

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

RECEIVED

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

FEB 26 2015

NMOC
DISTRICT

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace	
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479	
Facility Name: Lobato Gas Com D 1	Facility Type: Natural gas well	
Surface Owner: Private	Mineral Owner: Private	API No. 3004513083

LOCATION OF RELEASE

Unit Letter D	Section 3	Township 29N	Range 9W	Feet from the 1,190	North/South Line North	Feet from the 790	East/West Line West	County: San Juan
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Latitude 36.75745 Longitude 107.77361

NATURE OF RELEASE

Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: unknown	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: May 2, 2012; 11:25 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* During operations to remove below grade tanks and associated piping contaminated soil was discovered. Initial investigation with test holes indicated impacts throughout the well area and groundwater at four feet deep.		
Describe Area Affected and Cleanup Action Taken.* Excavation was done to remove impacted soil. Approximately 17,400 cubic yards of impacted soil was taken to the IEI landfarm for treatment and soil remediation was completed on June 27, 2014. The excavated area was backfilled with clean soil. Groundwater investigation wells were installed in the middle of the excavated area and at the former locations of the below grade tanks. The wells were sampled in November 2014 and BTEX and sulfate were below standards in all three wells. Sampling results and a map showing the locations of the wells and the excavation area are attached.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Jeff Peace</i>	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Coordinator	Approval Date: 5/6/15	Expiration Date: <i>[Signature]</i>
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: February 26, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

#NCS 1512730205



Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1411973

Date Reported: 12/8/2014

CLIENT: Blagg Engineering

Client Sample ID: MW-95 BGT

Project: Lobato GC D1

Collection Date: 11/20/2014 10:09:00 AM

Lab ID: 1411973-002

Matrix: AQUEOUS

Received Date: 11/21/2014 7:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analyst: NSB			
Benzene	ND	1.0		µg/L	1	11/25/2014 10:29:20 PM	R22784
Toluene	ND	1.0		µg/L	1	11/25/2014 10:29:20 PM	R22784
Ethylbenzene	ND	1.0		µg/L	1	11/25/2014 10:29:20 PM	R22784
Xylenes, Total	ND	2.0		µg/L	1	11/25/2014 10:29:20 PM	R22784
Surr: 4-Bromofluorobenzene	102	66.6-167		%REC	1	11/25/2014 10:29:20 PM	R22784
EPA METHOD 300.0: ANIONS				Analyst: LGP			
Fluoride	0.74	0.50		mg/L	5	11/22/2014 4:13:26 AM	R22748
Chloride	20	2.5		mg/L	5	11/22/2014 4:13:26 AM	R22748
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/22/2014 4:13:26 AM	R22748
Bromide	ND	0.50		mg/L	5	11/22/2014 4:13:26 AM	R22748
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	11/22/2014 4:13:26 AM	R22748
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	11/22/2014 4:13:26 AM	R22748
Sulfate	150	2.5		mg/L	5	11/22/2014 4:13:26 AM	R22748
EPA METHOD 200.7: METALS				Analyst: JLF			
Calcium	90	1.0		mg/L	1	12/2/2014 4:15:11 PM	16623
Magnesium	14	1.0		mg/L	1	12/2/2014 4:15:11 PM	16623
Potassium	3.1	1.0		mg/L	1	12/2/2014 4:15:11 PM	16623
Sodium	110	10		mg/L	10	12/2/2014 4:16:20 PM	16623
SM2510B: SPECIFIC CONDUCTANCE				Analyst: JRR			
Conductivity	790	0.010		µmhos/cm	1	11/24/2014 4:42:34 PM	R22777
SM2320B: ALKALINITY				Analyst: JRR			
Bicarbonate (As CaCO ₃)	320	20		mg/L CaCO ₃	1	11/24/2014 4:42:34 PM	R22777
Carbonate (As CaCO ₃)	ND	2.0		mg/L CaCO ₃	1	11/24/2014 4:42:34 PM	R22777
Total Alkalinity (as CaCO ₃)	320	20		mg/L CaCO ₃	1	11/24/2014 4:42:34 PM	R22777
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analyst: KS			
Total Dissolved Solids	640	200	*	mg/L	1	11/25/2014 6:04:00 PM	16545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	MB-16623		SampType:	MBLK		TestCode:	EPA Method 200.7: Metals			
Client ID:	PBW		Batch ID:	16623		RunNo:	22883			
Prep Date:	12/2/2014		Analysis Date:	12/2/2014		SeqNo:	675682		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-16623		SampType:	LCS		TestCode:	EPA Method 200.7: Metals			
Client ID:	LCSW		Batch ID:	16623		RunNo:	22883			
Prep Date:	12/2/2014		Analysis Date:	12/2/2014		SeqNo:	675683		Units: mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	100	85	115			
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	49	1.0	50.00	0	97.1	85	115			
Sodium	50	1.0	50.00	0	99.8	85	115			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R22748	RunNo:	22748					
Prep Date:		Analysis Date:	11/21/2014	SeqNo:	671152	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P)	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R22748	RunNo:	22748					
Prep Date:		Analysis Date:	11/21/2014	SeqNo:	671153	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	0.50	0.10	0.5000	0	99.5	90	110			
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.0	90	110			
Bromide	2.4	0.10	2.500	0	97.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.5	90	110			
Phosphorus, Orthophosphate (As P)	4.8	0.50	5.000	0	96.4	90	110			
Sulfate	9.8	0.50	10.00	0	97.6	90	110			

Sample ID	1411973-001BMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	MW-1	Batch ID:	R22748	RunNo:	22748					
Prep Date:		Analysis Date:	11/22/2014	SeqNo:	671197	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	3.0	0.50	2.500	0.6185	96.0	66.1	113			
Chloride	62	2.5	25.00	36.43	101	81.8	112			
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	97.8	66.4	111			
Bromide	12	0.50	12.50	0.4210	96.2	82.5	103			
Nitrogen, Nitrate (As N)	13	0.50	12.50	0	100	84	109			
Phosphorus, Orthophosphate (As P)	24	2.5	25.00	0	95.8	69	109			

Sample ID	1411973-001BMDS	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	MW-1	Batch ID:	R22748	RunNo:	22748					
Prep Date:		Analysis Date:	11/22/2014	SeqNo:	671198	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Fluoride	3.0	0.50	2.500	0.6185	93.9	66.1	113	1.75	20	
Chloride	61	2.5	25.00	36.43	99.7	81.8	112	0.445	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	1411973-001BMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	MW-1		Batch ID:		R22748		RunNo:	22748			
Prep Date:				Analysis Date:	11/22/2014		SeqNo:	671198		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	97.5	66.4	111	0.369	20		
Bromide	13	0.50	12.50	0.4210	97.1	82.5	103	0.856	20		
Nitrogen, Nitrate (As N)	13	0.50	12.50	0	100	84	109	0.144	20		
Phosphorus, Orthophosphate (As P	24	2.5	25.00	0	95.7	69	109	0.0815	20		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R22784	RunNo:	22784					
Prep Date:		Analysis Date:	11/25/2014	SeqNo:	673058	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	22		20.00		108	66.6	167			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R22784	RunNo:	22784					
Prep Date:		Analysis Date:	11/25/2014	SeqNo:	673059	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.0	80	120			
Toluene	19	1.0	20.00	0	97.2	80	120			
Ethylbenzene	19	1.0	20.00	0	96.7	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		102	66.6	167			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	mb-1 rr	SampType:	MBLK		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW	Batch ID:	R22777		RunNo:	22777				
Prep Date:		Analysis Date:	11/24/2014		SeqNo:	672224		Units: mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	lcs-1 rr		SampType: LCS		TestCode: SM2320B: Alkalinity					
Client ID:	LCSW		Batch ID: R22777		RunNo: 22777					
Prep Date:			Analysis Date: 11/24/2014		SeqNo: 672225		Units: mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80	20	80.00	0	100	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	MB-16545	SampType:	MBLK		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	PBW	Batch ID:	16545		RunNo:	22797				
Prep Date:	11/24/2014	Analysis Date:	11/25/2014		SeqNo:	672718	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-16545	SampType: LCS			TestCode: SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID: 16545			RunNo: 22797					
Prep Date:	11/24/2014	Analysis Date: 11/25/2014			SeqNo: 672719		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1411973

RcptNo: 1

Received by/date:	AT	11/21/14
Logged By:	Celina Sessa	11/21/2014 7:18:00 AM
Completed By:	Celina Sessa	11/21/2014 4:40:26 PM
Reviewed By:	CS	11/21/14

Celina Sessa
Celina Sessa

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☒
9. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

METALS ANALYSIS: ADD 0.5 ML HNO_3 TO -001C, -002C, & -003C FOR ACCEPTABLE pH. Held in Log in

of preserved bottles checked for pH: 6
(<2 or >12 unless noted)
Adjusted? YES
Checked by: [Signature]

11/24/14
@ 1415

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Not Present			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>BLAGG ENGINEERING INC.</u>	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
<u>BP AMERICA</u>	Project Name:	
Mailing Address: <u>P.O. Box 87</u>	<u>LOBATO GC D1</u>	
<u>BLOOMFIELD, NM 87413</u>	Project #:	
Phone #: <u>505-320-1183</u>		
email or Fax#:	Project Manager:	
QA/QC Package:	<u>JEFF BLAGG</u>	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation	Sampler: <u>JEFF BLAGG</u>	
<input type="checkbox"/> NELAP	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Other _____	Sample Temperature: <u>11.7°</u>	
<input type="checkbox"/> EDD (Type) _____		

☒ Standard ☐ Rush

LOBATO GC D1

Project #:

Project Manager:

JEFF BLAGG

Sampler: JEFF BLABG

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.7

Container Type and #	Preservative Type
-------------------------	----------------------

HEAL No.

141197.3

100

002

—005

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

	X	X	X	BTEX + MTBE PCE TCE (8021)
				BTEX + MTBE + TPH (Gas only)
				TPH 8015B (GRO / DRO / MRO)
				TPH (Method 418.1)
				EDB (Method 504.1)
				PAH's (8310 or 8270 SIMS)
				RCRA 8 Metals
				Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)
				8081 Pesticides / 8082 PCB's
				8260B (VOA)
				8270 (Semi-VOA)
	X	X	X	CATIONS / ANIONS
				Air Bubbles (Y or N)

Date:	Time:	Relinquished by:
1/20/14	1255	PH Blevins

Received by: Christine Wact Date 11/26/14 Time 1255

Remarks:	BILL BLADE
----------	------------

Date: 11/20/14	Time: 1845	Relinquished by: [Signature]
-------------------	---------------	---------------------------------

Received by: Ami Khan Date 11/21/14 Time 0718

BP CONTACT: JEFF PEACE

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1411973

Date Reported: 12/8/2014

CLIENT: Blagg Engineering

Client Sample ID: MW-1

Project: Lobato GC D1

Collection Date: 11/20/2014 9:28:00 AM

Lab ID: 1411973-001

Matrix: AQUEOUS

Received Date: 11/21/2014 7:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	11/25/2014 10:01:58 PM	R22784
Toluene	ND	1.0		µg/L	1	11/25/2014 10:01:58 PM	R22784
Ethylbenzene	ND	1.0		µg/L	1	11/25/2014 10:01:58 PM	R22784
Xylenes, Total	2.1	2.0		µg/L	1	11/25/2014 10:01:58 PM	R22784
Surr: 4-Bromofluorobenzene	105	66.6-167		%REC	1	11/25/2014 10:01:58 PM	R22784
EPA METHOD 300.0: ANIONS							Analyst: LGP
Fluoride	0.62	0.50		mg/L	5	11/22/2014 3:23:48 AM	R22748
Chloride	36	2.5		mg/L	5	11/22/2014 3:23:48 AM	R22748
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/22/2014 3:23:48 AM	R22748
Bromide	ND	0.50		mg/L	5	11/22/2014 3:23:48 AM	R22748
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	11/22/2014 3:23:48 AM	R22748
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	11/22/2014 3:23:48 AM	R22748
Sulfate	450	10		mg/L	20	11/22/2014 4:01:02 AM	R22748
EPA METHOD 200.7: METALS							Analyst: JLF
Calcium	190	10		mg/L	10	12/2/2014 4:14:06 PM	16623
Magnesium	25	1.0		mg/L	1	12/2/2014 4:12:55 PM	16623
Potassium	6.5	1.0		mg/L	1	12/2/2014 4:12:55 PM	16623
Sodium	170	10		mg/L	10	12/2/2014 4:14:06 PM	16623
SM2510B: SPECIFIC CONDUCTANCE							Analyst: JRR
Conductivity	1300	0.010		µmhos/cm	1	11/24/2014 4:25:57 PM	R22777
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO ₃)	380	20		mg/L CaCO ₃	1	11/24/2014 4:25:57 PM	R22777
Carbonate (As CaCO ₃)	ND	2.0		mg/L CaCO ₃	1	11/24/2014 4:25:57 PM	R22777
Total Alkalinity (as CaCO ₃)	380	20		mg/L CaCO ₃	1	11/24/2014 4:25:57 PM	R22777
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1090	200	*	mg/L	1	11/25/2014 6:04:00 PM	16545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1411973

Date Reported: 12/8/2014

CLIENT: Blagg Engineering

Client Sample ID: MW-21 BGT

Project: Lobato GC D1

Collection Date: 11/20/2014 11:05:00 AM

Lab ID: 1411973-003

Matrix: AQUEOUS

Received Date: 11/21/2014 7:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.0		µg/L	1	11/25/2014 10:56:39 PM	R22784
Toluene	ND	1.0		µg/L	1	11/25/2014 10:56:39 PM	R22784
Ethylbenzene	ND	1.0		µg/L	1	11/25/2014 10:56:39 PM	R22784
Xylenes, Total	4.0	2.0		µg/L	1	11/25/2014 10:56:39 PM	R22784
Surr: 4-Bromofluorobenzene	146	66.6-167		%REC	1	11/25/2014 10:56:39 PM	R22784
EPA METHOD 300.0: ANIONS							Analyst: LGP
Fluoride	0.63	0.50		mg/L	5	11/22/2014 4:38:14 AM	R22748
Chloride	43	2.5		mg/L	5	11/22/2014 4:38:14 AM	R22748
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	11/22/2014 4:38:14 AM	R22748
Bromide	ND	0.50		mg/L	5	11/22/2014 4:38:14 AM	R22748
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	11/22/2014 4:38:14 AM	R22748
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	11/22/2014 4:38:14 AM	R22748
Sulfate	430	10		mg/L	20	11/22/2014 4:50:39 AM	R22748
EPA METHOD 200.7: METALS							Analyst: JLF
Calcium	180	10		mg/L	10	12/2/2014 4:18:48 PM	16623
Magnesium	19	1.0		mg/L	1	12/2/2014 4:17:34 PM	16623
Potassium	3.9	1.0		mg/L	1	12/2/2014 4:17:34 PM	16623
Sodium	170	10		mg/L	10	12/2/2014 4:18:48 PM	16623
SM2510B: SPECIFIC CONDUCTANCE							Analyst: JRR
Conductivity	1200	0.010		µmhos/cm	1	11/24/2014 4:58:06 PM	R22777
SM2320B: ALKALINITY							Analyst: JRR
Bicarbonate (As CaCO ₃)	350	20		mg/L CaCO ₃	1	11/24/2014 4:58:06 PM	R22777
Carbonate (As CaCO ₃)	ND	2.0		mg/L CaCO ₃	1	11/24/2014 4:58:06 PM	R22777
Total Alkalinity (as CaCO ₃)	350	20		mg/L CaCO ₃	1	11/24/2014 4:58:06 PM	R22777
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1050	200	*	mg/L	1	11/25/2014 6:04:00 PM	16545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	MB-16623	SampType:	MBLK	TestCode:	EPA Method 200.7: Metals					
Client ID:	PBW	Batch ID:	16623	RunNo:	22883					
Prep Date:	12/2/2014	Analysis Date:	12/2/2014	SeqNo:	675682	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID	LCS-16623	SampType: LCS			TestCode: EPA Method 200.7: Metals					
Client ID:	LCSW	Batch ID: 16623			RunNo: 22883					
Prep Date:	12/2/2014	Analysis Date: 12/2/2014			SeqNo: 675683		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50	1.0	50.00	0	100	85	115			
Magnesium	51	1.0	50.00	0	102	85	115			
Potassium	49	1.0	50.00	0	97.1	85	115			
Sodium	50	1.0	50.00	0	99.8	85	115			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R22748			RunNo: 22748					
Prep Date:		Analysis Date: 11/21/2014			SeqNo: 671152		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Bromide	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	ND	0.50								

Sample ID	LCS		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW		Batch ID: R22748		RunNo: 22748					
Prep Date:			Analysis Date: 11/21/2014		SeqNo: 671153		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.5	90	110			
Chloride	4.7	0.50	5.000	0	94.4	90	110			
Nitrogen, Nitrite (As N)	0.98	0.10	1.000	0	98.0	90	110			
Bromide	2.4	0.10	2.500	0	97.2	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.5	90	110			
Phosphorus, Orthophosphate (As P	4.8	0.50	5.000	0	96.4	90	110			
Sulfate	9.8	0.50	10.00	0	97.6	90	110			

Sample ID	1411973-001BMS			SampType:	MS		TestCode:	EPA Method 300.0: Anions			
Client ID:	MW-1			Batch ID:	R22748		RunNo:	22748			
Prep Date:				Analysis Date:	11/22/2014		SeqNo:	671197		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	3.0	0.50	2.500	0.6185	96.0	66.1	113				
Chloride	62	2.5	25.00	36.43	101	81.8	112				
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	97.8	66.4	111				
Bromide	12	0.50	12.50	0.4210	96.2	82.5	103				
Nitrogen, Nitrate (As N)	13	0.50	12.50	0	100	84	109				
Phosphorus, Orthophosphate (As P)	24	2.5	25.00	0	95.8	69	109				

Sample ID	1411973-001BMSD		SampType: MSD		TestCode: EPA Method 300.0: Anions					
Client ID:	MW-1		Batch ID: R22748		RunNo: 22748					
Prep Date:			Analysis Date: 11/22/2014		SeqNo: 671198		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3.0	0.50	2.500	0.6185	93.9	66.1	113	1.75	20	
Chloride	61	2.5	25.00	36.43	99.7	81.8	112	0.445	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	1411973-001BMSD	SampType:	MSD		TestCode:	EPA Method 300.0: Anions				
Client ID:	MW-1	Batch ID:	R22748		RunNo:	22748				
Prep Date:		Analysis Date:	11/22/2014		SeqNo:	671198	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	4.9	0.50	5.000	0	97.5	66.4	111	0.369	20	
Bromide	13	0.50	12.50	0.4210	97.1	82.5	103	0.856	20	
Nitrogen, Nitrate (As N)	13	0.50	12.50	0	100	84	109	0.144	20	
Phosphorus, Orthophosphate (As P	24	2.5	25.00	0	95.7	69	109	0.0815	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R22784	RunNo:	22784					
Prep Date:		Analysis Date:	11/25/2014	SeqNo:	673058	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	22		20.00		108	66.6	167			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R22784	RunNo:	22784					
Prep Date:		Analysis Date:	11/25/2014	SeqNo:	673059	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	95.0	80	120			
Toluene	19	1.0	20.00	0	97.2	80	120			
Ethylbenzene	19	1.0	20.00	0	96.7	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		102	66.6	167			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	mb-1 rr	SampType:	MBLK		TestCode:	SM2320B: Alkalinity				
Client ID:	PBW	Batch ID:	R22777		RunNo:	22777				
Prep Date:		Analysis Date:	11/24/2014		SeqNo:	672224	Units:	mg/L CaCO3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	ND	20								

Sample ID	lcs-1 rr		SampType: LCS		TestCode: SM2320B: Alkalinity					
Client ID:	LCSW		Batch ID: R22777		RunNo: 22777					
Prep Date:			Analysis Date: 11/24/2014		SeqNo: 672225		Units: mg/L CaCO3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Alkalinity (as CaCO3)	80	20	80.00	0	100	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411973

08-Dec-14

Client: Blagg Engineering

Project: Lobato GC D1

Sample ID	MB-16545	SampType: MBLK		TestCode: SM2540C MOD: Total Dissolved Solids						
Client ID:	PBW	Batch ID: 16545		RunNo: 22797						
Prep Date:	11/24/2014	Analysis Date: 11/25/2014		SeqNo: 672718		Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-16545	SampType: LCS			TestCode: SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID: 16545			RunNo: 22797					
Prep Date:	11/24/2014	Analysis Date: 11/25/2014			SeqNo: 672719		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1411973

RcptNo: 1

Received by/date:

AT

11/21/14

Logged By: Celina Sessa

11/21/2014 7:18:00 AM

Celina Sessa

Completed By: Celina Sessa

11/21/2014 4:40:26 PM

Celina Sessa

Reviewed By:

CS

11/21/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Client ☐

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☒
9. Was preservative added to bottles? Yes ☒ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☒ No ☐ No VOA Vials ☐
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

METALS ANALYSIS: ADD 0.5ML HNO_3 TO -001, -002, & -003 FOR ACCEPTABLE pH. Held in Log in

of preserved bottles checked for pH:

6

Adjusted? ☒ (2 or >12 unless noted)

Checked by:

AT

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Not Present			

Client: BLAGG ENGINEERING INC.
BP AMERICA
Mailing Address: P.O. Box 87
Bloomfield, NM 87413
Phone #: 505-320-1183
email or Fax#: _____
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

☒ Standard ☐ Rush

LOBATO GC D1

Project Manager:

JEFF BLAGG

Sampler: JEFF BLAKE

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.7

[illegible]

Date:	Time:	Relinquished by:
1/20/14	1255	HH Black

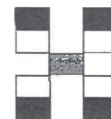
Received by:	Date	Time
Christine Wael	11/26/14	1255

Remarks:	BILL BLA66
----------	------------

Date:	Time:	Requisitioned by:
11/20/14	1845	[Signature]

Received by:	Date	Time
<i>[Signature]</i>	11/21/14	0718

BP CONTACT: JEFF PEACE



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

	X	X	BTEX + MTBE + THMs (8021)
			BTEX + MTBE + TPH (Gas only)
			TPH 8015B (GRO / DRO / MRO)
			TPH (Method 418.1)
			EDB (Method 504.1)
			PAH's (8310 or 8270 SIMS)
			RCRA 8 Metals
			Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)
			8081 Pesticides / 8082 PCB's
			8260B (VOA)
			8270 (Semi-VOA)
	X	X	CATIONS / Anions
			Air Bubbles (Y or N)