



10/17/14

## Analysis of Water to be Injected and Injection Zone Water

### Technical Report for

Diamond Operating Inc.

Decker Lease

Accutest Job Number: D62854

Sampling Date: 09/29/14

This water analysis is of the combined water produced from the Decker #1 and Decker #3 wells. Both wells produce from the J Sandstone. The sampling location was at the water leg of the Heater Treater. The proposed Decker #2 well produced from the same J sand interval until it was temporarily abandoned in 2001. This produced water sample from the Decker #1 and Decker # 3 wells is the same water that is found in the J Sandstone in the Decker #2 well.

### Report to:

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Boulder, CO 80301  
davep@flatironenergy.com

ATTN: Dave Peterson

Total number of pages in report: 59



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Scott Heideman".

Scott Heideman  
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

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Test results relate only to samples analyzed.

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Sample Summary

Diamond Operating Inc.

Job No: D62854

Decker Lease

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
D62854-1	09/29/14	18:00 RG	10/01/14	AQ Water	DECKER LEASE
D62854-1A	09/29/14	18:00 RG	10/01/14	AQ Water	DECKER LEASE
D62854-1FA	09/29/14	18:00 RG	10/01/14	AQ Potentially Diss. AQ	DECKER LEASE

## Summary of Hits

Page 1 of 1

Job Number: D62854  
Account: Diamond Operating Inc.  
Project: Decker Lease  
Collected: 09/29/14

2

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D62854-1	DECKER LEASE					
Solids, Total Dissolved		990	10		mg/l	SM 2540C-2011
D62854-1A	DECKER LEASE					
Arsenic		2.2	0.40		ug/l	EPA 200.8
Copper		4.8	4.0		ug/l	EPA 200.8
D62854-1FA	DECKER LEASE					
Arsenic		1.8	0.40		ug/l	EPA 200.8



**Sample Results**

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**Report of Analysis**

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## Report of Analysis

Client Sample ID: DECKER LEASE  
 Lab Sample ID: D62854-1  
 Matrix: AQ - Water  
 Method: EPA 624  
 Project: Decker Lease

Date Sampled: 09/29/14  
 Date Received: 10/01/14  
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V27596.D	1	10/05/14	BR	n/a	n/a	V6V1557
Run #2	6V27655.D	1	10/07/14	BR	n/a	n/a	V6V1562

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	8.0	ug/l	
107-13-1	Acrylonitrile	ND	2.0	0.82	ug/l	
71-43-2	Benzene	ND	1.0	0.25	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.26	ug/l	
75-25-2	Bromoform	ND	2.0	0.54	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.35	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.33	ug/l	
75-00-3	Chloroethane	ND	2.0	0.45	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	2.0	0.79	ug/l	
67-66-3	Chloroform	ND	2.0	0.27	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.25	ug/l	
95-50-1	o-Dichlorobenzene	ND	2.0	0.58	ug/l	
541-73-1	m-Dichlorobenzene	ND	2.0	0.61	ug/l	
106-46-7	p-Dichlorobenzene	ND	2.0	0.52	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.25	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.74	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.56	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.91	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.28	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.38	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.31	ug/l	
74-83-9	Methyl bromide	ND	4.0	0.82	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.43	ug/l	
75-09-2	Methylene chloride	ND <sup>a</sup>	4.0	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.32	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.53	ug/l	
108-88-3	Toluene	ND	1.0	0.80	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.30	ug/l	

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: DECKER LEASE  
Lab Sample ID: D62854-1  
Matrix: AQ - Water  
Method: EPA 624  
Project: Decker Lease

Date Sampled: 09/29/14  
Date Received: 10/01/14  
Percent Solids: n/a



## VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	2.0	0.45	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.63	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.89	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	92%	70-130%
17060-07-0	1,2-Dichloroethane-D4	102%	89%	70-130%
2037-26-5	Toluene-D8	97%	94%	70-130%
460-00-4	4-Bromofluorobenzene	92%	89%	70-130%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: DECKER LEASE  
 Lab Sample ID: D62854-1  
 Matrix: AQ - Water  
 Method: EPA 625 SW846 3510C  
 Project: Decker Lease

Date Sampled: 09/29/14  
 Date Received: 10/01/14  
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G121977.D	1	10/03/14	DC	10/02/14	OP10748	E1G1440
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

## ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.7	0.53	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.7	0.60	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.7	0.59	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.7	0.50	ug/l	
51-28-5	2,4-Dinitrophenol	ND	4.7	3.8	ug/l	
87-65-0	2,6-Dichlorophenol	ND	4.7	0.50	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	4.7	0.47	ug/l	
88-75-5	2-Nitrophenol	ND	4.7	0.47	ug/l	
100-02-7	4-Nitrophenol	ND	4.7	0.71	ug/l	
87-86-5	Pentachlorophenol	ND	4.7	0.71	ug/l	
108-95-2	Phenol	ND	4.7	0.71	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.7	0.49	ug/l	
83-32-9	Acenaphthene	ND	4.7	0.48	ug/l	
208-96-8	Acenaphthylene	ND	4.7	0.47	ug/l	
120-12-7	Anthracene	ND	4.7	0.47	ug/l	
92-87-5	Benzidine	ND	9.5	6.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.7	0.47	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.7	0.47	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.7	0.47	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.7	0.47	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.7	0.47	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.7	0.47	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.7	0.47	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.7	0.47	ug/l	
218-01-9	Chrysene	ND	4.7	0.47	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.7	0.47	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.7	0.47	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.7	0.53	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.7	0.47	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.9	0.50	ug/l	
122-66-7	1,2-Diphenylhydrazine	ND	4.7	0.47	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.9	0.58	ug/l	

ND = Not detected MDL = Method Detection Limit

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## Report of Analysis

Client Sample ID:	DECKER LEASE	Date Sampled:	09/29/14
Lab Sample ID:	D62854-1	Date Received:	10/01/14
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 625 SW846 3510C		
Project:	Decker Lease		

## ABN PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	1.9	0.47	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.7	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.7	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	4.7	0.47	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.7	0.47	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.7	0.65	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.7	0.47	ug/l	
84-66-2	Diethyl phthalate	ND	4.7	0.47	ug/l	
131-11-3	Dimethyl phthalate	ND	4.7	0.47	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.7	1.0	ug/l	
206-44-0	Fluoranthene	ND	4.7	0.47	ug/l	
86-73-7	Fluorene	ND	4.7	0.47	ug/l	
118-74-1	Hexachlorobenzene	ND	4.7	0.47	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.7	0.47	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.7	3.8	ug/l	
67-72-1	Hexachloroethane	ND	4.7	0.54	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.7	0.54	ug/l	
78-59-1	Isophorone	ND	4.7	0.47	ug/l	
91-20-3	Naphthalene	ND	4.7	0.47	ug/l	
98-95-3	Nitrobenzene	ND	4.7	0.47	ug/l	
62-75-9	N-Nitrosodimethylamine	ND	4.7	0.47	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.7	0.69	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.7	0.47	ug/l	
85-01-8	Phenanthrene	ND	4.7	0.47	ug/l	
129-00-0	Pyrene	ND	4.7	0.47	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		10-120%
4165-62-2	Phenol-d5	35%		9-120%
118-79-6	2,4,6-Tribromophenol	94%		19-125%
4165-60-0	Nitrobenzene-d5	93%		35-120%
321-60-8	2-Fluorobiphenyl	97%		35-120%
1718-51-0	Terphenyl-d14	97%		32-122%

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 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID: DECKER LEASE  
Lab Sample ID: D62854-1  
Matrix: AQ - Water  
Method: EPA 602  
Project: Decker Lease

Date Sampled: 09/29/14  
Date Received: 10/01/14  
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA23671.D	1	10/10/14	EP	n/a	n/a	GTA1317
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	100%		80-120%

ND = Not detected      MDL = Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	DECKER LEASE	Date Sampled:	09/29/14
Lab Sample ID:	D62854-1	Date Received:	10/01/14
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 608 EPA 608		
Project:	Decker Lease		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EH18023.D	1	10/08/14	TR	10/03/14	OP10753	GEH796
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1060 ml	10.0 ml
Run #2		

## Pesticide/PCB PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.019	0.0019	ug/l	
319-84-6	alpha-BHC	ND	0.019	0.0047	ug/l	
319-85-7	beta-BHC	ND	0.019	0.0095	ug/l	
319-86-8	delta-BHC	ND	0.019	0.0095	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.019	0.0095	ug/l	
12789-03-6	Chlordane	ND	0.47	0.36	ug/l	
60-57-1	Dieldrin	ND	0.019	0.0019	ug/l	
72-54-8	4,4'-DDD	ND	0.019	0.0047	ug/l	
72-55-9	4,4'-DDE	ND	0.019	0.0047	ug/l	
50-29-3	4,4'-DDT	ND	0.019	0.0047	ug/l	
72-20-8	Endrin	ND	0.019	0.0047	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.019	0.0095	ug/l	
7421-93-4	Endrin aldehyde	ND	0.019	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.019	0.0095	ug/l	
33213-65-9	Endosulfan-II	ND	0.019	0.0095	ug/l	
76-44-8	Heptachlor	ND	0.019	0.0076	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.019	0.0038	ug/l	
8001-35-2	Toxaphene	ND	1.4	1.0	ug/l	
12674-11-2	Aroclor 1016	ND	0.24	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.47	0.37	ug/l	
11141-16-5	Aroclor 1232	ND	0.47	0.24	ug/l	
53469-21-9	Aroclor 1242	ND	0.47	0.19	ug/l	
12672-29-6	Aroclor 1248	ND	0.47	0.19	ug/l	
11097-69-1	Aroclor 1254	ND	0.47	0.19	ug/l	
11096-82-5	Aroclor 1260	ND	0.24	0.085	ug/l	
1336-36-3	Total PCBs	ND	0.47	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		29-150%
877-09-8	Tetrachloro-m-xylene	88%		29-150%
2051-24-3	Decachlorobiphenyl	81%		21-125%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID:	DECKER LEASE	Date Sampled:	09/29/14
Lab Sample ID:	D62854-1	Date Received:	10/01/14
Matrix:	AQ - Water	Percent Solids:	n/a
Method:	EPA 608 EPA 608		
Project:	Decker Lease		

## Pesticide/PCB PPL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2051-24-3	Decachlorobiphenyl	73%		21-125%

ND = Not detected      MDL = Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

Client Sample ID: DECKER LEASE

Lab Sample ID: D62854-1

Matrix: AQ - Water

Project: Decker Lease

Date Sampled: 09/29/14

Date Received: 10/01/14

Percent Solids: n/a

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Petroleum Hydrocarbons	< 4.8	4.8	mg/l	.95238	10/14/14	SWT	EPA 1664A
Solids, Total Dissolved	990	10	mg/l	1	10/02/14	BF	SM 2540C-2011
Solids, Total Suspended	< 5.0	5.0	mg/l	1	10/03/14	BF	SM 2540D-2011

RL = Reporting Limit

## Report of Analysis

Client Sample ID: DECKER LEASE

Lab Sample ID: D62854-1A

Matrix: AQ - Water

Project: Decker Lease

Date Sampled: 09/29/14

Date Received: 10/01/14

Percent Solids: n/a

## Total Recoverable Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	2.2	0.40	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Beryllium	< 0.40	0.40	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Cadmium	< 0.20	0.20	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Chromium	< 4.0	4.0	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Copper	4.8	4.0	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Lead	< 1.0	1.0	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Nickel	< 4.0	4.0	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>
Selenium	< 0.80	0.80	ug/l	2	10/03/14	10/16/14 JM	EPA 200.8 <sup>2</sup>	EPA 200.8 <sup>3</sup>
Zinc	< 20	20	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>3</sup>

(1) Instrument QC Batch: MA5372

(2) Instrument QC Batch: MA5378

(3) Prep QC Batch: MP14186

RL = Reporting Limit

## Report of Analysis

Page 1 of 1

Client Sample ID: DECKER LEASE

Lab Sample ID: D62854-1A

Matrix: AQ - Water

Project: Decker Lease

Date Sampled: 09/29/14

Date Received: 10/01/14

Percent Solids: n/a

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent <sup>a</sup>	<0.010	0.010	mg/l	1	10/10/14 08:30	AK	SM 3500CR B-2011
Chromium, Trivalent <sup>b</sup>	<0.014	0.014	mg/l	1	10/15/14 05:59	JM	SW846 6010C/7196A M

(a) Sample preserved within 24hrs. to extend the hold time.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

## Report of Analysis

Page 1 of 1

Client Sample ID:	DECKER LEASE	Date Sampled:	09/29/14
Lab Sample ID:	D62854-1FA	Date Received:	10/01/14
Matrix:	AQ - Potentially Diss. AQ	Percent Solids:	n/a
Project:	Decker Lease		

## Potentially Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.8	0.40	ug/l	2	10/03/14	10/15/14 JM	EPA 200.8 <sup>1</sup>	EPA 200.8 <sup>2</sup>

(1) Instrument QC Batch: MA5372

(2) Prep QC Batch: MP14186

RL = Reporting Limit





**ACCUTEST**  
Mountain States

06/03/16

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*e-Hardcopy 2.0*  
Automated Report

**Technical Report for**

**Diamond Operating Inc.**

Decker Lease

SGS Accutest Job Number: D82770

Sampling Date: 05/16/16

Report to:

Diamond Operating Inc.  
6666 Gunpark Drive Suite 200  
Boulder, CO 80301  
davep@flatironenergy.com

ATTN: Dave Peterson

Total number of pages in report: 18



Test results contained within this data package meet the requirements  
of the National Environmental Laboratory Accreditation Program  
and/or state specific certification programs as applicable.

Scott Heideman  
Laboratory Director

Client Service contact: Renea Lewis 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049),  
LA (LA150028), TX (T104704511), WY  
CO (CO00049)

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Test results relate only to samples analyzed.



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SGS Accutest

## Sample Summary

Diamond Operating Inc.

Job No: D82770

Decker Lease

Sample Number	Collected		Time By	Matrix			Client Sample ID
	Date			Received	Code	Type	
D82770-1	05/16/16	18:30	RG	05/18/16	AQ	Water	DECKER LEASE

## Summary of Hits

Page 1 of 1

Job Number: D82770  
Account: Diamond Operating Inc.  
Project: Decker Lease  
Collected: 05/16/16



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D82770-1	DECKER LEASE					
Toluene		2.2	2.0	1.0	ug/l	EPA 602
Ethylbenzene		4.2	2.0	1.0	ug/l	EPA 602
Xylenes (total)		12.0	2.0	2.0	ug/l	EPA 602
HEM Petroleum Hydrocarbons		32.8	4.8		mg/l	EPA 1664A





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Section 3



Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b>	DECKER LEASE	<b>Date Sampled:</b>	05/16/16
<b>Lab Sample ID:</b>	D82770-1	<b>Date Received:</b>	05/18/16
<b>Matrix:</b>	AQ - Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	EPA 602		
<b>Project:</b>	Decker Lease		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	TA33207.D	1	05/20/16	AK	n/a	n/a	GTA1698
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	2.2	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	4.2	2.0	1.0	ug/l	
1330-20-7	Xylenes (total)	12.0	2.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	122%		76-122%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

**Client Sample ID:** DECKER LEASE  
**Lab Sample ID:** D82770-1  
**Matrix:** AQ - Water  
**Project:** Decker Lease

**Date Sampled:** 05/16/16  
**Date Received:** 05/18/16  
**Percent Solids:** n/a

## General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Petroleum Hydrocarbons	32.8	4.8	mg/l	.952380906/03/16	SWT	EPA 1664A	

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RL = Reporting Limit

## Misc. Forms

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## Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



[illegible]

## D82770: Chain of Custody

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