		MS
Anthracene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Carbazole	<0.004	0.040	0.004	mg/kg	40	08/18/15	8270C		MS
Fluoranthene	<0.007	0.040	0.007	mg/kg	40	08/18/15	8270C		MS
Pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[a]anthracene	<0.016	0.040	0.016	mg/kg	40	08/18/15	8270C		MS
Chrysene	0.025	0.040	0.003	mg/kg	40	08/18/15	8270C	J	MS
Benzo[b]fluoranthene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[k]fluoranthene	<0.004	0.040	0.004	mg/kg	40	08/18/15	8270C		MS
Benzo[a]pyrene	0.004	0.040	0.003	mg/kg	40	08/18/15	8270C	J	MS
Indeno[1,2,3-cd]pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Dibenz[a,h]anthracene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[g,h,i]perylene	<0.030	0.040	0.030	mg/kg	40	08/18/15	8270C		MS

Surrogate: Nitrobenzene-d5	71.3 %	20.4-109	08/18/15	8270C	MS
Surrogate: 2-Fluorobiphenyl	77.9 %	23.4-133	08/18/15	8270C	MS
Surrogate: Terphenyl-d14	95.2 %	38.4-163	08/18/15	8270C	MS

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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#2 Source**1508196-02 (Solid)**

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

% Dry Solids	94.9			%	1	08/31/15	EPA160.3/2540C	H2	MAJ
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Saturated Paste Extraction

Calcium	405	10.0	0.039	mg/L	10	08/31/15	EPA200.7		JGS
Conductivity	11000			umhos/cm	1	08/26/15	ASA#9 10-3.3		LLG
Magnesium	64.5	10.0	0.190	mg/L	10	08/31/15	EPA200.7		JGS
pH	7.48			pH Units	1	08/26/15	ASA#9 12-2.6		LLG
SAR	18.5			[blank]	1	08/31/15	Calculation		JGS
Sodium	1520	20.0	0.041	mg/L	10	08/31/15	EPA200.7		JGS

Total Metals by ICP

Barium	178	1.00	0.191	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.117	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Chromium	<5.00	5.00	0.636	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Copper	5.34	2.00	0.650	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Lead	<10.0	10.0	1.84	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Nickel	6.37	5.00	1.55	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.61	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.231	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Zinc	28.2	5.00	0.792	mg/kg dry	100	08/24/15	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	2.22	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.105	0.105	0.0114	mg/kg dry	500	09/03/15	EPA7471		JGS
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Debbie Zufelt, Reports Manager

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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#2 Source**1508196-02 (Solid)**

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

Boron	<0.600	0.600	0.065	mg/L	2	08/24/15	EPA200.7		JGS
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	102 %	85.6-137				08/19/15	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/18/15	8015B		MS
DRO >C10-C28	610	10.0	2.91	mg/kg	1	08/18/15	8015B		MS
EXT DRO >C28-C35	135	10.0	2.91	mg/kg	1	08/18/15	8015B		MS

Surrogate: 1-Chlorooctane	85.4 %	47.2-157				08/18/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	95.2 %	52.1-176				08/18/15	8015B		MS
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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#2 Source**1508196-02 (Solid)**

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

Semivolatile Organic Compounds by GCMS

Naphthalene	<0.002	0.040	0.002	mg/kg	40	08/18/15	8270C		MS
2-Methylnaphthalene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
1-Methylnaphthalene	<0.001	0.020	0.001	mg/kg	40	08/18/15	8270C		MS
Acenaphthylene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Acenaphthene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Fluorene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Phenanthrene	<0.006	0.040	0.006	mg/kg	40	08/18/15	8270C		MS
Anthracene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Carbazole	<0.004	0.040	0.004	mg/kg	40	08/18/15	8270C		MS
Fluoranthene	<0.007	0.040	0.007	mg/kg	40	08/18/15	8270C		MS
Pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[a]anthracene	<0.016	0.040	0.016	mg/kg	40	08/18/15	8270C		MS
Chrysene	0.285	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[b]fluoranthene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[k]fluoranthene	<0.004	0.040	0.004	mg/kg	40	08/18/15	8270C		MS
Benzo[a]pyrene	0.134	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Dibenz[a,h]anthracene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[g,h,i]perylene	<0.030	0.040	0.030	mg/kg	40	08/18/15	8270C		MS

Surrogate: Nitrobenzene-d5	103 %	20.4-109	08/18/15	8270C	MS
Surrogate: 2-Fluorobiphenyl	101 %	23.4-133	08/18/15	8270C	MS
Surrogate: Terphenyl-d14	96.5 %	38.4-163	08/18/15	8270C	MS

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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#3**1508196-03 (Solid)**

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

% Dry Solids	97.8			%	1	08/31/15	EPA160.3/2540C	H2	MAJ
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Saturated Paste Extraction

Calcium	72.1	5.00	0.020	mg/L	5	08/31/15	EPA200.7		JGS
Conductivity	501			umhos/cm	1	08/26/15	ASA#9 10-3.3		LLG
Magnesium	7.89	5.00	0.095	mg/L	5	08/31/15	EPA200.7		JGS
pH	7.94			pH Units	1	08/26/15	ASA#9 12-2.6		LLG
SAR	0.56			[blank]	1	08/31/15	Calculation		JGS
Sodium	18.9	10.0	0.020	mg/L	5	08/31/15	EPA200.7		JGS

Total Metals by ICP

Barium	131	1.00	0.191	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.117	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Chromium	<5.00	5.00	0.636	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Copper	4.45	2.00	0.650	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Lead	<10.0	10.0	1.84	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Nickel	5.53	5.00	1.55	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.61	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.231	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Zinc	26.6	5.00	0.792	mg/kg dry	100	08/24/15	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	2.24	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.101	0.101	0.0109	mg/kg dry	495	09/03/15	EPA7471		JGS
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Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#3**1508196-03 (Solid)**

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

Boron	<0.600	0.600	0.065	mg/L	2	08/24/15	EPA200.7		JGS
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Subcontracted -- Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	103 %	85.6-137			08/19/15	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	1.30	mg/kg	1	08/18/15	8015B		MS
DRO >C10-C28	<10.0	10.0	2.91	mg/kg	1	08/18/15	8015B		MS
EXT DRO >C28-C35	<10.0	10.0	2.91	mg/kg	1	08/18/15	8015B		MS

Surrogate: 1-Chlorooctane	86.4 %	47.2-157			08/18/15	8015B		MS
Surrogate: 1-Chlorooctadecane	82.4 %	52.1-176			08/18/15	8015B		MS

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#3

1508196-03 (Solid)

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

Semivolatile Organic Compounds by GCMS

Naphthalene	<0.002	0.040	0.002	mg/kg	40	08/18/15	8270C		MS
2-Methylnaphthalene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
1-Methylnaphthalene	<0.001	0.020	0.001	mg/kg	40	08/18/15	8270C		MS
Acenaphthylene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Acenaphthene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Fluorene	0.010	0.040	0.003	mg/kg	40	08/18/15	8270C	J	MS
Phenanthrene	<0.006	0.040	0.006	mg/kg	40	08/18/15	8270C		MS
Anthracene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Carbazole	<0.004	0.040	0.004	mg/kg	40	08/18/15	8270C		MS
Fluoranthene	<0.007	0.040	0.007	mg/kg	40	08/18/15	8270C		MS
Pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[a]anthracene	<0.016	0.040	0.016	mg/kg	40	08/18/15	8270C		MS
Chrysene	0.007	0.040	0.003	mg/kg	40	08/18/15	8270C	J	MS
Benzo[b]fluoranthene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[k]fluoranthene	<0.004	0.040	0.004	mg/kg	40	08/18/15	8270C		MS
Benzo[a]pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Indeno[1,2,3-cd]pyrene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Dibenz[a,h]anthracene	<0.003	0.040	0.003	mg/kg	40	08/18/15	8270C		MS
Benzo[g,h,i]perylene	<0.030	0.040	0.030	mg/kg	40	08/18/15	8270C		MS

Surrogate: Nitrobenzene-d5	82.0 %	20.4-109	08/18/15	8270C	MS
Surrogate: 2-Fluorobiphenyl	87.0 %	23.4-133	08/18/15	8270C	MS
Surrogate: Terphenyl-d14	106 %	38.4-163	08/18/15	8270C	MS

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#4**1508196-04 (Solid)**

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

% Dry Solids	97.0			%	1	08/31/15	EPA160.3/2540C	H2	MAJ
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Saturated Paste Extraction

Calcium	201	10.0	0.039	mg/L	10	08/31/15	EPA200.7		JGS
Conductivity	2480			umhos/cm	1	08/26/15	ASA#9 10-3.3		LLG
Magnesium	30.7	10.0	0.190	mg/L	10	08/31/15	EPA200.7		JGS
pH	7.52			pH Units	1	08/26/15	ASA#9 12-2.6		LLG
SAR	5.68			[blank]	1	08/31/15	Calculation		JGS
Sodium	328	20.0	0.041	mg/L	10	08/31/15	EPA200.7		JGS

Total Metals by ICP

Barium	178	1.00	0.191	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.117	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Chromium	<5.00	5.00	0.636	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Copper	5.50	2.00	0.650	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Lead	<10.0	10.0	1.84	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Nickel	6.11	5.00	1.55	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.61	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.231	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Zinc	76.0	5.00	0.792	mg/kg dry	100	08/24/15	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	2.25	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.101	0.101	0.0109	mg/kg dry	490	09/03/15	EPA7471		JGS
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Debbie Zufelt, Reports Manager

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#4**1508196-04 (Solid)**

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

Boron	<0.600	0.600	0.065	mg/L	2	08/24/15	EPA200.7		JGS
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Subcontracted -- **Cardinal Laboratories**

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	99.2 %	85.6-137				08/19/15	8021B		MS
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0	50.0	6.52	mg/kg	5	08/18/15	8015B		MS
DRO >C10-C28	2300	50.0	14.6	mg/kg	5	08/18/15	8015B		MS
EXT DRO >C28-C35	914	50.0	14.6	mg/kg	5	08/18/15	8015B		MS

Surrogate: 1-Chlorooctane	67.2 %	47.2-157				08/18/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	125 %	52.1-176				08/18/15	8015B		MS
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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#4**1508196-04 (Solid)**

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

Naphthalene	<0.088	2.00	0.088	mg/kg	2000	08/18/15	8270C		MS
2-Methylnaphthalene	<0.144	2.00	0.144	mg/kg	2000	08/18/15	8270C		MS
1-Methylnaphthalene	<0.056	1.00	0.056	mg/kg	2000	08/18/15	8270C		MS
Acenaphthylene	<0.155	2.00	0.155	mg/kg	2000	08/18/15	8270C		MS
Acenaphthene	<0.130	2.00	0.130	mg/kg	2000	08/18/15	8270C		MS
Fluorene	<0.155	2.00	0.155	mg/kg	2000	08/18/15	8270C		MS
Phenanthrene	0.532	2.00	0.298	mg/kg	2000	08/18/15	8270C	J	MS
Anthracene	<0.162	2.00	0.162	mg/kg	2000	08/18/15	8270C		MS
Carbazole	<0.184	2.00	0.184	mg/kg	2000	08/18/15	8270C		MS
Fluoranthene	<0.356	2.00	0.356	mg/kg	2000	08/18/15	8270C		MS
Pyrene	0.279	2.00	0.151	mg/kg	2000	08/18/15	8270C	J	MS
Benzo[a]anthracene	<0.780	2.00	0.780	mg/kg	2000	08/18/15	8270C		MS
Chrysene	1.41	2.00	0.166	mg/kg	2000	08/18/15	8270C	J	MS
Benzo[b]fluoranthene	<0.170	2.00	0.170	mg/kg	2000	08/18/15	8270C		MS
Benzo[k]fluoranthene	<0.184	2.00	0.184	mg/kg	2000	08/18/15	8270C		MS
Benzo[a]pyrene	0.554	2.00	0.142	mg/kg	2000	08/18/15	8270C	J	MS
Indeno[1,2,3-cd]pyrene	<0.133	2.00	0.133	mg/kg	2000	08/18/15	8270C		MS
Dibenz[a,h]anthracene	<0.128	2.00	0.128	mg/kg	2000	08/18/15	8270C		MS
Benzo[g,h,i]perylene	<1.48	2.00	1.48	mg/kg	2000	08/18/15	8270C		MS

Surrogate: Nitrobenzene-d5	82.0 %	20.4-109	08/18/15	8270C	MS
Surrogate: 2-Fluorobiphenyl	83.3 %	23.4-133	08/18/15	8270C	MS
Surrogate: Terphenyl-d14	94.8 %	38.4-163	08/18/15	8270C	MS

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#5 Centre**1508196-05 (Solid)**

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

% Dry Solids	97.1			%	1	08/31/15	EPA160.3/2540C	H2	MAJ
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Saturated Paste Extraction

Calcium	405	10.0	0.039	mg/L	10	08/31/15	EPA200.7		JGS
Conductivity	15300			umhos/cm	1	08/26/15	ASA#9 10-3.3		LLG
Magnesium	71.6	10.0	0.190	mg/L	10	08/31/15	EPA200.7		JGS
pH	7.38			pH Units	1	08/26/15	ASA#9 12-2.6		LLG
SAR	30.3			[blank]	1	08/31/15	Calculation		JGS
Sodium	2520	20.0	0.041	mg/L	10	08/31/15	EPA200.7		JGS

Total Metals by ICP

Barium	142	1.00	0.191	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Cadmium	<5.00	5.00	0.117	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Chromium	<5.00	5.00	0.636	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Copper	5.53	2.00	0.650	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Lead	<10.0	10.0	1.84	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Nickel	7.96	5.00	1.55	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Selenium	<20.0	20.0	3.61	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Silver	<5.00	5.00	0.231	mg/kg dry	100	08/24/15	EPA6010 B		JGS
Zinc	34.2	5.00	0.792	mg/kg dry	100	08/24/15	EPA6010 B		JGS

Total Metals by ICPMS

Arsenic	2.06	0.500	0.260	mg/kg dry	1000	08/27/15	6020 A		JGS
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Total Mercury by CVAA

Mercury	<0.0999	0.0999	0.0108	mg/kg dry	485	09/03/15	EPA7471		JGS
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Debbie Zufelt, Reports Manager

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#5 Centre**1508196-05 (Solid)**

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

Boron	0.820	0.600	0.065	mg/L	2	08/24/15	EPA200.7		JGS
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Subcontracted -- **Cardinal Laboratories**

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	0.010	mg/kg	50	08/19/15	8021B		MS
Toluene*	<0.050	0.050	0.015	mg/kg	50	08/19/15	8021B		MS
Ethylbenzene*	<0.050	0.050	0.008	mg/kg	50	08/19/15	8021B		MS
Total Xylenes*	<0.150	0.150	0.018	mg/kg	50	08/19/15	8021B		MS
Total BTEX	<0.300	0.300		mg/kg	50	08/19/15	8021B		MS

Surrogate: 4-Bromofluorobenzene (PID)	101 %	85.6-137				08/19/15	8021B		MS
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10	<50.0	50.0	6.52	mg/kg	5	08/18/15	8015B		MS
DRO >C10-C28	6520	50.0	14.6	mg/kg	5	08/18/15	8015B		MS
EXT DRO >C28-C35	1640	50.0	14.6	mg/kg	5	08/18/15	8015B		MS

Surrogate: 1-Chlorooctane	97.5 %	47.2-157				08/18/15	8015B		MS
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Surrogate: 1-Chlorooctadecane	177 %	52.1-176				08/18/15	8015B		MS
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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

S4#5 Centre**1508196-05 (Solid)**

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

Naphthalene	<0.088	2.00	0.088	mg/kg	2000	08/19/15	8270C		MS
2-Methylnaphthalene	<0.144	2.00	0.144	mg/kg	2000	08/19/15	8270C		MS
1-Methylnaphthalene	<0.056	1.00	0.056	mg/kg	2000	08/19/15	8270C		MS
Acenaphthylene	<0.155	2.00	0.155	mg/kg	2000	08/19/15	8270C		MS
Acenaphthene	<0.130	2.00	0.130	mg/kg	2000	08/19/15	8270C		MS
Fluorene	<0.155	2.00	0.155	mg/kg	2000	08/19/15	8270C		MS
Phenanthrene	0.952	2.00	0.298	mg/kg	2000	08/19/15	8270C	J	MS
Anthracene	<0.162	2.00	0.162	mg/kg	2000	08/19/15	8270C		MS
Carbazole	<0.184	2.00	0.184	mg/kg	2000	08/19/15	8270C		MS
Fluoranthene	<0.356	2.00	0.356	mg/kg	2000	08/19/15	8270C		MS
Pyrene	0.518	2.00	0.151	mg/kg	2000	08/19/15	8270C	J	MS
Benzo[a]anthracene	<0.780	2.00	0.780	mg/kg	2000	08/19/15	8270C		MS
Chrysene	1.88	2.00	0.166	mg/kg	2000	08/19/15	8270C	J	MS
Benzo[b]fluoranthene	<0.170	2.00	0.170	mg/kg	2000	08/19/15	8270C		MS
Benzo[k]fluoranthene	<0.184	2.00	0.184	mg/kg	2000	08/19/15	8270C		MS
Benzo[a]pyrene	0.547	2.00	0.142	mg/kg	2000	08/19/15	8270C	J	MS
Indeno[1,2,3-cd]pyrene	<0.133	2.00	0.133	mg/kg	2000	08/19/15	8270C		MS
Dibenz[a,h]anthracene	<0.128	2.00	0.128	mg/kg	2000	08/19/15	8270C		MS
Benzo[g,h,i]perylene	<1.48	2.00	1.48	mg/kg	2000	08/19/15	8270C		MS

Surrogate: Nitrobenzene-d5	85.6 %	20.4-109	08/19/15	8270C	MS
Surrogate: 2-Fluorobiphenyl	85.3 %	23.4-133	08/19/15	8270C	MS
Surrogate: Terphenyl-d14	89.9 %	38.4-163	08/19/15	8270C	MS

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 B508279 - General Prep - Wet Chem

Duplicate (B508279-DUP1)	Source: 1508196-01		Prepared & Analyzed: 08/26/15							
pH	7.88		pH Units		7.90			0.253	20	

Batch B508280 - General Prep - Wet Chem

Duplicate (B508280-DUP1)	Source: 1508196-01		Prepared & Analyzed: 08/26/15							
Conductivity	430		umhos/cm		425			1.17	20	

Batch B508295 - Paste Extract

Duplicate (B508295-DUP2)	Source: 1508196-01		Prepared: 08/27/15 Analyzed: 08/31/15							
Calcium	45.1	5.00	mg/L		42.9			5.00	20	
Magnesium	5.84	5.00	mg/L		5.50			6.00	20	
Sodium	46.8	10.0	mg/L		45.4			3.19	20	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 B508252 - EPA 3050

Blank (B508252-BLK1)

Prepared & Analyzed: 08/24/15

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 (B508252-BS1)

Prepared & Analyzed: 08/24/15

Barium	1.90	0.010	mg/kg dry	2.00	95.1	85-115
Cadmium	1.82	0.050	mg/kg dry	2.00	91.1	85-115
Chromium	2.00	0.050	mg/kg dry	2.00	100	85-115
Copper	3.97	0.020	mg/kg dry	4.00	99.3	85-115
Lead	1.94	0.100	mg/kg dry	2.00	97.2	85-115
Nickel	1.88	0.050	mg/kg dry	2.00	93.8	85-115
Selenium	7.70	0.200	mg/kg dry	8.00	96.2	85-115
Silver	0.094	0.050	mg/kg dry	0.100	93.9	85-115
Zinc	1.81	0.050	mg/kg dry	2.00	90.4	85-115

LCS Dup (B508252-BSD1)

Prepared & Analyzed: 08/24/15

Barium	1.88	0.010	mg/kg dry	2.00	94.1	85-115	1.08	20
Cadmium	1.80	0.050	mg/kg dry	2.00	90.0	85-115	1.19	20
Chromium	1.98	0.050	mg/kg dry	2.00	99.1	85-115	0.945	20
Copper	3.98	0.020	mg/kg dry	4.00	99.5	85-115	0.197	20
Lead	1.92	0.100	mg/kg dry	2.00	96.0	85-115	1.31	20
Nickel	1.88	0.050	mg/kg dry	2.00	93.9	85-115	0.0414	20
Selenium	7.55	0.200	mg/kg dry	8.00	94.4	85-115	1.89	20
Silver	0.093	0.050	mg/kg dry	0.100	93.0	85-115	0.992	20
Zinc	1.79	0.050	mg/kg dry	2.00	89.6	85-115	0.816	20

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 B508254 - EPA 3050

Blank (B508254-BLK1)

Prepared & Analyzed: 08/24/15

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 (B508254-BS1)

Prepared & Analyzed: 08/24/15

Barium	1.90	0.010	mg/kg dry	2.00	95.1	85-115
Cadmium	1.82	0.050	mg/kg dry	2.00	91.1	85-115
Chromium	2.00	0.050	mg/kg dry	2.00	100	85-115
Copper	3.97	0.020	mg/kg dry	4.00	99.3	85-115
Lead	1.94	0.100	mg/kg dry	2.00	97.2	85-115
Nickel	1.88	0.050	mg/kg dry	2.00	93.8	85-115
Selenium	7.70	0.200	mg/kg dry	8.00	96.2	85-115
Silver	0.094	0.050	mg/kg dry	0.100	93.9	85-115
Zinc	1.81	0.050	mg/kg dry	2.00	90.4	85-115

LCS Dup (B508254-BSD1)

Prepared & Analyzed: 08/24/15

Barium	1.88	0.010	mg/kg dry	2.00	94.1	85-115	1.08	20
Cadmium	1.80	0.050	mg/kg dry	2.00	90.0	85-115	1.19	20
Chromium	1.98	0.050	mg/kg dry	2.00	99.1	85-115	0.945	20
Copper	3.98	0.020	mg/kg dry	4.00	99.5	85-115	0.197	20
Lead	1.92	0.100	mg/kg dry	2.00	96.0	85-115	1.31	20
Nickel	1.88	0.050	mg/kg dry	2.00	93.9	85-115	0.0414	20
Selenium	7.55	0.200	mg/kg dry	8.00	94.4	85-115	1.89	20
Silver	0.093	0.050	mg/kg dry	0.100	93.0	85-115	0.992	20
Zinc	1.79	0.050	mg/kg dry	2.00	89.6	85-115	0.816	20

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 B508289 - EPA 3050M

Blank (B508289-BLK1)

Prepared & Analyzed: 08/27/15

Arsenic ND 0.0005 mg/kg dry

LCS (B508289-BS1)

Prepared & Analyzed: 08/27/15

Arsenic 0.0559 0.0005 mg/kg dry 0.0500 112 85-115

LCS Dup (B508289-BSD1)

Prepared & Analyzed: 08/27/15

Arsenic 0.0535 0.0005 mg/kg dry 0.0500 107 85-115 4.38 20

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Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 B509038 - EPA 7471

Blank (B509038-BLK1)

Prepared: 09/02/15 Analyzed: 09/03/15

Mercury ND 0.0002 mg/kg wet

LCS (B509038-BS1)

Prepared: 09/02/15 Analyzed: 09/03/15

Mercury 0.0020 0.0002 mg/kg wet 0.00200 98.4 85-115

LCS Dup (B509038-BSD1)

Prepared: 09/02/15 Analyzed: 09/03/15

Mercury 0.0019 0.0002 mg/kg wet 0.00200 96.7 85-115 1.64 20

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 B508243 - Hot Water Soluble Metals Extract

Blank (B508243-BLK1)

Prepared & Analyzed: 08/24/15

Boron	ND	0.300	mg/L
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LCS (B508243-BS1)

Prepared & Analyzed: 08/24/15

Boron	4.61	0.300	mg/L	5.00	92.1	85-115
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LCS Dup (B508243-BSD1)

Prepared & Analyzed: 08/24/15

Boron	4.58	0.300	mg/L	5.00	91.5	85-115	0.630	20
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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081407 - Volatiles

Blank (5081407-BLK1)

Prepared: 08/14/15 Analyzed: 08/18/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0503		mg/kg	0.0500		101	85.6-137		
Benzene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Total Xylenes	ND	0.150	mg/kg						

LCS (5081407-BS1)

Prepared: 08/14/15 Analyzed: 08/18/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0464		mg/kg	0.0500		92.7	85.6-137		
Benzene	2.26	0.050	mg/kg	2.00		113	73-130		
Ethylbenzene	2.28	0.050	mg/kg	2.00		114	71.9-119		
Toluene	2.13	0.050	mg/kg	2.00		107	77-117		
Total Xylenes	6.40	0.150	mg/kg	6.00		107	76.2-112		

LCS Dup (5081407-BSD1)

Prepared: 08/14/15 Analyzed: 08/18/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500		96.2	85.6-137		
Benzene	2.29	0.050	mg/kg	2.00		115	73-130	1.34	6.59
Ethylbenzene	2.37	0.050	mg/kg	2.00		119	71.9-119	3.96	8.3
Toluene	2.18	0.050	mg/kg	2.00		109	77-117	2.43	6.92
Total Xylenes	6.53	0.150	mg/kg	6.00		109	76.2-112	2.03	8.93

Batch 5081902 - Volatiles

Blank (5081902-BLK1)

Prepared & Analyzed: 08/19/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	85.6-137		
Benzene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Total Xylenes	ND	0.150	mg/kg						

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081902 - Volatiles

LCS (5081902-BS1)

Prepared & Analyzed: 08/19/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0476		mg/kg	0.0500		95.2	85.6-137			
Benzene	2.20	0.050	mg/kg	2.00		110	73-130			
Ethylbenzene	2.23	0.050	mg/kg	2.00		112	71.9-119			
Toluene	2.08	0.050	mg/kg	2.00		104	77-117			
Total Xylenes	6.25	0.150	mg/kg	6.00		104	76.2-112			

LCS Dup (5081902-BSD1)

Prepared & Analyzed: 08/19/15

Surrogate: 4-Bromofluorobenzene (PID)	0.0467		mg/kg	0.0500		93.4	85.6-137			
Benzene	2.18	0.050	mg/kg	2.00		109	73-130	0.756	6.59	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	71.9-119	1.49	8.3	
Toluene	2.06	0.050	mg/kg	2.00		103	77-117	0.692	6.92	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	76.2-112	1.00	8.93	

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 5081708 - General Prep - Organics

Blank (5081708-BLK1)

Prepared: 08/17/15 Analyzed: 08/18/15

Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.4	52.1-176			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.7	47.2-157			
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 (5081708-BS1)

Prepared: 08/17/15 Analyzed: 08/18/15

Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.7	52.1-176			
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	47.2-157			
DRO >C10-C28	193	10.0	mg/kg	200		96.6	81.3-118			
GRO C6-C10	187	10.0	mg/kg	200		93.7	72.5-115			
Total TPH C6-C28	381	10.0	mg/kg	400		95.2	80-113			

LCS Dup (5081708-BS1)

Prepared: 08/17/15 Analyzed: 08/18/15

Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	52.1-176			
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	47.2-157			
DRO >C10-C28	205	10.0	mg/kg	200		102	81.3-118	5.65	15.3	
GRO C6-C10	190	10.0	mg/kg	200		95.0	72.5-115	1.45	10.1	
Total TPH C6-C28	395	10.0	mg/kg	400		98.6	80-113	3.60	12.1	

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 5080503 - SW846-3510

Blank (5080503-BLK1)

Prepared: 08/05/15 Analyzed: 08/06/15

1-Methylnaphthalene	ND	0.020	mg/kg							
Surrogate: 2-Fluorobiphenyl	1.77		mg/kg	2.00		88.3	23.4-133			
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	1.77		mg/kg	2.00		88.5	20.4-109			
Phenanthrene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Surrogate: Terphenyl-d14	2.07		mg/kg	2.00		104	38.4-163			

LCS (5080503-BS1)

Prepared: 08/05/15 Analyzed: 08/06/15

Surrogate: 2-Fluorobiphenyl	1.57		mg/kg	2.00		78.3	23.4-133			
2-Methylnaphthalene	0.588	0.040	mg/kg	0.800		73.5	41.4-151			
Acenaphthene	0.607	0.040	mg/kg	0.800		75.8	39.3-154			
Acenaphthylene	0.592	0.040	mg/kg	0.800		74.0	39.2-150			
Anthracene	0.610	0.040	mg/kg	0.800		76.3	33.5-162			
Benzo[a]anthracene	0.616	0.040	mg/kg	0.800		76.9	28.6-167			
Benzo[a]pyrene	0.619	0.040	mg/kg	0.800		77.4	27.2-163			
Benzo[b]fluoranthene	0.608	0.040	mg/kg	0.800		76.0	24-168			
Benzo[g,h,i]perylene	0.661	0.040	mg/kg	0.800		82.6	14.1-172			
Benzo[k]fluoranthene	0.652	0.040	mg/kg	0.800		81.5	28.9-170			
Carbazole	0.611	0.040	mg/kg	0.800		76.4	31.6-163			
Chrysene	0.625	0.040	mg/kg	0.800		78.1	27.7-171			
Dibenz[a,h]anthracene	0.682	0.040	mg/kg	0.800		85.2	19-164			
Fluoranthene	0.595	0.040	mg/kg	0.800		74.4	38.5-165			

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

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 5080503 - SW846-3510

LCS (5080503-BS1)

Prepared: 08/05/15 Analyzed: 08/06/15

Fluorene	0.601	0.040	mg/kg	0.800		75.1	40.4-158			
Indeno[1,2,3-cd]pyrene	0.685	0.040	mg/kg	0.800		85.7	21.9-162			
Naphthalene	0.584	0.040	mg/kg	0.800		73.0	33.8-147			
Surrogate: Nitrobenzene-d5	1.61		mg/kg	2.00		80.6	20.4-109			
Phenanthrene	0.617	0.040	mg/kg	0.800		77.2	34.7-164			
Pyrene	0.576	0.040	mg/kg	0.800		72.0	28-180			
Surrogate: Terphenyl-d14	1.77		mg/kg	2.00		88.7	38.4-163			

LCS Dup (5080503-BSD1)

Prepared: 08/05/15 Analyzed: 08/06/15

Surrogate: 2-Fluorobiphenyl	1.57		mg/kg	2.00		78.4	23.4-133			
2-Methylnaphthalene	0.582	0.040	mg/kg	0.800		72.8	41.4-151	0.977	20	
Acenaphthene	0.603	0.040	mg/kg	0.800		75.4	39.3-154	0.600	20	
Acenaphthylene	0.599	0.040	mg/kg	0.800		74.8	39.2-150	1.11	20	
Anthracene	0.610	0.040	mg/kg	0.800		76.3	33.5-162	0.0393	20	
Benzo[a]anthracene	0.612	0.040	mg/kg	0.800		76.5	28.6-167	0.529	20	
Benzo[a]pyrene	0.621	0.040	mg/kg	0.800		77.7	27.2-163	0.350	20	
Benzo[b]fluoranthene	0.633	0.040	mg/kg	0.800		79.1	24-168	3.93	21.5	
Benzo[g,h,i]perylene	0.664	0.040	mg/kg	0.800		83.0	14.1-172	0.474	39.3	
Benzo[k]fluoranthene	0.638	0.040	mg/kg	0.800		79.8	28.9-170	2.16	20.5	
Carbazole	0.617	0.040	mg/kg	0.800		77.2	31.6-163	0.988	20	
Chrysene	0.623	0.040	mg/kg	0.800		77.8	27.7-171	0.313	20	
Dibenz[a,h]anthracene	0.686	0.040	mg/kg	0.800		85.8	19-164	0.680	30.5	
Fluoranthene	0.599	0.040	mg/kg	0.800		74.9	38.5-165	0.703	20	
Fluorene	0.598	0.040	mg/kg	0.800		74.7	40.4-158	0.456	20	
Indeno[1,2,3-cd]pyrene	0.684	0.040	mg/kg	0.800		85.6	21.9-162	0.134	32.1	
Naphthalene	0.578	0.040	mg/kg	0.800		72.3	33.8-147	1.01	20	
Surrogate: Nitrobenzene-d5	1.60		mg/kg	2.00		79.8	20.4-109			
Phenanthrene	0.617	0.040	mg/kg	0.800		77.2	34.7-164	0.0130	20	
Pyrene	0.569	0.040	mg/kg	0.800		71.1	28-180	1.19	20	
Surrogate: Terphenyl-d14	1.78		mg/kg	2.00		89.0	38.4-163			

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Debbie Zufelt, Reports Manager

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Monument Global Resources
12160 N. Abrams Rd. Suite 160
Dallas TX, 75243

Project: Table 910
Project Name / Number: Cache Unit Spill #4
Project Manager: Kerry Smith

Reported:
09/03/15 20:26

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
H2	Sample analysis performed past hold time specified by the method.
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 AND ANALYSIS REQUEST

[illegible]