CHEMTECH-FORD
LABORATORIES

10/20/2014

Work Order: 1409924

Alton Coal Development, LLC
Attn: Kirk Nicholes
463 North 100 West Ste 1
Cedar City, UT 84721

Client Service Contact: 801.262.7299

Approved By: Dave Gayer, Laboratory Director

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1409924-01

Name:	Alton Coal Development, LLC	***Sample Date:***	9/9/2014 2:30 PM
Sample Site:	Pond 3	***Receipt Date:***	9/11/2014 11:45 AM
Comments:		***Sampler:***	
Sample Matrix:	Water	***Site No.:***	
Field pH:	9.4	***Field Temp. Deg. C :***	
Field Flow g/Min.:		***Field Cond. umhos/cm:***	
PO Number:		***Project Number:***	Coal Hollow Mine

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic							
Cyanide, Total	ND	0.002	mg/L	SM 4500 CN-E	09/15/2014 19:38	9/17/2014 15:19	
Phenols, Total	ND	0.002	mg/L	EPA 420.1	09/22/2014 11:15	9/23/2014 15:45	
Metals							
Antimony, Total	ND	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Arsenic, Total	0.0026	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Beryllium, Total	ND	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Cadmium, Total	ND	0.0002	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Chromium, Total	0.0041	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Copper, Total	0.0053	0.0010	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Lead, Total	0.0042	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Mercury, Total	ND	0.0002	mg/L	EPA 245.1	09/16/2014 10:00	9/16/2014 14:00	
Nickel, Total	0.0064	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Selenium, Total	0.0027	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Silver, Total	ND	0.0005	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Thallium, Total	ND	0.0002	mg/L	EPA 200.8	09/15/2014 10:33	9/16/2014 9:46	
Zinc, Total	0.02	0.01	mg/L	EPA 200.7	09/15/2014 10:26	9/16/2014 12:39	
Pesticides							
4,4'-DDD	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
4,4'-DDE	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
4,4'-DDT	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
alpha-Chlordane	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Aldrin	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
alpha-BHC	ND	0.05	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
beta-BHC	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
delta-BHC	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Dieldrin	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Endosulfan I	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Endosulfan II	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Endosulfan sulfate	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Endrin	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Endrin aldehyde	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Endrin ketone	ND	0.2	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
gamma-Chlordane	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	

9632 South 500 West
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801-262-7299 Office

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1409924-01

Name: Alton Coal Development, LLC
Sample Site: Pond 3
Comments:
Sample Matrix: Water
Field pH: 9.4
Field Flow g/Min.:
PO Number:

Sample Date: 9/9/2014 2:30 PM
Receipt Date: 9/11/2014 11:45 AM
Sampler:
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project Number: Coal Hollow Mine

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Pesticides							
Heptachlor	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Heptachlor epoxide	ND	0.1	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Lindane	ND	0.05	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Methoxychlor	ND	1.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1016	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1221	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1232	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1242	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1248	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1254	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
PCB-1260	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Toxaphene	ND	2.0	ug/L	EPA 608	09/15/2014 10:05	9/16/2014 3:16	
Semi-Volatile Compounds							
1,2,4-Trichlorobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
1,2-Dichlorobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
1,3-Dichlorobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
1,4-Dichlorobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2,4,6-Trichlorophenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2,4-Dichlorophenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2,4-Dimethylphenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2,4-Dinitrophenol	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2,4-Dinitrotoluene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2,6-Dinitrotoluene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2-Chloronaphthalene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2-Chlorophenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2-Nitrophenol	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
2-Methylphenol	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
3,3'-Dichlorobenzidine	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
4,6-Dinitro-2-methylphenol	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
4-Bromophenyl phenyl ether	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
3 & 4-Methylphenol	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
4-Chloro-3-methylphenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
4-Chlorophenyl Phenyl Ether	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	

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Sample Site: Pond 3	***Receipt Date:*** 9/11/2014 11:45 AM
Comments:	***Sampler:***
Sample Matrix: Water	***Site No.:***
Field pH: 9.4	***Field Temp. Deg. C :***
Field Flow g/Min.:	***Field Cond. umhos/cm:***
PO Number:	***Project Number:*** Coal Hollow Mine

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Semi-Volatile Compounds							
4-Nitrophenol	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Acenaphthene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Acenaphthylene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Anthracene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Azobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Benzidine	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Benzo (a) anthracene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Benzo (a) pyrene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Benzo (b) fluoranthene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Benzo (g,h,i) perylene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Benzo (k) fluoranthene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Bis (2-chloroethoxy) Methane	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Bis (2-chloroethyl) Ether	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Bis (2-chloroisopropyl) Ether	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Bis (2-ethylhexyl) Phthalate	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Butylbenzylphthalate	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Carbazole	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Chrysene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
n-Decane	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Dibenzo (a,h) anthracene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Diethylphthalate	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Dimethyl phthalate	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Di-n-butylphthalate	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Di-n-Octylphthalate	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Fluoranthene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Fluorene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Hexachlorobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Hexachlorobutadiene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Hexachlorocyclopentadiene	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Hexachloroethane	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Indeno (1,2,3-cd) pyrene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Isophorone	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Naphthalene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Nitrobenzene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1409924-01

Name: Alton Coal Development, LLC
Sample Site: Pond 3
Comments:
Sample Matrix: Water
Field pH: 9.4
Field Flow g/Min.:
PO Number:

Sample Date: 9/9/2014 2:30 PM
Receipt Date: 9/11/2014 11:45 AM
Sampler:
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project Number: Coal Hollow Mine

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Semi-Volatile Compounds							
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
N-Nitrosodi-n-propylamine	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
N-Nitrosodiphenylamine	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
n-Octadecane	ND	10	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Pentachlorophenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Phenanthrene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Phenol	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Pyrene	ND	5	ug/L	EPA 625	09/15/2014 08:30	9/15/2014 11:30	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,1-Dichloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,1-Dichloroethene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,1-Dichloropropene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2,3-Trichlorobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2,3-Trichloropropane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2,4-Trichlorobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2,4-Trimethylbenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2-Dibromoethane (EDB)	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2-Dichloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,2-Dichloropropane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,3,5-Trimethylbenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,3-Dichloropropane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
2,2-Dichloropropane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
2-Chloroethyl vinyl ether	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
2-Chlorotoluene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
4-Chlorotoluene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	

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CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1409924-01

Name: Alton Coal Development, LLC
Sample Site: Pond 3
Comments:
Sample Matrix: Water
Field pH: 9.4
Field Flow g/Min.:
PO Number:

Sample Date: 9/9/2014 2:30 PM
Receipt Date: 9/11/2014 11:45 AM
Sampler:
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project Number: Coal Hollow Mine

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Volatile Organic Compounds							
4-Isopropyltoluene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Acetone	ND	50	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Acrolein	ND	100	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Acrylonitrile	ND	50	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Benzene	ND	2	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Bis(Chloromethyl)ether	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Bromobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Bromochloromethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Bromodichloromethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Bromoform	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Bromomethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Carbon Disulfide	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Carbon Tetrachloride	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Chlorobenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Chloroethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Chloroform	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Chloromethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
cis-1,2-Dichloroethene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Dibromochloromethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Dibromomethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Dichlorodifluoromethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Ethyl Acetate	ND	50	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Ethylbenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Hexachlorobutadiene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Isopropylbenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Methyl Ethyl Ketone	ND	50	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Methyl Isobutyl Ketone	ND	50	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Methylene Chloride	ND	10	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Methyl-tert-butyl ether (MTBE)	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Naphthalene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
n-Butylbenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
n-Propyl Benzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
sec-Butyl Benzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	

CHEMTECH-FORD
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Certificate of Analysis

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Sample Site: Pond 3
Comments:
Sample Matrix: Water
Field pH: 9.4
Field Flow g/Min.:
PO Number:

Sample Date: 9/9/2014 2:30 PM
Receipt Date: 9/11/2014 11:45 AM
Sampler:
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project Number: Coal Hollow Mine

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Volatile Organic Compounds							
Styrene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
tert-Butylbenzene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Tetrachloroethene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Toluene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Trichloroethene	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Trichlorofluoromethane	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Vinyl Chloride	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	
Xylenes, total	ND	5	ug/L	EPA 624	09/19/2014 17:25	9/19/2014 17:25	

9632 South 500 West
Sandy UT 84070
801-262-7299 Office

KR

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: Alton Coal Development
ADDRESS: 463 N 100 W Suite 1
CITY/STATE/ZIP: Cedar City, Utah 84721
PHONE #: 435-867-5331 FAX: 435-867-1192
CONTACT: Kirk Nicholes PROJECT: Coal Hollow Mine
EMAIL: knicholes@altoncoal.com

BILLING ADDRESS: 463 N 100 W Suite 1
BILLING CITY/STATE/ZIP: Cedar City, Utah 84721
PURCHASE ORDER #:

CHEMTECH-FORD

TURNAROUND REQUIRED:

Lab Use Only	CLIENT SAMPLE INFORMATION					TESTS REQUESTED	Bacteria			
09924	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	Field Residual Chlorine	NET (see list)	Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (Plate Count)	E. Coli Only
01	Pond 3	9/9/14	14:30	Water		X				

Sampled by (Signature): B. Kirk Nicholes
Sampled by (Signature): B. Kirk Nicholes
Special Instructions:

ON ICE NOT ON ICE Temp (C°): 15.6°

Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Received by (Signature): B. Kirk Nicholes
Date Time: 9/10/14 7:43
Received by (Signature): [signature]
Date Time: 9/11/14 11:45
Received by (Signature):
Date Time:
Received by (Signature):

CHEMTECH-FORD
9637 South 500 West
Sandy, UT 84070

801 262 7299 PHONE
866 792 0093 FAX
www.chemtechford.com

Payment Terms are net 30 days OK

Field pH 9.4

P: GRAY S: XXMY I: 2
MATT - 5016
1Z51E51E0392 0493

CHEMTECH-FORD
LABORATORIES

1/12/2016

Work Order: 1512242

Alton Coal Development, LLC

Attn: Kirk Nicholes

463 North 100 West Ste 1

Cedar City, UT 84721

Client Service Contact: 801.262.7299

Approved By: Dave Gayer, Laboratory Director

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512242-01

Name:	**Alton Coal Development, LLC**	***Sample Date:***	10/22/2015 2:15 PM
Sample Site:	Pond 4	***Receipt Date:***	10/23/2015 12:30 PM
Comments:		***Sampler:***	Kirk Nicholes
Sample Matrix:	Water	***Site No.:***	
Field pH:	8.7	***Field Temp. Deg. C :***	
Field Flow g/Min.:		***Field Cond. umhos/cm:***	
PO Number:		***Project:***	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic							
Cyanide, Total	0.008	0.002	mg/L	SM 4500 CN-E	10/26/2015 09:42	10/28/2015 10:00	
Oil & Grease (HEM)	ND	5	mg/L	EPA 1664A	11/02/2015 10:56	11/3/2015 16:00	
pH	8.4	0.1	pH Units	SM 4500 H-B	10/23/2015 15:00	10/23/2015 15:00	SPH
Phenols, Total	ND	0.050	mg/L	EPA 420.1	10/27/2015 16:10	10/28/2015 15:37	SL-01
Settleable Solids	ND	1.0	mL/L	SM 2540 F	10/23/2015 13:30	10/23/2015 16:45	
Total Dissolved Solids (TDS)	316	20	mg/L	SM 2540 C	10/29/2015 10:01	10/29/2015 10:01	
Total Suspended Solids (TSS)	6	4	mg/L	SM 2540 D	10/29/2015 10:00	10/29/2015 10:00	
Metals							
Antimony, Total	ND	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Arsenic, Total	0.0018	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Boron, Total	0.07	0.05	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 11:30	
Beryllium, Total	ND	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Cadmium, Total	ND	0.0002	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Chromium, Total	0.0010	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Copper, Total	0.0022	0.0010	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Iron, Total	1.08	0.02	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 11:30	
Lead, Total	0.0008	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Mercury, Total	ND	0.00020	mg/L	EPA 245.1	10/26/2015 10:30	10/26/2015 14:20	
Nickel, Total	0.0025	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Selenium, Dissolved	0.0009	0.0005	mg/L	EPA 200.8	10/27/2015 08:19	10/28/2015 12:55	
Selenium, Total	0.0015	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Silver, Total	ND	0.0005	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Thallium, Total	ND	0.0002	mg/L	EPA 200.8	10/29/2015 10:00	11/2/2015 10:03	
Zinc, Total	ND	0.01	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 11:30	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512242-01

Name: Alton Coal Development, LLC
Sample Site: Pond 4
Comments:
Sample Matrix: Water
Field pH: 8.7
Field Flow g/Min.:
PO Number:

Sample Date: 10/22/2015 2:15 PM
Receipt Date: 10/23/2015 12:30 PM
Sampler: Kirk Nicholes
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project:

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Pesticides							
4,4'-DDD	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
4,4'-DDE	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
4,4'-DDT	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
alpha-Chlordane	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Aldrin	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
alpha-BHC	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
beta-BHC	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
delta-BHC	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Dieldrin	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Endosulfan I	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Endosulfan II	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Endosulfan sulfate	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Endrin	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Endrin aldehyde	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Endrin ketone	ND	0.2	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
gamma-Chlordane	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Heptachlor	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Heptachlor epoxide	ND	0.1	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Lindane	ND	0.05	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Methoxychlor	ND	1.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1016	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1221	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1232	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1242	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1248	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1254	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
PCB-1260	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	
Toxaphene	ND	2.0	ug/L	EPA 608	10/29/2015 10:00	10/30/2015 17:45	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512242-01

Name:	Alton Coal Development, LLC	**Sample Date:**	10/22/2015 2:15 PM
Sample Site:	Pond 4	**Receipt Date:**	10/23/2015 12:30 PM
Comments:		**Sampler:**	Kirk Nicholes
Sample Matrix:	Water	**Site No.:**	
Field pH:	8.7	**Field Temp. Deg. C :**	
Field Flow g/Min.:		**Field Cond. umhos/cm:**	
PO Number:		**Project:**	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Semi Volatile Compounds							
1,2,4-Trichlorobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
1,2-Dichlorobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
1,2-Diphenylhydrazine	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
1,3-Dichlorobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
1,4-Dichlorobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2,4,6-Trichlorophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2,4-Dichlorophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2,4-Dimethylphenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2,4-Dinitrophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2,4-Dinitrotoluene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2,6-Dinitrotoluene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2-Chloronaphthalene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2-Chlorophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
2-Nitrophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
3,3'-Dichlorobenzidine	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
4,6-Dinitro-2-methylphenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
4-Bromophenyl phenyl ether	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
4-Chloro-3-methylphenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
4-Chlorophenyl Phenyl Ether	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
4-Nitrophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Acenaphthene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Acenaphthylene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Anthracene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Benzidine	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Benzo (a) anthracene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Benzo (a) pyrene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Benzo (b) fluoranthene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Benzo (g,h,i) perylene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Benzo (k) fluoranthene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Azobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Bis (2-chloroethoxy) Methane	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Bis (2-chloroethyl) Ether	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Bis (2-chloroisopropyl) Ether	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Bis (2-ethylhexyl) Phthalate	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512242-01

Name: Alton Coal Development, LLC
Sample Site: Pond 4
Comments:
Sample Matrix: Water
Field pH: 8.7
Field Flow g/Min.:
PO Number:

Sample Date: 10/22/2015 2:15 PM
Receipt Date: 10/23/2015 12:30 PM
Sampler: Kirk Nicholes
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project:

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Semi Volatile Compounds							
Butylbenzylphthalate	6	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	B1
Chrysene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Dibenzo (a,h) anthracene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Diethylphthalate	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Dimethyl phthalate	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Di-n-butylphthalate	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Di-n-Octylphthalate	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Fluoranthene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Fluorene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Hexachlorobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Hexachlorobutadiene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Hexachlorocyclopentadiene	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Hexachloroethane	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Indeno (1,2,3-cd) pyrene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Isophorone	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Naphthalene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Nitrobenzene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
N-Nitrosodimethylamine	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
N-Nitrosodi-n-propylamine	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
N-Nitrosodiphenylamine	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Pentachlorophenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Phenanthrene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Phenol	ND	10	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	
Pyrene	ND	5	ug/L	EPA 625	10/28/2015 10:18	10/28/2015 19:57	

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: Alton Coal Development, LLC
ADDRESS: 463 N. 100 W. Suite 1
CITY/STATE/ZIP: Cedar City, Utah 84721
PHONE #: 435-691-1551 FAX:
CONTACT: Kirk Nicholes PROJECT:
EMAIL: Knicholes@altoncoal.com

BILLING ADDRESS: ← Same
BILLING CITY/STATE/ZIP:
PURCHASE ORDER #:

CHEMTECH-FORD LABORATORIES

TURNAROUND REQUIRED:* Standard

* Expedited turnaround subject to additional charge

12242

Lab Use Only	CLIENT SAMPLE INFORMATION: LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	Field: Residual Chlorine	TESTS REQUESTED: Oil & Grease	Total Iron	Total Suspended Solids	Total Dissolved Solids	Dissolved Selenium	pH	Settleable Solids	Attached list	Field pH 8.7	Bacteria: Total Coliform - E. coli (Present/Absent)	Total Coliform - E. coli (Enumerated)	HPC (Plate Count)	E. Coli Only
-01	1 Pond 4	10/22/15	1415	Water		X	X	X	X	X	X	X	X					
	2																	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	

Sampled by [print]: B. Kirk Nicholes
Sampled by [signature]: B. Kirk Nicholes

ON ICE NOT ON ICE Temp (C°): 5.1°

Special Instructions:

Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Relinquished by [signature]	Date/Time	Received by [signature]	Date/Time
B. Kirk Nicholes	10/21/15 8:42am		
B. Kirk Nicholes	10/23/15 12:30pm	David W. Gayan	10/23/15 12:30

CHEMTECH-FORD
9632 South 600 West
Sandy, UT 84070

801.262.7299 PHONE
866.792.0093 FAX
www.chemtechford.com

Payment Terms are net 30 days OAC 1.5% interest charge per month (18% per annum) Client agress to pay collection costs and attorney's fees

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
UTG040027	003

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and the outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL trace metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X		X												
2M. Arsenic, Total (7440-38-2)	X		X												
3M. Beryllium, Total (7440-41-7)	X		X												
4M. Cadmium, Total (7440-43-9)	X		X												
5M. Chromium, Total (7440-47-3)	X		X												
6M. Copper, Total (7440-50-8)	X		X												
7M. Lead, Total (7439-92-1)	X		X												
8M. Mercury, Total (7439-97-6)	X		X												
9M. Nickel, Total (7440-02-0)	X		X												
10M. Selenium, Total (7782-49-2)	X	X													
11M. Silver, Total (7440-22-4)	X		X												
12M. Thallium, Total (7440-28-0)	X		X												
13M. Zinc, Total (7440-66-6)	X		X												
14M. Cyanide, Total (57-12-5)	X		X												
15M. Phenols, Total	X		X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)	X		X	DESCRIBE RESULTS											

Sub contracted

200.8
200.7

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X		X												
2V. Acrylonitrile (107-13-1)	X		X												
3V. Benzene (71-43-2)	X	X													
4V. Bis (2-Chloroethyl) Ether (542-88-1)	X		X												
5V. Bromoform (75-25-2)	X		X												
6V. Carbon Tetrachloride (56-23-5)	X		X												
7V. Chlorobenzene (108-90-7)	X		X												
8V. Chlorodibromomethane (124-48-1)	X		X												
9V. Chloroethane (75-00-3)	X		X												
10V. 2-Chloroethylvinyl Ether (110-75-8)	X		X												
11V. Chloroform (67-66-3)	X		X												
12V. Dichlorobromomethane (75-27-4)	X		X												
13V. Dichlorodifluoromethane (75-71-8)	X		X												
14V. 1,1-Dichloroethane (75-34-3)	X		X												
15V. 1,2-Dichloroethane (107-06-2)	X		X												
16V. 1,1-Dichloroethylene (75-35-4)	X		X												
17V. 1,2-Dichloropropane (78-87-5)	X		X												
18V. 1,3-Dichloropropylene (542-75-6)	X		X												
19V. Ethylbenzene (100-41-4)	X	X													
20V. Methyl Bromide (74-83-9)	X		X												
21V. Methyl Chloride (74-87-3)	X		X												

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CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X		X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X		X												
24V. Tetrachloroethylene (127-18-4)	X		X												
25V. Toluene (108-88-3)	X	X													
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X		X												
27V. 1,1,1-Trichloroethane (71-55-6)	X		X												
28V. 1,1,2-Trichloroethane (79-00-5)	X		X												
29V Trichloroethylene (79-01-6)	X		X												
30V. Trichlorofluoromethane (75-69-4)	X		X												
31V. Vinyl Chloride (75-01-4)	X		X												
GC/MS FRACTION – ACID COMPOUNDS															
1A 2-Chlorophenol (95-57-8)	X		X												
2A 2,4-Dichlorophenol (120-83-2)	X		X												
3A 2,4-Dimethylphenol (105-67-9)	X		X												
4A 4,6-Dinitro-O-Cresol (534-52-1)	X		X												
5A 2,4-Dinitrophenol (51-28-5)	X		X												
6A 2-Nitrophenol (88-75-5)	X		X												
7A 4-Nitrophenol (100-02-7)	X		X												
8A P-Chloro-M-Cresol (59-50-7)	X		X												
9A Pentachlorophenol (87-86-5)	X		X												
10A Phenol (108-95-2)	X		X												
11A 2,4,6-Trichlorophenol (88-05-2)	X		X												

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVG VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B) Acenaphthene (83-32-9)	X		X												
2B) Acenaphthylene (208-96-8)	X		X												
3B) Anthracene (120-12-7)	X		X												
4B) Benzidine (92-87-5)	X		X												
5B) Benzo (a) Anthracene (56-55-3)	X		X												
6B) Benzo (a) Pyrene (50-32-8)	X		X												
7B) 3,4 Benzo fluoranthene (205-99-2)	X		X												
8B) Benzo (ghi) Perylene (191-24-2)	X		X												
9B) Benzo (k) fluoranthene (207-08-9)	X		X												
10B) Bis (2-Chloroethoxy) Methane (111-91-1)	X		X												
11B) Bis (2-Chloroethyl) Ether (111-44-4)	X		X												
12B) Bis (2-Chloroisopropyl) Ether (102-80-1)	X		X												
13B) Bis (2-Ethylhexyl) Phthalate (117-81-7)	X		X												
14B) 4 Bromophenyl Phenyl Ether (101-55-3)	X		X												
15B) Butyl Benzyl Phthalate (85-68-7)	X		X												
16B) 2-Chloro naphthalene (91-58-7)	X		X												
17B) 4 Chloro phenyl Phenyl Ether (7005-72-3)	X		X												
18B) Chrysene (218-01-9)	X		X												
19B) Dibenzo (a,h) Anthracene (53-70-3)	X		X												
20B) 1,2-Dichloro benzene (95-50-1)	X		X												
21B) 1,3 Dichloro benzene (541-73-1)	X		X												

EPA Form 3510-2C (8-90)

CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)	X		X												
23B. 3,3 Dichlorobenzidine (91-94-1)	X		X												
24B. Diethyl Phthalate (84-66-2)	X		X												
25B. Dimethyl Phthalate (131-11-3)	X		X												
26B. Di-N butyl Phthalate (84-74-2)	X		X												
27B. 2,4-Dinitrotoluene (121-14-2)	X		X												
28B. 2,6-Dinitrotoluene (606-20-2)	X		X												
29B. Di-N Octyl Phthalate (117-84-0)	X		X												
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X		X												
31B. Fluoranthene (206-44-0)	X		X												
32B. Fluorene (86-73-7)	X		X												
33B. Hexachlorobenzene (118-74-1)	X		X												
34B. Hexachlorobutadiene (87-68-3)	X		X												
35B. Hexachlorocyclopentadiene (77-47-4)	X		X												
36B. Hexachloroethane (67-72-1)	X		X												
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X		X												
38B. Isophorone (78-59-1)	X		X												
39B. Naphthalene (91-20-3)	X	X													
40B. Nitrobenzene (98-95-3)	X		X												
41B. N-Nitrosodimethylamine (62-75-9)	X		X												
42B. N-Nitrosodi-N Propylamine (621-64-7)	X		X												

CONTINUE ON REVERSE

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CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)	X		X												
44B. Phenanthrene (85-01-8)	X		X												
45B. Pyrene (129-00-0)	X		X												
46B. 1,2,4-Trichlorobenzene (120-82-1)	X		X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X		X												
2P. α-BHC (319-84-6)	X		X												
3P. β-BHC (319-85-7)	X		X												
4P. γ-BHC (58-89-9)	X		X												
5P. δ-BHC (319-86-8)	X		X												
6P. Chlordane (57-74-9)	X		X												
7P. 4,4'-DDT (50-29-3)	X		X												
8P. 4,4'-DDE (72-55-9)	X		X												
9P. 4,4'-DDD (72-54-8)	X		X												
10P. Dieldrin (60-57-1)	X		X												
11P. α-Endosulfan (115-29-7)	X		X												
12P. β-Endosulfan (115-29-7)	X		X												
13P. Endosulfan Sulfate (1031-07-8)	X		X												
14P. Endrin (72-20-8)	X		X												
15P. Endrin Aldehyde (7421-93-4)	X		X												
16P. Heptachlor (76-44-8)	X		X												

CONTINUE ON PAGE V-9

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
UTG040027	003

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)	X		X												
18P. PCB-1242 (53469-21-9)	X		X												
19P. PCB-1254 (11097-69-1)	X		X												
20P. PCB-1221 (11104-28-2)	X		X												
21P. PCB-1232 (11141-16-5)	X		X												
22P. PCB-1248 (12672-29-6)	X		X												
23P. PCB-1260 (11096-82-5)	X		X												
24P. PCB-1016 (12674-11-2)	X		X												
25P. Toxaphene (8001-35-2)	X		X												

Work Order # 12243

CHEMTECH FORD LABORATORIES

Sample Receipt

CHEMTECH-FORD LABORATORIES

Delivery Method:

- ☐ UPS
- ☐ USPS
- ☐ FedEx
- ☐ Chemtech Courier
- ☑ Walk-in
- ☐ Customer Courier

Receiving Temperature 5.1 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
– 01	AQ1-3	–						
	M	317						
	C	300						
	O	315						
	P	248						
	D1-2	316						
	G	–						Dioxin

Sample Condition (check if yes)

- ☐ Custody Seals
- ☑ Containers Intact
- ☑ COC/Labels Agree
- ☐ Preservation Confirmed
- ☑ Received on Ice
- ☐ Correct Containers(s) – ND 624
- ☑ Sufficent Sample Volume
- ☐ Headspace Present (VOC)
- ☐ Temperature Blank
- ☑ Received within Holding Time

Plastic Containers

- A- Plastic Unpreserved
- B- Miscellaneous Plastic
- C- Cyanide Qt (NaOH)
- E- Coliform/Ecoli/HPC
- F- Sulfide Qt (Zn Acetate)
- L- Mercury 1631
- M- Metals Pint (HNO3)
- N- Nutrient Pint (H2SO4)
- R- Radiological (HNO3)
- S- Sludge Cups/Tubs
- Q- Plastic Bag

Glass Containers

- D- 625 (Na2S2O3)
- G- Glass Unpreserved
- H- HAAs (NH4Cl)
- J- 508/515/525 (Na2SO3)
- K- 515.3 Herbicides
- O- Oil & Grease (HCl)
- P- Phenols (H2SO4)
- T- TOC/TOX (H3PO4)
- U- 531 (MCAA, Na2S2O3)
- V- 524/THMs (Ascorbic Acid)
- W- 8260 VOC (1:1 HCl)
- X- Vial Unpreserved
- Y- 624/504 (Na2S2O3)
- Z- Miscellaneous Glass

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.
1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

SPH = Sample submitted past method specified holding time.

SL-01 = Analysis performed by American West Analytical Labs, 463 W. 3600 S., Salt Lake City, UT 84115.

B1 = Analyte was detected in method blank at similar levels. Result is believed to be a lab contaminant and not from the sample itself. State and EPA rules prohibit any correction of results due to lab contamination and mandate reporting these results.

Additional Report Information

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.

Chemtech-Ford Contact Information

Labortory Director	Dave Gayer	dgayer@chemtechford.com	801.262.7299 (Main)	801.639.1172 (Direct)
QA Officer	Ron Fuller	rfuller@chemtechford.com	801.262.7299 (Main)	801.693.1171 (Direct)

CHEMTECH-FORD
LABORATORIES

1/27/2016

Work Order: 1512368

Alton Coal Development, LLC
Attn: Kirk Nicholes
463 North 100 West Ste 1
Cedar City, UT 84721

Client Service Contact: 801.262.7299

Approved By: Dave Gayer, Laboratory Director

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512368-01

Name:	**Alton Coal Development, LLC**	***Sample Date:***	10/26/2015 2:46 PM
Sample Site:	Pond 2 Outflow	***Receipt Date:***	10/28/2015 7:30 AM
Comments:		***Sampler:***	Kirk Nicholes
Sample Matrix:	Water	***Site No.:***	
Field pH:	8.3	***Field Temp. Deg. C :***	
Field Flow g/Min.:		***Field Cond. umhos/cm:***	
PO Number:		***Project:***	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic							
Oil & Grease (HEM)	ND	5	mg/L	EPA 1664A	11/02/2015 14:08	11/3/2015 16:00	
pH	7.8	0.1	pH Units	SM 4500 H-B	10/28/2015 16:00	10/30/2015 10:40	SPH
Total Dissolved Solids (TDS)	400	20	mg/L	SM 2540 C	10/29/2015 10:01	10/29/2015 10:01	
Total Suspended Solids (TSS)	5	5	mg/L	SM 2540 D	11/02/2015 08:25	11/2/2015 8:25	
Metals							
Boron, Dissolved	0.13	0.05	mg/L	EPA 200.7	10/29/2015 12:04	10/29/2015 15:59	
Boron, Total	0.14	0.05	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 13:37	
Iron, Total	0.27	0.02	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 13:37	
Selenium, Dissolved	0.03	0.02	mg/L	EPA 200.7	10/29/2015 12:04	10/29/2015 15:59	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512368-02

Name: Alton Coal Development, LLC
Sample Site: Pond 4 Outflow
Comments:
Sample Matrix: Water
Field pH: 8.6
Field Flow g/Min.:
PO Number:

Sample Date: 10/26/2015 3:20 PM
Receipt Date: 10/28/2015 7:30 AM
Sampler: Kirk Nicholes
Site No.:
Field Temp. Deg. C :
Field Cond. umhos/cm:
Project:

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Inorganic							
Oil & Grease (HEM)	ND	5	mg/L	EPA 1664A	11/02/2015 14:08	11/3/2015 16:00	
pH	8.2	0.1	pH Units	SM 4500 H-B	10/28/2015 16:00	10/30/2015 10:40	SPH
Total Dissolved Solids (TDS)	292	20	mg/L	SM 2540 C	10/29/2015 10:01	10/29/2015 10:01	
Total Suspended Solids (TSS)	6	4	mg/L	SM 2540 D	11/02/2015 08:25	11/2/2015 8:25	
Metals							
Boron, Dissolved	0.07	0.05	mg/L	EPA 200.7	10/29/2015 12:04	10/29/2015 16:03	
Boron, Total	0.08	0.05	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 13:48	
Iron, Total	0.65	0.02	mg/L	EPA 200.7	10/29/2015 10:00	10/30/2015 13:48	
Selenium, Dissolved	0.02	0.02	mg/L	EPA 200.7	10/29/2015 12:04	10/29/2015 16:03	
Volatile Organic Compounds							
1,1,1-Trichloroethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,1,2-Trichloroethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,1-Dichloroethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,1-Dichloroethene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,2-Dichlorobenzene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,2-Dichloroethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,2,4-Trichlorobenzene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,2-Dichloropropane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,3-Dichlorobenzene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
1,4-Dichlorobenzene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
2-Chloroethyl vinyl ether	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Acrolein	ND	100	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Acrylonitrile	ND	50	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Benzene	ND	2	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Bromodichloromethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Bromoform	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Bromomethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Carbon Tetrachloride	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Chlorobenzene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Chloroethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Chloroform	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Chloromethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1512368-02

Name:	**Alton Coal Development, LLC**	***Sample Date:***	10/26/2015 3:20 PM
Sample Site:	Pond 4 Outflow	***Receipt Date:***	10/28/2015 7:30 AM
Comments:		***Sampler:***	Kirk Nicholes
Sample Matrix:	Water	***Site No.:***	
Field pH:	8.6	***Field Temp. Deg. C :***	
Field Flow g/Min.:		***Field Cond. umhos/cm:***	
PO Number:		***Project:***	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analytical Method	Preparation Date/Time	Analysis Date/Time	Flag
Volatile Organic Compounds							
cis-1,3-Dichloropropene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Dibromochloromethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Ethylbenzene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Hexachlorobutadiene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Methylene Chloride	ND	10	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Nitrobenzene	ND	50	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Tetrachloroethene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Toluene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
trans-1,2-Dichloroethene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
trans-1,3-Dichloropropene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Trichloroethene	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Trichlorofluoromethane	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	
Vinyl Chloride	ND	5	ug/L	EPA 624	10/28/2015 15:14	10/28/2015 15:14	

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY ②

COMPANY: Alton Coal Development, LLC
ADDRESS: 463 N. 100 W. Suite 1
CITY/STATE/ZIP: Cedar City, Utah 84721
PHONE #: 435-691-1551 FAX:
CONTACT: Kirk Nicholes PROJECT:
EMAIL: Knicholes@altoncoal.com

BILLING ADDRESS: ← Same
BILLING CITY/STATE/ZIP:
PURCHASE ORDER #:

CHEMTECH-FORD LABORATORIES

TURNAROUND REQUIRED:* Normal
* Expedited turnaround subject to additional charge

12368

Lab Use Only	CLIENT SAMPLE INFORMATION: LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	Field: Residual Chlorine	TESTS REQUESTED: Oil + Grease	Total Iron	Total Suspended Solids	Total Dissolved Solids	Dissolved Selenium	pH	Attached Liste of 624 VOC	Field pH	Bacteria: Total Coliform - E. coli (Present/Absent)	Total Coliform - E. coli (Enumerated)	HPC (Plate Count)	E. Coli Only
-01	1 Pond 2 Outflow	10/26/15	1446	Water		X	X	X	X	X	X		8.3				
-02	2 Pond 4 Outflow	10/26/15	1520	Water		X	X	X	X	X	X	X	8.6				
	3																
	4																
	5																
	6																
	7																
	8																
	9																
	10																

↑ ONLY RECEIVED FOR SAMPLE -02 @ 10-28-15

Sampled by [print]: B. Kirk Nicholes
Sampled by [signature]: B. Kirk Nicholes

Special Instructions:

ON ICE NOT ON ICE Temp (C°): 10.6°

Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected:

Relinquished by [signature]	Date/Time	Received by [signature]	Date/Time
B. Kirk Nicholes	10/27/15 6:56am	[signature]	10-28-15 7:30

CHEMTECH-FORD
9632 South 500 West
Sandy, UT 84070
801.262.7299 PHONE
866.792.8093 FAX
www.chemtechford.com

Payment Terms are net 30 days OAC 1.5% interest charge per month (18% per annum) Client agrees to pay collection costs and attorney's fees

FED EX

TRK# 0201 7748 3045 4165

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V Acrolein (107-02-8)	X		X												
2V Acrylonitrile (107-13-1)	X		X												
3V Benzene (71-43-2)	X	X													
4V Bis (Chloromethyl) Ether (542-88-1)	X		X												
5V Bromoform (75-25-2)	X		X												
6V Carbon Tetrachloride (56-23-5)	X		X												
7V. Chlorobenzene (108-90-7)	X		X												
8V Chlorodibromomethane (124-48-1)	X		X												
9V Chloroethane (75-00-3)	X		X												
10V 2-Chloroethylvinyl Ether (110-75-8)	X		X												
11V Chloroform (67-66-3)	X		X												
12V Dichlorobromomethane (75-27-4)	X		X												
13V Dichlorodifluoromethane (75-71-8)	X		X												
14V 1,1-Dichloroethane (75-34-3)	X		X												
15V 1,2-Dichloroethane (107-06-2)	X		X												
16V 1,1-Dichloroethylene (75-35-4)	X		X												
17V. 1,2-Dichloropropane (78-87-5)	X		X												
18V 1,3-Dichloropropylene (542-75-6)	X		X												
19V. Ethylbenzene (100-41-4)	X	X													
20V Methyl Bromide (74-83-9)	X		X												
21V Methyl Chloride (74-87-3)	X		X												

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CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X		X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X		X												
24V. Tetrachloro-ethylene (127-18-4)	X		X												
25V. Toluene (108-88-3)	X	X													
26V. 1,2 Trans-Dichloroethylene (156-60-5)	X		X												
27V. 1,1,1-Trichloro-ethane (71-55-6)	X		X												
28V. 1,1,2-Trichloro-ethane (79-00-5)	X		X												
29V Trichloro-ethylene (79-01-6)	X		X												
30V. Trichloro fluoromethane (75-69-4)	X		X												
31V. Vinyl Chloride (75-01-4)	X		X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X		X												
2A. 2,4-Dichloro-phenol (120-83-2)	X		X												
3A. 2,4-Dimethyl-phenol (105-67-9)	X		X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X		X												
5A. 2,4 Dinitro-phenol (51-28-5)	X		X												
6A. 2-Nitrophenol (88-75-5)	X		X												
7A. 4 Nitrophenol (100-02-7)	X		X												
8A. P-Chloro-M-Cresol (59-50-7)	X		X												
9A. Pentachloro-phenol (87-86-5)	X		X												
10A. Phenol (108-95-2)	X		X												
11A. 2,4,6-Trichloro-phenol (88-06-2)	X		X												

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CONTINUE ON REVERSE

Work Order # 12368

CHEMTECH FORD LABORATORIES

Sample Receipt

CHEMTECH-FORD LABORATORIES

Delivery Method:

- ☐ UPS
- ☒ FedEx
- ☐ Walk-in
- ☐ USPS
- ☐ Chemtech Courier
- ☐ Customer Courier

Receiving Temperature 10.6 °C

Sample #	Container	Chemtech Lot # or Preservative	Number of Subsamples	Preserved by Client/Third Party	Preserved in Receiving/Laboratory	Filtered in Field by Client	Misc Volume (oz/mL)	Comments
-01	AP							
	M	568						
	O	559						
	AQ							
-02	AP							
	M	578						
	O	559						
	AQ							
	Y(1-2)	573						

Sample Condition (check if yes)

- ☐ Custody Seals
- ☒ Containers Intact
- ☒ COC/Labels Agree
- ☒ Preservation Confirmed
- ☒ Received on Ice
- ☒ Correct Containers(s)
- ☒ Sufficent Sample Volume
- ☐ Headspace Present (VOC)
- ☐ Temperature Blank
- ☒ Received within Holding Time

Plastic Containers

A- Plastic Unpreserved
B- Miscellaneous Plastic
C- Cyanide Qt (NaOH)
E- Coliform/Ecoli/HPC
F- Sulfide Qt (Zn Acetate)
L- Mercury 1631
M- Metals Pint (HNO3)
N- Nutrient Pint (H2SO4)
R- Radiological (HNO3)
S- Sludge Cups/Tubs
Q- Plastic Bag

Glass Containers

D- 625 (Na2S2O3)
G- Glass Unpreserved
H- HAAs (NH4Cl)
I- 508/515/525 (Na2SO3)
K- 515.3 Herbicides
O- Oil & Grease (HCl)
P- Phenols (H2SO4)
T- TOC/TOX (H3PO4)
U- 531 (MCAA, Na2S2O3)
V- 524/THMs (Ascorbic Acid)
W- 8260 VOC (1:1 HCl)
X- Vial Unpreserved
Y- 624/504 (Na2S2O3)
Z- Miscellaneous Glass

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.
1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

SPH = Sample submitted past method specified holding time.

Additional Report Information

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.

Chemtech-Ford Contact Information

Labortory Director	Dave Gayer	dgayer@chemtechford.com	801.262.7299 (Main)	801.639.1172 (Direct)
QA Officer	Ron Fuller	rfuller@chemtechford.com	801.262.7299 (Main)	801.693.1171 (Direct)