



NONCOMPLIANCE 24-HOUR NOTIFICATION FAX REPORT

State Form 52415 (10-05)
Indiana Department of Environmental Management
Office of Water Quality

INSTRUCTIONS: Complete all parts of this form and fax it to Office of Water Quality, Compliance Evaluation Section at (317) 232-8637 or 232-8406. Thorough completion of this report will satisfy the Office of Water Quality (OWQ) telephone and 5-day written noncompliance notification reporting requirements of your NPDES permit. To speak with someone in OWQ, call (317) 232-8670.

Any noncompliance which may pose a significant danger to human health or the environment must be immediately reported to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

FACILITY INFORMATION		
Facility Name: Gibson County Coal, LLC	County: Gibson	NPDES Permit Number: IN0064157
Individual Reporting: Blake Cutrell	Phone Number: 812-706-6630	Reporting Date: 4/9/2020

NONCOMPLIANCE INFORMATION				
Date:	Outfall:	Parameter:	Permit Limit: (Units/Daily/Weekly/Ave/Max/Min)	Monitored Value:
03/24/20	005	Ammonia	Limits: 1.6 mg/L (Avg) and 2.4 mg/L (Daily)	11 mg/L
03/31/20	005	Ammonia	Limits: 1.6 mg/L (Avg) and 2.4 mg/L (Daily)	14 mg/L

Description of the Noncompliance and its Cause:

Nitrogen Ammonia continues to be elevated as noted above. As reported previously, we believe this is directly related to the Caronavirus (COVID-19) Pandemic. The Pandemic has caused two major changes to operations at Gibson County Coal, LLC. First, 275 employees have been temporarily furloughed. This has reduced WWTP flows by ~88%; flows are now only ~500 gallons per day. Secondly, a 3rd party cleaning company was asked to increase cleaning chemicals used in order to stop the potential spread of the virus. This was to provide a cleaner work place for the safety of the remaining employees. Primarily, larger amounts of bleach are being used during mopping and other cleaning practices. Therefore, the concentration of cleaning chemicals has increased significantly.

These chemicals have harmed or killed the bugs, or biologic activity in the mixed liqueur. This has yielded in poor settleability in the clarifier and an increase in ammonia.

Description of the Period of Noncompliance, Including Exact Dates and Time, and if the Noncompliance has not been Corrected, the Anticipated Time it is Expected to Continue:

Unfortunately, due to COVID-19 and the health crisis we are facing, additional cleaning practices with bleach continue. The period of noncompliance is expected to continue while the health crisis continues. The color of the mixed liquor looks good, but the settleability in the clarifier has decreased.

Steps Taken or Planned to Reduce, Eliminate, and Prevent Reoccurrence of the Noncompliance:

While additional cleaning continues during this health crisis (COVID-19) we expect to see increase TSS and Ammonia. There is little we can do at this time to improve performance of the Plant while the concentration of cleaning chemicals is high.

As soon as the health crisis is over, the chemical concentration will be decreased. At that time, the conditions of the plant will improve.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE:

Blake R. Cutrell

DATE:

4-9-2020



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

LOC1297

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513

Project / PO Number: N/A
Received: 03/24/2020
Reported: 03/30/2020

Project Special Information

SW

IN0064157

Analytical Testing Parameters

Client Sample ID: Outfalls 003D, 003A, 003B

Sample Matrix: Aqueous

Lab Sample ID: LOC1297-01

Collected By: Seth Backes

Collection Date: 03/24/2020 9:14

Table with 9 columns: Inorganics Total, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row 1: Method: USGS I-3765-85, Solids, Total Suspended, 6, 35, 5, mg/L, 03/26/20 0817, 03/26/20 1430, RXG

Table with 9 columns: Metals Total by ICP, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Rows: Method: EPA 200.7, Calcium (92, 0.50, mg/L), Iron (0.41, 2.4, mg/L), Magnesium (33, 0.50, mg/L)

Table with 9 columns: Method: SM 2340B, Hardness, Total as CaCO3, 370, 2.1, mg/L, 03/27/20 0859, 03/27/20 2309, JSW

Table with 9 columns: Anions by IC, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Rows: Method: EPA 300.0, Chloride (860, 2.5, mg/L), Sulfate (76, 2.5, mg/L)

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Table with 9 columns: Field Parameters, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row 1: Method: EPA 600, Flow by Measurement & Calc., 1.85, 0, MGD, 03/24/20 0914, SHB

Table with 9 columns: Method: SM 2550 B 2010, Temperature, 9.7, °C, 03/24/20 0914, SHB

Table with 9 columns: Method: SM 4500 H+ B 2011, pH, 7.35, 6.00-9.00, 1.00, S.U., 03/24/20 0914, SHB



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L0C1297

Client Sample ID: Outfalls 003D, 003A, 003B	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/24/2020 9:14
Lab Sample ID: L0C1297-01	

Inorganics Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM 2540 F 2011								
Solids, Settleable	<0.1	0.5	0.1	mL/L/hr			03/25/20 0947	KDS

Client Sample ID: Outfall 005	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/24/2020 9:05
Lab Sample ID: L0C1297-02	

Inorganics Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM 4500 NH3 G								
Nitrogen, Ammonia	11	1.6	0.25	mg/L		03/25/20 1448	03/27/20 1242	AGR
Method: USGS I-3765-85								
Solids, Total Suspended	7	12	5	mg/L		03/26/20 0817	03/26/20 1430	RXG

Metals Total by ICP	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7								
Phosphorus, Total	0.24	1.0	0.10	mg/L		03/27/20 0859	03/27/20 2316	JSW

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	0.00317		0	MGD			03/24/20 0905	SHB
Method: SM 2550 B 2010								
Temperature	12.0			°C			03/24/20 0905	SHB
Method: SM 4500 H+ B 2011								
pH	7.95	6.00-9.00	1.00	S.U.			03/24/20 0905	SHB
Method: SM 4500 O G 2011								
Oxygen, Dissolved	7.12		0.10	mg/L			03/24/20 0905	SHB



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L0C1297

Client Sample ID: Outfall 006	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/24/2020 10:04
Lab Sample ID: L0C1297-03	

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	No Flow		0	MGD			03/24/20 1004	SHB
Method: NA								
Augmented Flow by Measurement & Calc.	No Flow		0	MGD			03/24/20 1004	SHB

Client Sample ID: Outfall 103	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/24/2020 9:01
Lab Sample ID: L0C1297-04	

Anions by IC	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 300.0								
Chloride	740		2.5	mg/L		03/25/20 1832	03/26/20 2226	JGF
Sulfate	60		2.5	mg/L		03/25/20 1832	03/26/20 2226	JGF

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	3.021		0	MGD			03/24/20 0901	SHB
Method: NA								
Augmented Flow by Measurement & Calc.	0.74		0	MGD			03/24/20 0901	SHB

Client Sample ID: Outfall 106	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/24/2020 10:05
Lab Sample ID: L0C1297-05	

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	No Flow		0	MGD			03/24/20 1005	SHB

Results in bold have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

LOC1297

Definitions

°C:	Degrees Celsius
mg/L:	Milligrams per Liter
MGD:	Millions Of Gallons per Day
RL:	Reporting Limit
S.U.:	Standard Units

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

A handwritten signature in black ink that reads "James Taylor".

James Taylor

Analyst

Reported: 03/30/2020 13:10

Microbac Laboratories, Inc.

3323 Gilmore Industrial Blvd | Louisville, KY 40213 | 502.962.6400 p | www.microbac.com



Chain of Custody

Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



LOC1297

TAT 4 days

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/23/2020
Route: EVV - ARLP - GCC Pond - Weekly

Client Sample ID: Outfalls 003D, 003A, 003B

Lab Sample ID: LOC1297-01

Matrix: Aqueous

Sampled Date & Time: 3/24/20/0914

Type: Grab

Table with 4 columns: Analysis, Method, Field Results/Comments, Hold Time. Rows include FLOW BY MEASUREMENT & CALC., PH, FIELD, TEMPERATURE AT PH READING, ° C - FIELD - EVV, HARDNESS PKG. By ICP - [CALC] 200.7, CHLORIDE - 300.0, SULFATE - 300.0, SOLIDS, SETTLEABLE - EVV, SOLIDS, TOTAL SUSPENDED, IRON, TOTAL RECOVERABLE - ICP 200.7.

Table with 2 columns: Container(s), Designator. Rows include A-50 ML PLASTIC DIGITUBE-4°C, B-250 ML PLASTIC-METALS-HNO3, A-1 LITER PLASTIC - GEN CHEM-4°C, A-1 LITER PLASTIC - GEN CHEM-4°C.

Client Sample ID: Outfall 005

Lab Sample ID: LOC1297-02

Matrix: Aqueous

Sampled Date & Time: 3/24/20/0905

Type: Grab

Table with 4 columns: Analysis, Method, Field Results/Comments, Hold Time. Rows include FLOW BY MEASUREMENT & CALC., OXYGEN, DISSOLVED - FIELD - EVV, PH, FIELD, TEMPERATURE AT PH READING, ° C - FIELD - EVV, NITROGEN, AMMONIA, SOLIDS, TOTAL SUSPENDED, PHOSPHORUS - ICP 200.7.



Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/23/2020
Route: EVV - ARLP - GCC Pond - Weekly

Container(s)	Designator
A-1 LITER PLASTIC - GEN CHEM-4°C	A
B-250 ML PLASTIC-METALS-HNO3	B
C-250 ML PLASTIC - H2SO4	C

Client Sample ID: Outfall 006

Lab Sample ID: L0C1297-03

Matrix: Aqueous

Sampled Date & Time: 3/24/20 / 1001

Type: Grab

Analysis	Method	Field Results/Comments	Hold Time
FLOW BY MEASUREMENT & CALC. - MGD	EPA 600	Field Instrument: _____ Result: <u>No flow</u> Unit: _____	
FLOW, AUGMENTED BY MEASUREMENT & CALC. - MGD	NA	Field Instrument: _____ Result: _____ Unit: _____	
PH, FIELD	SM 4500 H+ B 2011	Field Instrument: _____ Result: _____ Unit: _____	
TEMPERATURE AT PH READING, ° C - FIELD - EVV	SM 2550 B 2010	Field Instrument: _____ Result: _____ Unit: _____	
HARDNESS PKG. By ICP - [CALC] 200.7	varies		180.00 days
CHLORIDE - 300.0	EPA 300.0		28.00 days
SULFATE - 300.0	EPA 300.0		28.00 days
SOLIDS, TOTAL SUSPENDED	USGS I-3765-85		7.00 days
IRON, TOTAL RECOVERABLE - ICP 200.7	EPA 200.7		180.00 days

Container(s)	Designator
A-1 LITER PLASTIC - GEN CHEM-4°C	A
A-50 ML PLASTIC DIGITUBE-4°C	B
B-250 ML PLASTIC-METALS-HNO3	C

Client Sample ID: Outfall 103

Lab Sample ID: L0C1297-04

Matrix: Aqueous

Sampled Date & Time: 3/24/20 / 0901

Type: Grab

Analysis	Method	Field Results/Comments	Hold Time
FLOW BY MEASUREMENT & CALC. - MGD	EPA 600	Field Instrument: _____ Result: <u>3.021</u> Unit: <u>MGD</u>	
FLOW, AUGMENTED BY MEASUREMENT & CALC. - MGD	NA	Field Instrument: _____ Result: <u>0.74</u> Unit: <u>MGD</u>	



Chain of Custody
Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



LOC1297

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/23/2020
Route: EVV - ARLP - GCC Pond - Weekly

CHLORIDE - 300.0	EPA 300.0	28.00 days
SULFATE - 300.0	EPA 300.0	28.00 days
	<u>Container(s)</u>	<u>Designator</u>
	A-50 ML PLASTIC DIGITUBE-4°C	A

Client Sample ID: Outfall 106

Lab Sample ID: LOC1297-05

Matrix: Aqueous

Sampled Date & Time: 3/24/20 / 1005

Type: Grab

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
FLOW BY MEASUREMENT & CALC. - MGD	EPA 600	Field Instrument: _____ Result: <u>No flow</u> Unit: _____	
SOLIDS, TOTAL SUSPENDED	USGS I-3765-85		7.00 days
IRON, TOTAL RECOVERABLE - ICP 200.7	EPA 200.7		180.00 days
	<u>Container(s)</u>		<u>Designator</u>
	B-250 ML PLASTIC-METALS-HNO3		A
	A-1 LITER PLASTIC - GEN CHEM-4°C		B

Sampled/Relinquished by: <u>Seth Bowker</u>	Date/Time: <u>3/24/20 / 1355</u>	Received by: <u>Kim Sutton</u>
Printed Name: <u>Seth Bowker</u>		Printed Name: <u>Kim Sutton</u>
Relinquished by:	Date/Time: /	Received by:
Printed Name:		Printed Name:
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Received at Laboratory: On Ice: Yes / No Temp 1.8 °C Total Containers: 18 8

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

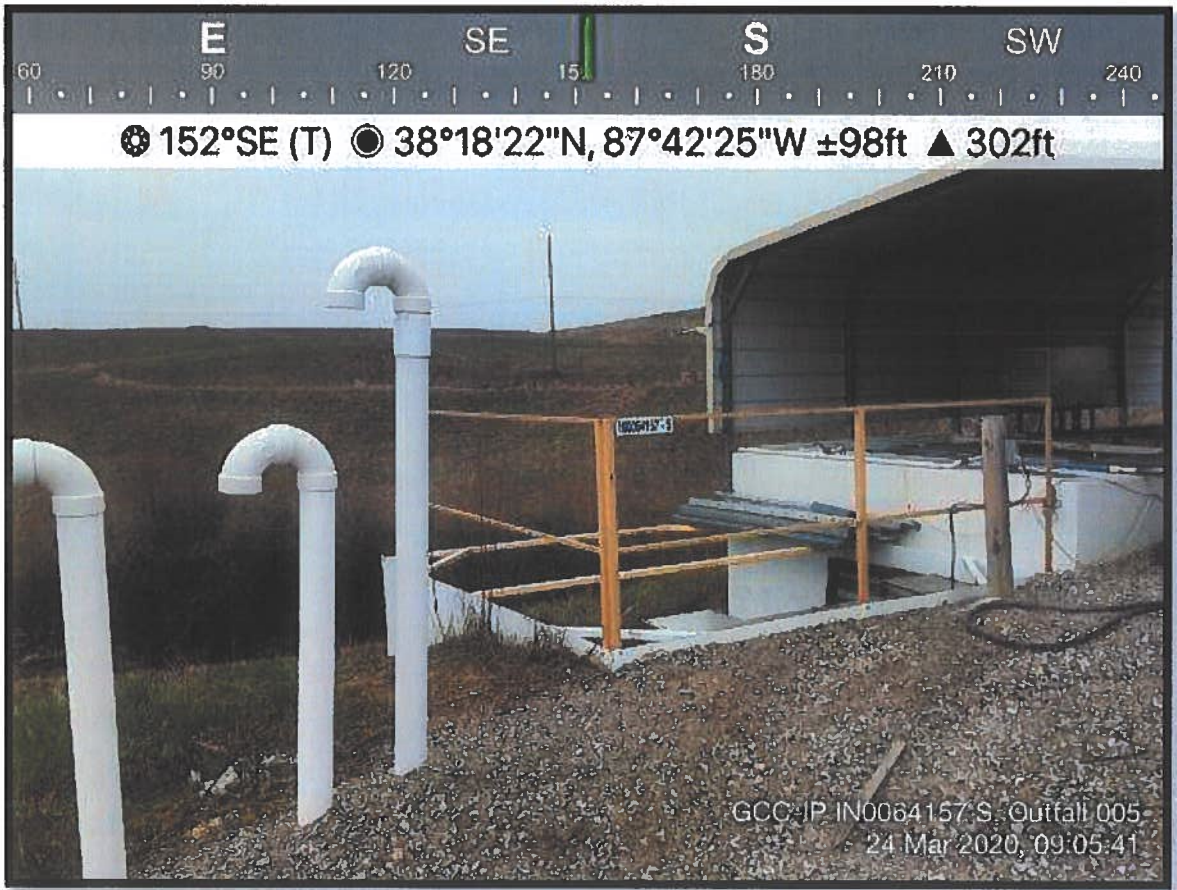
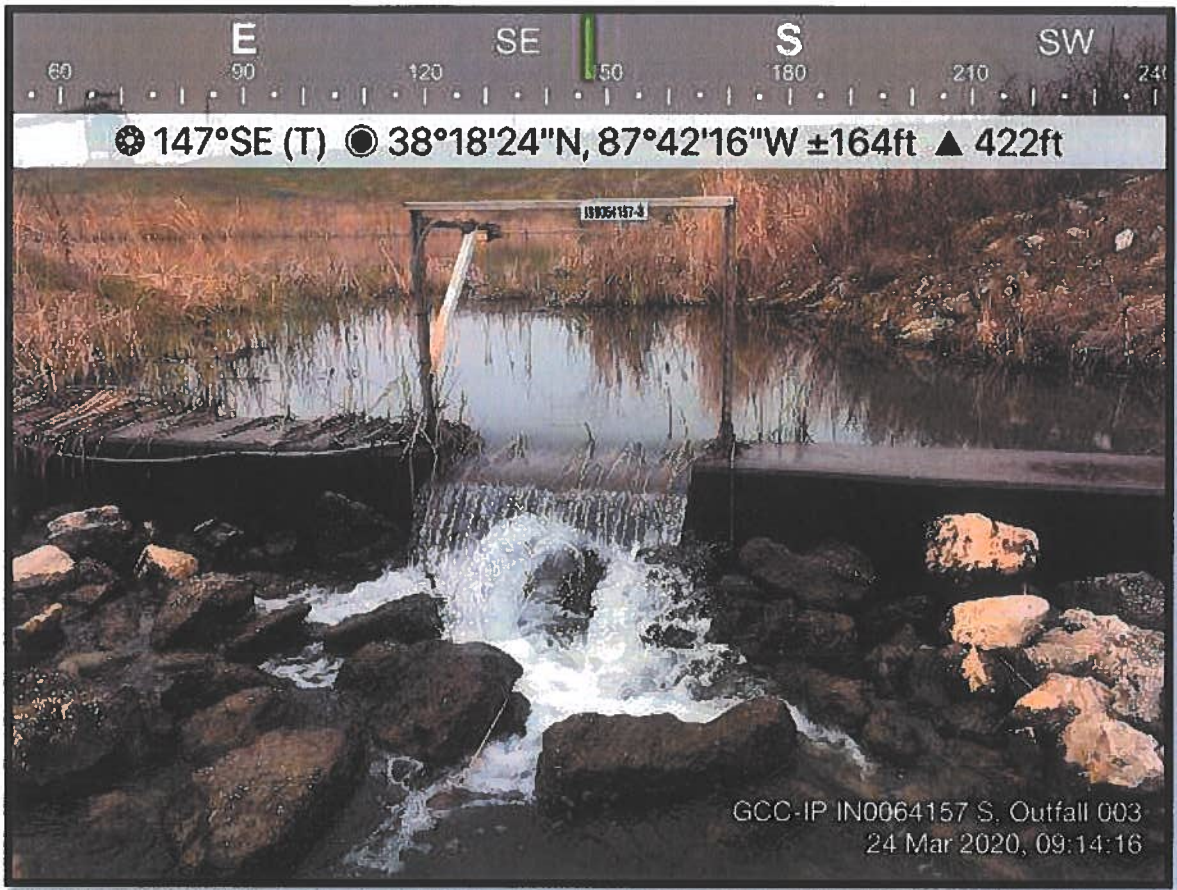
Notes:

Outfall 106 is only sampled when Outfall 006 has flow.

005 - Record DO reading on COC upon arrival and departure from site. Average of two readings is entered into LIMS.

Home Facility: Evansville

DO (7.17 @ 0905) and (7.06 @ 1011)







Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L0C1615

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513

Project / PO Number: N/A
Received: 03/31/2020
Reported: 04/06/2020

Project Special Information

SW

IN0064157

Analytical Testing Parameters

Table with 2 columns: Parameter and Value. Includes Client Sample ID (Outfalls 003D, 003A, 003B), Sample Matrix (Aqueous), Lab Sample ID (L0C1615-01), Collected By (Seth Backes), and Collection Date (03/31/2020 8:54).

Inorganics Total

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: USGS I-3765-85, Solids, Total Suspended, Result: 12, Limit: 35, RL: 5, Units: mg/L, Prepared: 04/01/20 1254, Analyzed: 04/01/20 1335, Analyst: RXG.

Metals Total by ICP

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Rows: Method: EPA 200.7, Rv. 4.4 (1994); Calcium (92, 0.50 mg/L); Iron (0.42, 2.4 mg/L); Magnesium (33, 0.50 mg/L).

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: SM 2340B, Hardness, Total as CaCO3, Result: 370, RL: 2.1 mg/L.

Anions by IC

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Rows: Method: EPA 300.0, Rv. 2.1 (1993); Chloride (590, 6.5 mg/L); Sulfate (88, 2.5 mg/L).

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: NA, Flow by Measurement & Calc., Result: 3.139, RL: 0 MGD.

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: SM 2550 B-2010, Temperature, Result: 14.3, Units: °C.

Table with 9 columns: Method, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row: Method: SM 4500-H+ B-2011, pH, Result: 7.90, Limit: 6.00-9.00, RL: 1.00, Units: S.U.

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., Louisville
CERTIFICATE OF ANALYSIS
 LOC1615

Client Sample ID: Outfalls 003D, 003A, 003B	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/31/2020 8:54
Lab Sample ID: LOC1615-01	

Inorganics Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM 2540 F-2011								
Solids, Settleable	<0.1	0.5	0.1	mL/L/hr			04/01/20 0900	KDS

Client Sample ID: Outfall 005	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/31/2020 8:54
Lab Sample ID: LOC1615-02	

Inorganics Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM 4500-NH3 G-2011								
Nitrogen, Ammonia	14	1.6	0.25	mg/L		03/31/20 1027	04/01/20 1501	AGR
Method: USGS I-3765-85								
Solids, Total Suspended	17	12	5	mg/L		04/01/20 1254	04/01/20 1335	RXG

Metals Total by ICP	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7, Rv. 4.4 (1994)								
Phosphorus, Total	0.22	1.0	0.10	mg/L		04/02/20 0933	04/03/20 1907	JSW

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: NA								
Flow by Measurement & Calc.	0.00068		0	MGD			03/31/20 0854	SHB
Method: SM 2550 B-2010								
Temperature	13.8			°C			03/31/20 0854	SHB
Method: SM 4500-H+ B-2011								
pH	8.11	6.00-9.00	1.00	S.U.			03/31/20 0854	SHB
Method: SM 4500-O G-2011								
Oxygen, Dissolved	6.08		0.10	mg/L			03/31/20 0854	SHB



Microbac Laboratories, Inc., Louisville
CERTIFICATE OF ANALYSIS
 LOC1615

Client Sample ID: Outfall 006	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/31/2020 9:19
Lab Sample ID: LOC1615-03	

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: NA								
Augmented Flow by Measurement & Calc.	No Flow		0	MGD			03/31/20 0919	SHB
Flow by Measurement & Calc.	No Flow		0	MGD			03/31/20 0919	SHB

Client Sample ID: Outfall 103	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/31/2020 8:41
Lab Sample ID: LOC1615-04	

Anions by IC	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 300.0, Rv. 2.1 (1993)								
Chloride	800		9.0	mg/L		04/01/20 2151	04/01/20 2151	JGF
Sulfate	51		2.5	mg/L		04/01/20 1907	04/01/20 1907	JGF

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: NA								
Augmented Flow by Measurement & Calc.	0.74		0	MGD			03/31/20 0841	SHB
Flow by Measurement & Calc.	3.243		0	MGD			03/31/20 0841	SHB

Client Sample ID: Outfall 106	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/31/2020 9:20
Lab Sample ID: LOC1615-05	

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: NA								
Flow by Measurement & Calc.	No Flow		0	MGD			03/31/20 0920	SHB

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L0C1615

Definitions

°C:	Degrees Celsius
mg/L:	Milligrams per Liter
MGD:	Millions Of Gallons per Day
RL:	Reporting Limit
S.U.:	Standard Units

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

James Taylor

Analyst

Reported: 04/06/2020 16:40

Microbac Laboratories, Inc.



Chain of Custody

Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



L0C1615

TAT 4 days

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/31/2020
Route: EVV - ARLP - GCC Pond - Weekly

Client Sample ID: Outfalls 003D, 003A, 003B

Lab Sample ID: L0C1615-01

Matrix: Aqueous

Sampled Date & Time: 3/31/20 / 0854

Type: Grab

Table with columns: Analysis, Method, Field Results/Comments, Hold Time, Container(s), Designator. Includes rows for FLOW BY MEASUREMENT & CALC., PH, FIELD, TEMPERATURE AT PH, etc.

Client Sample ID: Outfall 005

Lab Sample ID: L0C1615-02

Matrix: Aqueous

Sampled Date & Time: 3/31/20 / 0846

Type: Grab

Table with columns: Analysis, Method, Field Results/Comments, Hold Time. Includes rows for FLOW BY MEASUREMENT & CALC., OXYGEN, DISSOLVED - FIELD - EVV, etc.

Microbac Laboratories, Inc.



Chain of Custody

Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



L0C1615

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/31/2020
Route: EVV - ARLP - GCC Pond - Weekly

Table with 2 columns: Container(s) and Designator. Rows include A-1 LITER PLASTIC - GEN CHEM-4°C, B-250 ML PLASTIC-METALS-HNO3, and C-250 ML PLASTIC - H2SO4.

Client Sample ID: Outfall 006

Lab Sample ID: L0C1615-03

Matrix: Aqueous

Sampled Date & Time: 3/31/20 / 0919

Type: Grab

Main analysis table with columns: Analysis, Method, Field Results/Comments, Hold Time. Includes rows for FLOW BY MEASUREMENT & CALC., PH, FIELD, TEMPERATURE AT PH, etc.

Table with 2 columns: Container(s) and Designator. Rows include A-1 LITER PLASTIC - GEN CHEM-4°C, A-50 ML PLASTIC DIGITUBE-4°C, and B-250 ML PLASTIC-METALS-HNO3.

Client Sample ID: Outfall 103

Lab Sample ID: L0C1615-04

Matrix: Aqueous

Sampled Date & Time: 3/31/20 / 0841

Type: Grab

Main analysis table with columns: Analysis, Method, Field Results/Comments, Hold Time. Includes rows for FLOW BY MEASUREMENT & CALC., FLOW, AUGMENTED BY MEASUREMENT & CALC., etc.



Chain of Custody

Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



LOC1615

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/31/2020
Route: EVV - ARLP - GCC Pond - Weekly

Table with 4 columns: Analysis, Method, Container(s), Designator. Rows include CHLORIDE - 300.0, SULFATE - 300.0, EPA 300.0, A-50 ML PLASTIC DIGITUBE-4°C, 28.00 days, A.

Client Sample ID: Outfall 106

Lab Sample ID: LOC1615-05

Matrix: Aqueous
Type: Grab

Sampled Date & Time: 3/31/20 / 0920

Table with 4 columns: Analysis, Method, Field Results/Comments, Hold Time. Rows include FLOW BY MEASUREMENT & CALC. - MGD, SOLIDS, TOTAL SUSPENDED, IRON, TOTAL RECOVERABLE - ICP 200.7. Includes handwritten 'No flow' result.

Table with 3 columns: Relinquished by, Date/Time, Received by. Includes handwritten signatures and dates.

As Received at Laboratory: On Ice: (Yes) / No Temp 2.8 °C Total Containers: 13 8

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory.

Notes:
Outfall 106 is only sampled when Outfall 006 has flow.
005 - Record DO reading on COC upon arrival and departure from site. Average of two readings is entered into LIMS.
Home Facility: Evansville

DO (6.05 @ 0846) and (6.11 @ 0926)

