

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

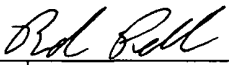
Name of Company BP America Production Co	Contact Courtney Cochran	
Address 200 Energy Ct Farmington, NM 87401	Telephone No : 505-326-9457	
Facility Name: State GC K 1N	Facility Type: natural gas well API # 3004533076	
Surface Owner fee	Mineral Owner fee	Lease No. n/a

LOCATION OF RELEASE

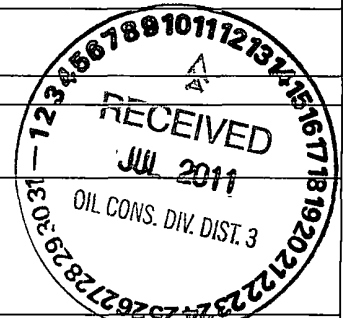
Unit Letter M	Section 16	Township 31N	Range 11W	Feet from the 1300	North/South Line South	Feet from the 875	East/West Line West	County San Juan
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Latitude 36.89509 Longitude 108 00186

NATURE OF RELEASE

Type of Release produced water	Volume of Release approx 22 bbls	Volume Recovered none
Source of Release BGT	Date and Hour of Occurrence unknown	Date and Hour of Discovery 6/2/2011
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse	
If a Watercourse was Impacted, Describe Fully *		
Describe Cause of Problem and Remedial Action Taken * 95 bbl double wall/double bottom BGT was being replaced due to integrity issues Fluid was found in the inspection port During removal an obvious release was observed Impacts were excavated with a backhoe		
Describe Area Affected and Cleanup Action Taken * A total of 187 cubic yards of soil was removed Final laboratory results 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 	OIL CONSERVATION DIVISION	
Printed Name Courtney Cochran	Approved by District Supervisor 	
Title Environmental Challenger	Approval Date 7-11-11	Expiration Date
E-mail Address Courtney.Cochran@bp.com	Conditions of Approval.	Attached ☐
Date 07/07/2011 Phone 505-326-9457	nJK 1122340707	

* Attach Additional Sheets If Necessary



14

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: <u>30-045-33076</u> TANK ID (if applicable): <u>A</u>
FIELD REPORT: (circle one): BGT CONFIRMATION <u>RELEASE INVESTIGATION</u> / OTHER:		PAGE #: <u>1</u> of <u> </u>
SITE INFORMATION: SITE NAME <u>STATE GC K #1N</u> QUAD/UNIT: <u>M SEC: 16 TWP: 31N RNG: 11W PM: NM CNTY: SJ ST: NM</u> 1/4 - 1/4 FOOTAGE: LEASE TYPE: <u>FEDERAL / STATE / FEE / INDIAN</u> LEASE #: <u>STATE</u> PROD. FORMATION: <u>CONTRACTOR: ELKHORN</u>		DATE STARTED: <u>6-2-2011</u> DATE FINISHED: <u> </u> ENVIRONMENTAL SPECIALIST(S): <u>JCB</u>
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: <u>36.89509 x 108.00186</u> GL ELEV.: <u> </u> 1) <u>95 BGT</u> GPS COORD.: <u>36.895268 x 108.001646</u> DISTANCE/BEARING FROM W.H.: <u>87' N46E</u> 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:		
LAB INFORMATION: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <u> </u> 1) SAMPLE ID: <u>S-Pt @ -5'</u> SAMPLE DATE: <u>6-2-11</u> SAMPLE TIME: <u>1710</u> LAB ANALYSIS: <u>TPH/BTEX/CL</u> OVM READING (ppm): <u>275</u> 2) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:		
SOIL DESCRIPTION: SOIL TYPE: <u>SAND (SILTY SAND)</u> SILT / SILTY CLAY / CLAY / GRAVEL / OTHER SOIL COLOR: <u> </u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE / FIRM</u> / DENSE / VERY DENSE MOISTURE: <u>DRY (SLIGHTLY MOIST)</u> / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: <u>GRAB (COMPOSITE)</u> # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION - <u> </u> PLASTICITY (CLAYS): <u>NON PLASTIC</u> / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): <u>SOFT</u> / FIRM / STIFF / VERY STIFF / HARD HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>MODERATE</u> ANY AREAS DISPLAYING WETNESS: YES / <u>NO</u> EXPLANATION - <u> </u> ADDITIONAL COMMENTS: <u>REPLACE 95 DW/DB DUE TO Integrity (FLUID IN INSPECTION PORT)</u>		
EXCAVATION DIMENSIONS (if applicable): <u> </u> ft. X <u> </u> ft. X <u> </u> ft. cubic yards excavated (if applicable): <u> </u> DEPTH TO GROUNDWATER: <u>>50'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>200'</u> NMOC DTPH CLOSURE STD: <u>100</u> PPM		
SITE SKETCH		PLOT PLAN circle: <u>attached</u> OVM CALIB. READ. = <u>53.1</u> ppm RF = <u>0.52</u> OVM CALIB. GAS = <u>100</u> ppm TIME: <u>1605</u> am/pm DATE: <u>6/2/11</u>
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX; T.B. = TANK BOTTOM; PBGT = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM		MISCELL. NOTES <u>N1350204</u> <u>PO 43732</u> <u>8ANDECALSL</u> <u>C-ANDERSON</u> BGT Sidewalls Visible: <u>Y</u> (N) NA Magnetic declination: <u>10</u> ° E
TRAVEL NOTES: CALLOUT: <u> </u> ONSITE: <u>6-2-2011</u>		

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: <u>30-045-33076</u> TANK ID (if applicable): <u>A</u>																									
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / <u>OTHER:</u> <u>RELEASE REMEDIATION VIA EXCAVATE</u>		PAGE #: <u>2</u> of <u>2</u>																									
SITE INFORMATION: SITE NAME: <u>STATE GC K IN</u> QUAD/UNIT: <u>M SEC: 16 TWP: 31N RNG: 11W PM: NM CNTY: SJ ST: NM</u> 1/4 - 1/4 FOOTAGE: LEASE TYPE: <u>FEDERAL / STATE / <u>FEE</u> / INDIAN</u> LEASE #: <u>STATE</u> PROD. FORMATION: CONTRACTOR: <u>ELEHORN</u>		DATE STARTED: <u>6-22-11</u> DATE FINISHED: <u>6-22-11</u> ENVIRONMENTAL SPECIALIST(S): <u>JCB</u>																									
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: <u>36.895094 108.00126</u> GL ELEV.: 1) <u>EXCAVATION CENTER</u> GPS COORD.: <u>36.895268 108.001646</u> DISTANCE/BEARING FROM W.H. <u>87' N46E</u> 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:																											
LAB INFORMATION: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <u>HALL</u> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DATE</th> <th>SAMPLE TIME</th> <th>LAB ANALYSIS</th> <th>OVM READING (ppm)</th> </tr> </thead> <tbody> <tr> <td>1) <u>N well 5-Point</u></td> <td><u>6/22/11</u></td> <td><u>1011</u></td> <td><u>TPH/TEX/CL</u></td> <td><u>1.8</u></td> </tr> <tr> <td>2) <u>W well 5-Point</u></td> <td><u>"</u></td> <td><u>1103</u></td> <td><u>"</u></td> <td><u>0.0</u></td> </tr> <tr> <td>3) <u>S well 5-Point</u></td> <td><u>"</u></td> <td><u>1605</u></td> <td><u>"</u></td> <td><u>6.4</u></td> </tr> <tr> <td>4) <u>E well 5-Point</u></td> <td><u>"</u></td> <td><u>1620</u></td> <td><u>"</u></td> <td><u>3.7</u></td> </tr> </tbody> </table>			SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)	1) <u>N well 5-Point</u>	<u>6/22/11</u>	<u>1011</u>	<u>TPH/TEX/CL</u>	<u>1.8</u>	2) <u>W well 5-Point</u>	<u>"</u>	<u>1103</u>	<u>"</u>	<u>0.0</u>	3) <u>S well 5-Point</u>	<u>"</u>	<u>1605</u>	<u>"</u>	<u>6.4</u>	4) <u>E well 5-Point</u>	<u>"</u>	<u>1620</u>	<u>"</u>	<u>3.7</u>
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SOIL DESCRIPTION: SOIL TYPE: <u>SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL</u> <u>OTHER: <u>BRACK @ 11'</u></u> SOIL COLOR: COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE MOISTURE: <u>DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED</u> SAMPLE TYPE: <u>GRAB / <u>COMPOSITE</u></u> # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: YES <u>(NO)</u> EXPLANATION - ANY AREAS DISPLAYING WETNESS: YES <u>(NO)</u> EXPLANATION - ADDITIONAL COMMENTS:																											
EXCAVATION DIMENSIONS (if applicable): <u>29</u> ft. X <u>29</u> ft. X <u>11±</u> ft. cubic yards excavated (if applicable): <u>340±</u> DEPTH TO GROUNDWATER: <u>> 50'</u> NEAREST WATER SOURCE: <u>> 1000'</u> NEAREST SURFACE WATER: <u>> 200'</u> NMOC DTPH CLOSURE STD. <u>100</u> PPM																											
SITE SKETCH 		PLOT PLAN circle: <u>attached</u> OVM CALIB. READ = <u>54.0</u> ppm RF = <u>0.52</u> OVM CALIB. GAS = <u>100</u> ppm TIME: <u>1040 am</u> DATE: <u>6-22-11</u>																									
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; -- = APPROX.; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.		MISCELL. NOTES <u>EXCAVATE</u> <u>WITH</u> <u>EXTENSIVE</u> <u>N 1895390</u> <u>PC 49322</u> <u>SP EXCAVATION</u> BGT Sidewalls Visible: Y / N <u>NA</u> Magnetic declination: <u>10</u> ° E																									
TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>6/22/11</u>																											

Hall Environmental Analysis Laboratory, Inc.

Date: 14-Jun-11

Analytical Report

CLIENT: Blagg Engineering
Lab Order: 1106231
Project: State GC K #1N
Lab ID: 1106231-01

Client Sample ID: 95 BGT 5-pt@-5'
Collection Date: 6/2/2011 5:10:00 PM
Date Received: 6/7/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	240	9.6		mg/Kg	1	6/9/2011 12:22:15 PM
Surr: DNOP	101	73.4-123		%REC	1	6/9/2011 12:22:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	64	50		mg/Kg	10	6/10/2011 4:47:23 PM
Surr: BFB	168	89.7-125	S	%REC	10	6/10/2011 4:47:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.50		mg/Kg	10	6/10/2011 4:47:23 PM
Toluene	ND	0.50		mg/Kg	10	6/10/2011 4:47:23 PM
Ethylbenzene	ND	0.50		mg/Kg	10	6/10/2011 4:47:23 PM
Xylenes, Total	ND	1.0		mg/Kg	10	6/10/2011 4:47:23 PM
Surr: 4-Bromofluorobenzene	109	85.3-139		%REC	10	6/10/2011 4:47:23 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	32	1.5		mg/Kg	1	6/13/2011 5:23:43 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: State GC K #1N

Work Order: 1106231

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-27170		MBLK									
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-27170		LCS									
Chloride	14.41	mg/Kg	1.5	15	0	96.1	90	110			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-27119		MBLK									
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-27119		LCS									
Diesel Range Organics (DRO)	49.89	mg/Kg	10	50	0	99.8	66.7	119			
Sample ID: LCSD-27119		LCSD									
Diesel Range Organics (DRO)	50.76	mg/Kg	10	50	0	102	66.7	119	1.74	18.9	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-27117		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-27117		LCS									
Gasoline Range Organics (GRO)	25.79	mg/Kg	5.0	25	0	103	88.8	124			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-27117		MBLK									
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-27117		LCS									
Benzene	1.000	mg/Kg	0.050	1	0.0172	98.3	83.3	107			
Toluene	1.010	mg/Kg	0.050	1	0.0129	99.7	74.3	115			
Ethylbenzene	1.014	mg/Kg	0.050	1	0.0130	100	80.9	122			
Xylenes, Total	3.091	mg/Kg	0.10	3	0.0391	102	85.2	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

COVER LETTER

Wednesday, July 06, 2011

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413

TEL: (505) 632-1199

FAX (505) 632-3903

RE: State GC K #1N

Order No.: 1106A48

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 6/24/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109

505.345.3975 ■ Fax 505.345.4107

www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Jul-11

Analytical Report

CLIENT:	Blagg Engineering	Client Sample ID:	Base @ 13'
Lab Order:	1106A48	Collection Date:	6/22/2011 10:11:00 AM
Project:	State GC K #1N	Date Received:	6/24/2011
Lab ID:	1106A48-01	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2011 3:59:34 AM
Surr: DNOP	94.0	73.4-123		%REC	1	6/28/2011 3:59:34 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/28/2011 12:11:26 AM
Surr. BFB	90.0	75.2-136		%REC	1	6/28/2011 12:11:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	6/28/2011 12:11:26 AM
Toluene	ND	0.050		mg/Kg	1	6/28/2011 12:11:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/28/2011 12:11:26 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/28/2011 12:11:26 AM
Surr: 4-Bromofluorobenzene	97.1	92-130		%REC	1	6/28/2011 12:11:26 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	27	1.5		mg/Kg	1	6/28/2011 10:19:28 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Jul-11

Analytical Report

CLIENT: Blagg Engineering
Lab Order: 1106A48
Project: State GC K #1N
Lab ID: 1106A48-02

Client Sample ID: North Sidewall
Collection Date: 6/22/2011 10:35:00 AM
Date Received: 6/24/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/28/2011 4:33:41 AM
Surr: DNOP	97.1	73.4-123		%REC	1	6/28/2011 4:33:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/28/2011 12:41:32 AM
Surr: BFB	86.1	75.2-136		%REC	1	6/28/2011 12:41:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	6/28/2011 12:41:32 AM
Toluene	ND	0.050		mg/Kg	1	6/28/2011 12:41:32 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/28/2011 12:41:32 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/28/2011 12:41:32 AM
Surr: 4-Bromofluorobenzene	93.9	92-130		%REC	1	6/28/2011 12:41:32 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	7.4	1.5		mg/Kg	1	6/28/2011 11:46:32 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Jul-11

Analytical Report

CLIENT: Blagg Engineering
Lab Order: 1106A48
Project: State GC K #1N
Lab ID: 1106A48-03

Client Sample ID: West Sidewall
Collection Date: 6/22/2011 11:03:00 AM
Date Received: 6/24/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2011 5:07:45 AM
Surr: DNOP	95.5	73.4-123		%REC	1	6/28/2011 5:07:45 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/28/2011 1:11:39 AM
Surr: BFB	92.5	75.2-136		%REC	1	6/28/2011 1:11:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	6/28/2011 1:11:39 AM
Toluene	ND	0.050		mg/Kg	1	6/28/2011 1:11:39 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/28/2011 1:11:39 AM
Xylenes, Total	ND	0.099		mg/Kg	1	6/28/2011 1:11:39 AM
Surr 4-Bromofluorobenzene	101	92-130		%REC	1	6/28/2011 1:11:39 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	17	1.5		mg/Kg	1	6/28/2011 12:38:46 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Jul-11

Analytical Report**CLIENT:** Blagg Engineering**Client Sample ID:** South Sidewall**Lab Order:** 1106A48**Collection Date:** 6/22/2011 4:05:00 PM**Project:** State GC K #1N**Date Received:** 6/24/2011**Lab ID:** 1106A48-04**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/28/2011 5:41:53 AM
Surr: DNOP	96.1	73.4-123		%REC	1	6/28/2011 5:41:53 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: DAM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/28/2011 1:41:45 AM
Surr: BFB	94.9	75.2-136		%REC	1	6/28/2011 1:41:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	0.050		mg/Kg	1	6/28/2011 1:41:45 AM
Toluene	ND	0.050		mg/Kg	1	6/28/2011 1:41:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/28/2011 1:41:45 AM
Xylenes, Total	ND	0.099		mg/Kg	1	6/28/2011 1:41:45 AM
Surr: 4-Bromofluorobenzene	104	92-130		%REC	1	6/28/2011 1:41:45 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	20	1.5		mg/Kg	1	6/28/2011 1:13:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Jul-11

Analytical Report

CLIENT: Blagg Engineering

Client Sample ID: East Sidewall

Lab Order: 1106A48

Collection Date: 6/22/2011 4:20:00 PM

Project: State GC K #1N

Date Received: 6/24/2011

Lab ID: 1106A48-05

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/28/2011 6:15:57 AM
Surr: DNOP	90.8	73.4-123		%REC	1	6/28/2011 6:15:57 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/28/2011 9:13:39 PM
Surr: BFB	95.7	75.2-136		%REC	1	6/28/2011 9:13:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	6/28/2011 9:13:39 PM
Toluene	ND	0.049		mg/Kg	1	6/28/2011 9:13:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/28/2011 9:13:39 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/28/2011 9:13:39 PM
Surr. 4-Bromofluorobenzene	103	92-130		%REC	1	6/28/2011 9:13:39 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	73	30		mg/Kg	20	6/28/2011 2:05:49 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 5 of 5

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: State GC K #1N

Work Order: 1106A48

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1106A48-02AMSD		MSD				Batch ID: 27363	Analysis Date: 6/28/2011 12:21:22 PM				
Chloride	19.93	mg/Kg	1.5	15	7.41	83.5	79.6	112	1.31	20	
Sample ID: MB-27363		MBLK				Batch ID: 27363	Analysis Date: 6/28/2011 1 19:42 AM				
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-27363		LCS				Batch ID: 27363	Analysis Date: 6/28/2011 1:37 07 AM				
Chloride	14.46	mg/Kg	1.5	15	0	96.4	90	110			
Sample ID: 1106A48-02AMS		MS				Batch ID: 27363	Analysis Date: 6/28/2011 12:03:57 PM				
Chloride	20.20	mg/Kg	1.5	15	7.41	85.2	79.6	112			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-27358		MBLK				Batch ID: 27358	Analysis Date: 6/27/2011 6:09:10 PM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-27358		LCS				Batch ID: 27358	Analysis Date: 6/27/2011 6:44:49 PM				
Diesel Range Organics (DRO)	51.35	mg/Kg	10	50	0	103	66.7	119			
Sample ID: LCSD-27358		LCSD				Batch ID: 27358	Analysis Date: 6/27/2011 7:20 16 PM				
Diesel Range Organics (DRO)	50.03	mg/Kg	10	50	0	100	66.7	119	2.59	18.9	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-27355		MBLK				Batch ID: 27355	Analysis Date: 6/28/2011 5 42:28 AM				
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-27355		LCS				Batch ID: 27355	Analysis Date: 6/28/2011 5 12 19 AM				
Gasoline Range Organics (GRO)	28.30	mg/Kg	5.0	25	2.06	105	88.8	124			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-27355		MBLK				Batch ID: 27355	Analysis Date: 6/28/2011 5 42:28 AM				
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-27355		LCS				Batch ID: 27355	Analysis Date: 6/28/2011 4:42:16 AM				
Benzene	1.053	mg/Kg	0.050	1	0.0053	105	83.3	107			
Toluene	0.9539	mg/Kg	0.050	1	0.007	94.7	74.3	115			
Ethylbenzene	1.006	mg/Kg	0.050	1	0.0049	100	80.9	122			
Xylenes, Total	3.244	mg/Kg	0.10	3	0	108	85.2	123			

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

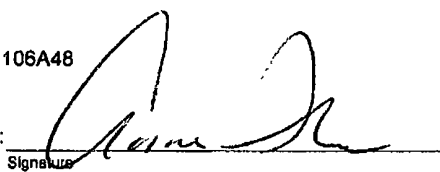
Date Received:

6/24/2011

Work Order Number **1106A48**

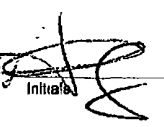
Received by: **LNM**

Checklist completed by:



Sample ID labels checked by:

06/24/11


Initials

Matrix:

Carrier name: **Greyhound**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

3.8°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record		Turn-Around Time:
Client: <u>BLAGG ENGINEERING INC.</u>	☒ Standard	☐ Rush
<u>BP AMERICA</u>	Project Name:	
Mailing Address: <u>P.O. Box 87</u>	<u>STATE GC K # 1N</u>	
<u>BLOOMFIELD, NM 87413</u>	Project #:	
Phone #: <u>(505) 632-1199</u>	Project Manager:	
email or Fax#:	<u>J. BLAGG</u>	
QA/QC Package:		
☒ Standard	☐ Level 4 (Full Validation)	
Accreditation	Sampler: <u>J. BLAGG</u>	
☐ NELAP	☐ Other _____	
☐ EDD (Type) _____	On-site: ☒ Yes ☐ No	
	Sample Temperature: <u>33</u>	

☒ **Standard** ☐ **Rush**

STATE GC K # 1N

Project Manager:

J. BLAGG

Sampler: J. Blag

~~Once Upon A Time~~

Sample Temperature

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Received by:	Date	Time

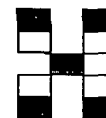
When to leave 6/23/11 1103

Received by: 1 Date: 7/1 Time: 11:00

Date 11/11/03 Time 11:00

Pharmacist Name: John M. Kelly

contracted to other accredited laboratories. This serves as notice of the



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date: 6/23/11	Time: 1103	Relinquished by: Jill Bugg	Received by: Christine Walters	Date: 6/23/11	Time: 1103
Date: 6/23/11	Time: 1142	Relinquished by: Ch + Walt	Received by: [Signature]	Date: 6/24/11	Time: 1100

Remarks: GRO + DRO ON 805B
WORK ORDER: N 1395390
PARKER: ZPEACTJDBNV

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.