

September 28, 2017

RYAN MULLER

ARCADIS U.S., INC.

2999 OAK ROAD, SUITE 300

WALNUT CREEK, CA 94597

RE: BARNSDALL CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/11/17 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVENReported:
28-Sep-17 11:54

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NORTH WALL 1	H702410-01	Soil	11-Sep-17 11:30	11-Sep-17 15:05
NORTH WALL 2	H702410-02	Soil	11-Sep-17 11:32	11-Sep-17 15:05
EAST WALL 4	H702410-03	Soil	11-Sep-17 11:36	11-Sep-17 15:05
SOUTH WALL 6	H702410-04	Soil	11-Sep-17 11:40	11-Sep-17 15:05
SOUTH WALL 7	H702410-05	Soil	11-Sep-17 11:42	11-Sep-17 15:05
SOUTH WALL 8	H702410-06	Soil	11-Sep-17 11:44	11-Sep-17 15:05
BOTTOM 1	H702410-07	Soil	11-Sep-17 13:15	11-Sep-17 15:05
BOTTOM 2	H702410-08	Soil	11-Sep-17 13:17	11-Sep-17 15:05
NORTH WALL 3	H702410-09	Soil	11-Sep-17 11:34	11-Sep-17 15:05
WEST WALL 5	H702410-10	Soil	11-Sep-17 13:30	11-Sep-17 15:05

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

NORTH WALL 1 H702410-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.5 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	209		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	QR-03
EXT DRO >C28-C36	74.3		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctane			79.5 %	28.3-164		7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctadecane			111 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	728		20.0	mg/kg wet	20	B709128	JDA	25-Sep-17	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

NORTH WALL 2 H702410-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	1990		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	615		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctane			82.6 %	28.3-164		7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctadecane			137 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	1100		50.0	mg/kg wet	50	B709128	JDA	25-Sep-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

EAST WALL 4

H702410-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	576		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	296		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctane			74.3 %	28.3-164		7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctadecane			108 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	1700		50.0	mg/kg wet	50	B709128	JDA	25-Sep-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

SOUTH WALL 6 H702410-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			84.0 %	28.3-164		7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			92.2 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	369		10.0	mg/kg wet	10	B709128	JDA	22-Sep-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

SOUTH WALL 7
H702410-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			90.5 %	28.3-164		7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			99.6 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	218		10.0	mg/kg wet	10	B709128	JDA	22-Sep-17	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

SOUTH WALL 8 H702410-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			85.2 %	28.3-164		7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.7 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	35.7		10.0	mg/kg wet	10	B709128	JDA	22-Sep-17	EPA300.0	
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ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

BOTTOM 1 H702410-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	771		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	98.4		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctane			83.3 %	28.3-164		7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctadecane			104 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	2480		100	mg/kg wet	100	B709128	JDA	25-Sep-17	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

BOTTOM 2 H702410-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			89.6 %	28.3-164		7091201	MS	12-Sep-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			97.0 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	1730		50.0	mg/kg wet	50	B709128	JDA	25-Sep-17	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

NORTH WALL 3

H702410-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091206	MS	12-Sep-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		7091206	MS	12-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	1400		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	489		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctane			81.5 %	28.3-164		7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctadecane			116 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	7460		200	mg/kg wet	200	B709128	JDA	25-Sep-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

WEST WALL 5 H702410-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	7091301	MS	13-Sep-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7091301	MS	13-Sep-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7091301	MS	13-Sep-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7091301	MS	13-Sep-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7091301	MS	13-Sep-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-148		7091301	MS	13-Sep-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
DRO >C10-C28	92.1		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
EXT DRO >C28-C36	<50.0		50.0	mg/kg	5	7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctane			100 %	28.3-164		7091201	MS	12-Sep-17	8015B	
Surrogate: 1-Chlorooctadecane			119 %	34.7-157		7091201	MS	12-Sep-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	307		10.0	mg/kg wet	10	B709128	JDA	22-Sep-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7091206 - Volatiles

Blank (7091206-BLK1)

Prepared & Analyzed: 12-Sep-17

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.3	72-148			

LCS (7091206-BS1)

Prepared & Analyzed: 12-Sep-17

Benzene	1.63	0.050	mg/kg	2.00		81.4	79.5-124			
Toluene	1.71	0.050	mg/kg	2.00		85.7	75.5-127			
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.3	77.7-125			
Total Xylenes	5.70	0.150	mg/kg	6.00		94.9	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	72-148			

LCS Dup (7091206-BSD1)

Prepared & Analyzed: 12-Sep-17

Benzene	1.62	0.050	mg/kg	2.00		81.2	79.5-124	0.180	6.5	
Toluene	1.75	0.050	mg/kg	2.00		87.5	75.5-127	2.03	7.02	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.5	77.7-125	1.28	7.83	
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	70.9-124	1.09	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	72-148			

Batch 7091301 - Volatiles

Blank (7091301-BLK1)

Prepared & Analyzed: 13-Sep-17

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.8	72-148			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ARCADIS U.S., INC.
 2999 OAK ROAD, SUITE 300
 WALNUT CREEK CA, 94597

 Project: BARNSDALL CTB
 Project Number: NONE GIVEN
 Project Manager: RYAN MULLER
 Fax To: NOT GIVEN

 Reported:
 28-Sep-17 11:54

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7091301 - Volatiles
LCS (7091301-BS1)

Prepared & Analyzed: 13-Sep-17

Benzene	1.79	0.050	mg/kg	2.00		89.6	79.5-124			
Toluene	1.93	0.050	mg/kg	2.00		96.3	75.5-127			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	77.7-125			
Total Xylenes	6.32	0.150	mg/kg	6.00		105	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	72-148			

LCS Dup (7091301-BS1)

Prepared & Analyzed: 13-Sep-17

Benzene	1.82	0.050	mg/kg	2.00		91.0	79.5-124	1.54	6.5	
Toluene	1.96	0.050	mg/kg	2.00		98.2	75.5-127	1.98	7.02	
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	77.7-125	1.67	7.83	
Total Xylenes	6.48	0.150	mg/kg	6.00		108	70.9-124	2.50	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	72-148			

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Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7091201 - General Prep - Organics

Blank (7091201-BLK1)

Prepared & Analyzed: 12-Sep-17

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.8	28.3-164			
Surrogate: 1-Chlorooctadecane	50.4		mg/kg	50.0		101	34.7-157			

LCS (7091201-BS1)

Prepared & Analyzed: 12-Sep-17

GRO C6-C10	180	10.0	mg/kg	200		89.8	76.6-119			
DRO >C10-C28	196	10.0	mg/kg	200		98.0	81.4-124			
Total TPH C6-C28	376	10.0	mg/kg	400		93.9	79.4-121			
Surrogate: 1-Chlorooctane	50.2		mg/kg	50.0		100	28.3-164			
Surrogate: 1-Chlorooctadecane	55.3		mg/kg	50.0		111	34.7-157			

LCS Dup (7091201-BSD1)

Prepared & Analyzed: 12-Sep-17

GRO C6-C10	178	10.0	mg/kg	200		89.0	76.6-119	0.881	7.94	
DRO >C10-C28	193	10.0	mg/kg	200		96.3	81.4-124	1.76	9.83	
Total TPH C6-C28	371	10.0	mg/kg	400		92.7	79.4-121	1.34	8.57	
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	28.3-164			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	34.7-157			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ARCADIS U.S., INC.
2999 OAK ROAD, SUITE 300
WALNUT CREEK CA, 94597

Project: BARNSDALL CTB
Project Number: NONE GIVEN
Project Manager: RYAN MULLER
Fax To: NOT GIVEN

Reported:
28-Sep-17 11:54

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B709128 - General Prep - Wet Chem

Blank (B709128-BLK1)

Prepared: 18-Sep-17 Analyzed: 22-Sep-17

Chloride	ND	10.0	mg/kg wet							
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LCS (B709128-BS1)

Prepared: 18-Sep-17 Analyzed: 22-Sep-17

Chloride	242	10.0	mg/kg wet	250		96.8	85-115			
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LCS Dup (B709128-BSD1)

Prepared: 18-Sep-17 Analyzed: 22-Sep-17

Chloride	240	10.0	mg/kg wet	250		95.9	85-115	0.980	20	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

ID#: **HTD2410**

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page of

Lab Work Order #

Send Results to: Contact & Company Name: <u>Ryan Muller@Arcadis.com</u> Address: <u>1004 N. Big Spring St</u> City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u> E-mail Address: <u>Ryan Muller@Arcadis.com</u> Project Name/Location (City, State): <u>Midland TX 79701</u>		Telephone: <u> </u> Fax: <u> </u>		Preservation Key: A. H ₂ SO ₄ B. HCL C. HNO ₃ D. NaOH E. None F. Other: <u> </u> G. Other: <u> </u> H. Other: <u> </u>		Keys Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: <u> </u> 10. Other: <u> </u>	
Project Name/Location (City, State): <u>Midland TX 79701</u>		Project #: <u> </u>		Matrix Key: SE - Sediment SO - Soil W - Water A - Air NL - NAPL/Oil SW - Sample Wipe Other: <u> </u>		REMARKS <u>TPH 6015 Extended</u> <u>BT-CX 6021, Chloride</u>	
Sampler's Printed Name: <u>Rita David Kravick</u> Sampler's Signature: <u>[Signature]</u>		Collection Date: <u>9/11</u> Time: <u>1130</u>		Type (✓) Comp <u>✓</u> Grab <u>✓</u>		Matrix <u>5</u>	
Sample ID: <u>North wall 1</u>		Date: <u>9/11</u> Time: <u>1130</u>		Type (✓): <u>✓</u>		Matrix: <u>5</u>	
<u>North wall 2</u>		<u>9/11 1132</u>		<u>✓</u>		<u>5</u>	
<u>East wall 4</u>		<u>9/11 1134</u>		<u>✓</u>		<u>5</u>	
<u>South wall 6</u>		<u>9/11 1140</u>		<u>✓</u>		<u>5</u>	
<u>South wall 7</u>		<u>9/11 1142</u>		<u>✓</u>		<u>5</u>	
<u>South wall 8</u>		<u>9/11 1144</u>		<u>✓</u>		<u>5</u>	
<u>Bottom 1</u>		<u>9/11 1315</u>		<u>✓</u>		<u>5</u>	
<u>Bottom 2</u>		<u>9/11 1317</u>		<u>✓</u>		<u>5</u>	
<u>North wall 3</u>		<u>9/11 1134</u>		<u>✓</u>		<u>5</u>	
<u>West wall 5</u>		<u>9/11 1330</u>		<u>✓</u>		<u>5</u>	
<u>[Signature]</u>		<u> </u>		<u> </u>		<u> </u>	
Special Instructions/Comments: <u> </u>		Special QA/QC Instructions (✓): <u> </u>		Distribution: <u>WHITE - Laboratory returns with results</u>		Distribution: <u>YELLOW - Lab copy</u>	

Bill Aracene - Bruce

Relinquished By

Received By

Relinquished By

Laboratory Received By

Lab Name: Cardinal Labs Hobbs
☐ Cooler packed with ice (✓)
☒ Intact ☐ Not Intact
 Specify Turnaround Requirements:
 Shipping Tracking #:
 Condition/Cooler Temp: 1.6°C

Printed Name: Rita David Kravick
 Signature: [Signature]
 Firm: Arcadis
 Date/Time: 1505 9/11

Printed Name: [Signature]
 Signature: [Signature]
 Firm/Courier:
 Date/Time: 9/11/11

Printed Name:
 Signature:
 Firm/Courier:
 Date/Time:

Printed Name:
 Signature:
 Firm:
 Date/Time: