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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 380 Airport Rd., Durango, CO 81303	Telephone No.: 505-330-9179
Facility Name: Nye LS 001A	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004523047

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
O	23	31N	11W	1,800	South	1,590	East	

Latitude 36.87987° **Longitude** -107.95668°

NATURE OF RELEASE

Type of Release: Condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: Unknown – Holes in the bottom of tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 5/21/2012; 11:00AM
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.* The existing condensate tank was inspected for shell integrity and was found to be below the desired wall thickness. When the tank was removed for further inspection evidence of possible condensate leaks below the tank were found. Blagg Engineering too samples below the surface which resulted in GRO TPH of 3500. Excavation of impacted soils was performed, with minimal impacts determined. Additional delineation was conducted via trenching with no further impacts determined. The tank was replaced.

Describe Area Affected and Cleanup Action Taken.* BP fully delineated the impacted soil via excavation and trenching. A final C-141 was never filed following completion of these activities. The attached report and laboratory reports support no further action at this location.

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: Steve Moskal	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date: 10/24/18	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: February 27, 2017 Phone: 505-330-9179		

* Attach Additional Sheets If Necessary

#NSK1217248142

NMOCD

MAR 01 2018

DISTRICT III

126

BP America
Nye LS 1A
(O) Sec 23 – T31N – R11W
San Juan County, New Mexico
API: 30-045-23047

Summary Record of Impact Remediation

May 17, 2012 Initial investigation from a minor release at a 400 barrel tank. Initial shallow soil sampling analytical laboratory testing of impacted soils at the 2' depth reported total petroleum hydrocarbons (TPH) at 3,750 ppm.

Site soil closure standard determined at 100 ppm TPH and 50 ppm total BTEX (with 10 ppm benzene) based on:

Depth to Groundwater <10 feet (20 points)

Additional actions include closure sampling at 95 bbl BGT. Groundwater sample collected below the BGT tested non-detect for BTEX, but failed on chloride testing at 380 ppm (site standard = 250 ppm).

May 23, 2012 Follow-up investigation at 400 barrel tank, with test trenches and soil sampling, indicated no impacts exceeding regulatory standards were present. (Investigation notes and laboratory reports attached).

July 17 – Oct 4, 2012 Excavation of hydrocarbon impacted soils discovered while doing site work. Closure sampling conducted on September 19, 2012 and on October 4, 2012. Closure sampling witnessed by NMOCD representative. (Remedial excavation diagrams and laboratory reports attached). All known soils exceeding regulatory standards removed.

July 29-30, 2013 Install 7 groundwater monitor wells to evaluate residual water quality following site remediation. Wells placed at prior 400 bbl tank release site, prior 95 BGT, within remedial soil excavation and down-gradient of remedial excavation.

August 17, 2013 Sample groundwater monitor wells. Monitor wells MW-1 through MW-6 test non-detect on BTEX. Monitor well MW-7 tested at 2.9 ug/L on xylenes only. All wells test below regulatory standards for chlorides and sulfates. (Laboratory test reports attached here, but previously submitted to NMOCD with 95 BGT closure report)

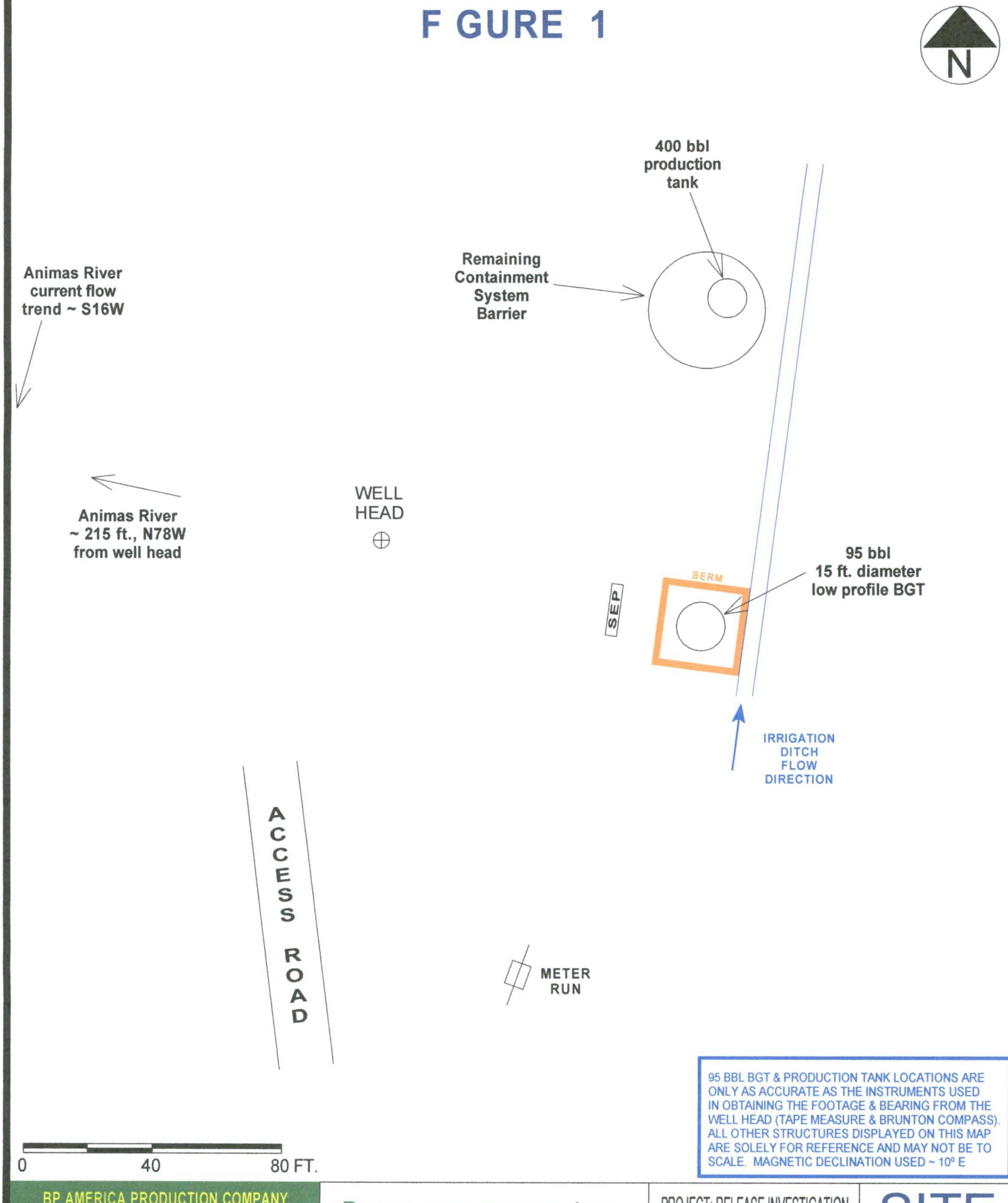
400 Barrel Tank
Minor Release Investigation

Nye LS # 1A
Unit O, Sec. 23, T31N, R11W
API #: 300-45-23047

36.879808°N / 107.956632°W or
36° 52' 47.31"N / 107° 57' 23.88"W

feet 300
meters 90

F GURE 1



95 BBL BGT & PRODUCTION TANK LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E

BP AMERICA PRODUCTION COMPANY

NYE LS # 1A

SW/4 SE/4 SEC. 23, T31N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: RELEASE INVESTIGATION

DRAWN BY: NJV

FILENAME: NYE LS 1A-SM.SKF

DRAFTED: 05-24-12

SITE MAP

05/12

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 30-045-23047
TANK ID (if applicble): NA

FIELD REPORT:

(circle one): BGT CONFIRMATION / (RELEASE INVESTIGATION) / OTHER:

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: NYE LS 1A

DATE STARTED: 5-17-2012
DATE FINISHED: 5-17-2012

QUAD/UNIT: O SEC: 23 TWP: 31N RNG: 11W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: LEASE TYPE: FEDERAL / STATE / (FEE) / INDIAN

LEASE #: PROD. FORMATION: CONTRACTOR: Elkhorn (Reomans)

ENVIRONMENTAL SPECIALIST(S): JCB

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.87980 x 107.95661 GL ELEV.: 5689

1) 400 AST GPS COORD.: DISTANCE/BEARING FROM W.H.: 130 ~~N66E~~ N55E

2) GPS COORD.: DISTANCE/BEARING FROM W.H.:

3) GPS COORD.: DISTANCE/BEARING FROM W.H.:

4) GPS COORD.: DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	OVM READING (ppm)
1)	TH1@2'	5-17-12	0942	TPH/BTEX/Cl	545
2)	TH2@2'	"	0950	—	477
3)	TH3@2'	"	0953	—	244
4)					

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / (SILT / SILTY CLAY) / CLAY / GRAVEL / OTHER

SOIL COLOR: Dark Brown

COHESION (ALL OTHERS): NON COHESIVE / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

CONSISTENCY (NON COHESIVE SOILS): LOOSE / (FIRM) / DENSE / VERY DENSE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED

HC ODOR DETECTED: (YES) / NO EXPLANATION - Strong

SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS.

DISCOLORATION/STAINING OBSERVED: YES / (NO) EXPLANATION -

ANY AREAS DISPLAYING WETNESS: YES / (NO) EXPLANATION -

ADDITIONAL COMMENTS: Potential HC Impacts @ 400 AST Location, Groundwater Depth Estimate 3'±

EXCAVATION DIMENSIONS (if applicable): — ft. X — ft. X — ft. cubic yards excavated (if applicable):

DEPTH TO GROUNDWATER: < 5' NEAREST WATER SOURCE: NEAREST SURFACE WATER: < 200' NMOCD TPH CLOSURE STD: 100 PPM

SITE SKETCH

PLOT PLAN circle: attached

OVM CALIB. READ. = 51.9 ppm RF = 0.52
OVM CALIB. GAS = ~~0845~~ 0840 ppm
TIME: 0845 am/pm DATE: 5-17-12

MISCELL. NOTES

WO: N1515778
PO: 71641
PK: BZBLACATIMC

Tank ID

BGT Sidewalls Visible: Y / N / NA

BGT Sidewalls Visible: Y / N / NA

Magnetic declination: 10 °E

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.

TRAVEL NOTES: CALLOUT: ONSITE:

Analytical Report
Lab Order **1205804**
Date Reported: **5/22/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1205804-001 **Matrix:** SOIL

Client Sample ID: 400 AST TH1 @ 2'
Collection Date: 5/17/2012 9:42:00 AM
Received Date: 5/18/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	250	9.6		mg/Kg	1	5/21/2012 12:28:17 PM
Surr: DNOP	108	82.1-121		%REC	1	5/21/2012 12:28:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	3,500	490		mg/Kg	100	5/21/2012 2:39:13 PM
Surr: BFB	127	69.7-121	S	%REC	100	5/21/2012 2:39:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	15	4.9		mg/Kg	100	5/21/2012 2:39:13 PM
Toluene	140	4.9		mg/Kg	100	5/21/2012 2:39:13 PM
Ethylbenzene	17	4.9		mg/Kg	100	5/21/2012 2:39:13 PM
Xylenes, Total	240	9.8		mg/Kg	100	5/21/2012 2:39:13 PM
Surr: 4-Bromofluorobenzene	87.3	80-120		%REC	100	5/21/2012 2:39:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	7.5		mg/Kg	5	5/21/2012 4:40:17 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
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
RL	Reporting Detection Limit

Chain-of-Custody Record

Client: BLAGG ENGINEERING INC.

BP AMERICA

Mailing Address: P.O. Box 87

BLOOMFIELD, NM 87413

Phone #: 505-632-1199

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: BY TUES 5/22/2012

☐ Standard ☒ Rush _____

Project Name: NYE LS 1A

Project #:

Project Manager: J. BLAGG

Sampler: J. BLAGG

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205804	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
5/17/12	0942	SOIL	400 AST TH1 @ 2'	4 oz x 1	COOL	-001	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/17/12	1540	J. Blagg	Christine Walters	5/17/12	1540
5/17/12	1710	Christine Walters	Michelle Garcia	05/18/12	1000

Remarks: GRO + DRO ON 8015

N1515778

ZBLACATIMC

JEFF PEACE

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205804**

22-May-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-2028**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **2028**	RunNo: **2936**
Prep Date: **5/21/2012**	Analysis Date: **5/21/2012**	SeqNo: **81491** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-2028**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **2028**	RunNo: **2936**
Prep Date: **5/21/2012**	Analysis Date: **5/21/2012**	SeqNo: **81492** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Sample ID **1205804-001AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **400 AST TH1 @ 2'**	Batch ID: **2028**	RunNo: **2936**
Prep Date: **5/21/2012**	Analysis Date: **5/21/2012**	SeqNo: **81494** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	7.5	15.00	1.995	84.6	74.6	118			

Sample ID **1205804-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **400 AST TH1 @ 2'**	Batch ID: **2028**	RunNo: **2936**
Prep Date: **5/21/2012**	Analysis Date: **5/21/2012**	SeqNo: **81495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	7.5	15.00	1.995	85.3	74.6	118	0.672	20	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205804**

22-May-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-2010**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2010**	RunNo: **2904**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **80580** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		94.8	82.1	121			

Sample ID **LCS-2010**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2010**	RunNo: **2904**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **80581** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
I Range Organics (DRO)	42	10	50.00	0	84.7	52.6	130			
Surr: DNOP	4.2		5.000		84.2	82.1	121			

Sample ID **MB-2024**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2024**	RunNo: **2934**
Prep Date: **5/21/2012**	Analysis Date: **5/22/2012**	SeqNo: **81538** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.6	82.1	121			

Sample ID **LCS-2024**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2024**	RunNo: **2934**
Prep Date: **5/21/2012**	Analysis Date: **5/22/2012**	SeqNo: **81539** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.3	82.1	121			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205804**

22-May-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-2011**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81628** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1,000		1,000		102	69.7	121			

Sample ID **LCS-2011**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	98.5	133			
Surr: BFB	1,100		1,000		108	69.7	121			

Sample ID **1205762-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.49	0	119	85.4	147			
Surr: BFB	1,100		979.4		110	69.7	121			

Sample ID **1205762-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81648** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.83	0	117	85.4	147	0.618	19.2	
Surr: BFB	1,100		993.0		112	69.7	121	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205804**

22-May-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-2011**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81658** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.9	80	120			

Sample ID **LCS-2011**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/22/2012**	SeqNo: **81659** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.050	1.000	0	82.6	83.3	107			S
Toluene	0.87	0.050	1.000	0	86.6	74.3	115			
Ethylbenzene	0.85	0.050	1.000	0	85.2	80.9	122			
Xylenes, Total	2.6	0.10	3.000	0	85.4	85.2	123			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	80	120			

Sample ID **1205762-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81670** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.048	0.9634	0	81.2	67.2	113			
Toluene	0.83	0.048	0.9634	0	86.1	62.1	116			
Ethylbenzene	0.83	0.048	0.9634	0	86.2	67.9	127			
Xylenes, Total	2.5	0.096	2.890	0	85.8	60.6	134			
Surr: 4-Bromofluorobenzene	0.86		0.9634		89.6	80	120			

Sample ID **1205762-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **2011**	RunNo: **2921**
Prep Date: **5/18/2012**	Analysis Date: **5/21/2012**	SeqNo: **81671** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.049	0.9747	0	84.4	67.2	113	5.01	14.3	
Toluene	0.86	0.049	0.9747	0	87.8	62.1	116	3.18	15.9	
Ethylbenzene	0.85	0.049	0.9747	0	87.7	67.9	127	2.91	14.4	
Xylenes, Total	2.6	0.097	2.924	0	88.6	60.6	134	4.41	12.6	
Surr: 4-Bromofluorobenzene	0.87		0.9747		89.7	80	120	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1205804

Received by/date: MG 05/18/12

Logged By: Ashley Gallegos 5/18/2012 10:00:00 AM

Completed By: Ashley Gallegos 5/18/2012 10:33:10 AM

Reviewed By: IO 05/18/12

Chain of Custody

1. Were seals intact?	Yes	No	Not Present ✔	
2. Is Chain of Custody complete?	Yes ✔	No	Not Present	
3. How was the sample delivered?	Courier			

Log In

4. Coolers are present? (see 19. for cooler specific information)	Yes ✔	No	NA	
5. Was an attempt made to cool the samples?	Yes ✔	No	NA	
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✔	No	NA	
7. Sample(s) in proper container(s)?	Yes ✔	No		
8. Sufficient sample volume for indicated test(s)?	Yes ✔	No		
9. Are samples (except VOA and ONG) properly preserved?	Yes ✔	No		
10. Was preservative added to bottles?	Yes	No ✔	NA	
11. VOA vials have zero headspace?	Yes	No	No VOA Vials ✔	
12. Were any sample containers received broken?	Yes	No ✔		
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	# of preserved bottles checked for pH:	
14. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	(<2 or >12 unless noted)	
15. Is it clear what analyses were requested?	Yes ✔	No	Adjusted?	
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✔	No	Checked by:	

Special Handling (if applicable)

17. 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:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

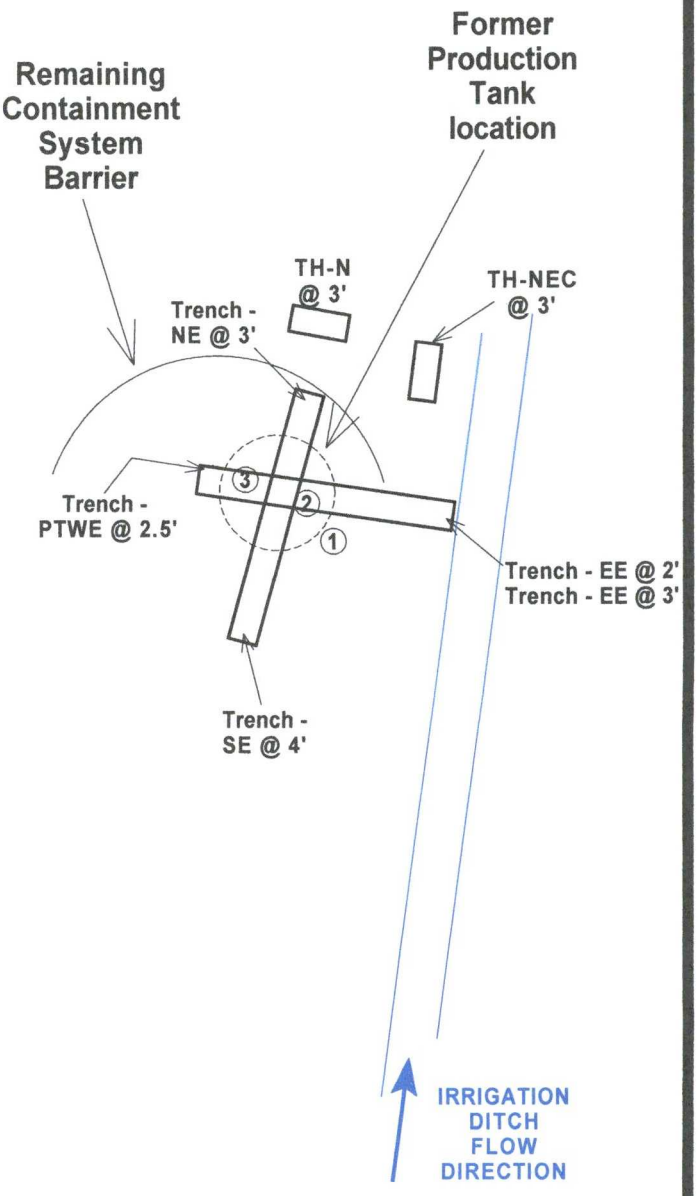
FIGURE 2

SAMP. ID	SAMP. DEPTH (ft.)	DATE	TIME	OVM (ppm)	TPH (ppm)	Benzene (ppm)	Tot.BTEX (ppm)
TH #1	2	5/17/12	0942	545	3,750	15	412
TH #2	2	5/17/12	0950	477	NA	NA	NA
TH #3	2	5/17/12	0953	244	NA	NA	NA
TRENCH - EE	2	5/23/12	1100	48.9	ND	ND	ND
TRENCH - EE	3	5/23/12	1111	10.0	ND	ND	0.12
TRENCH - PTWE	2.5	5/23/12	1114	153	13	0.68	2.28
TRENCH - NE	3	5/23/12	1135	18.0	7.9	0.48	0.94
TRENCH - SE	4	5/23/12	1145	0.0	ND	ND	ND
TH - NEC	3	5/23/12	1128	0.0	ND	ND	ND
TH - N	3	5/23/12	1150	0.0	ND	ND	ND
NMOCD RELEASE GUIDELINES CLOSURE STANDARDS				100	100	10	50

NOTE: OVM - Organic Vapor Meter or Photo Ionization Detector (P.I.D.); ppm - parts per million or milligrams/Kilograms (mg/Kg); ND - Non detect at lab reporting limit, NA - Not available or applicable, TPH - Total Petroleum Hydrocarbons; BTEX - Benzene, Toluene, Ethylbenzene, & total Xylenes; NMOCD - New Mexico Oil Conservation Division.

OVM CALIBRATION
51.9 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 5/17/12 Time - 0845.

OVM CALIBRATION
53.0 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 5/23/12 Time - 1000.



⊕ WELL HEAD

95 BBL BGT & PRODUCTION TANK LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E

0 20 40 FT.

BP AMERICA PRODUCTION COMPANY
NYE LS # 1A
SW/4 SE/4 SEC. 23, T31N, R11W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: RELEASE INVESTIGATION
DRAWN BY: NJV
FILENAME: NYE LS 1A Excav. Map.SKF
DRAFTED: 05-24-12

ASSESSMENT SCHEMATIC
05/12

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 07, 2012

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: NYE LS #1A OrderNo.: 1205A68

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/25/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. 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 don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1205A68**
Date Reported: **6/7/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-001 **Matrix:** SOIL

Client Sample ID: Trench-EE @ 2' - Production Ta
Collection Date: 5/23/2012 11:00:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/30/2012 8:09:45 AM
Surr: DNOP	107	82.1-121		%REC	1	5/30/2012 8:09:45 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/31/2012 1:33:29 PM
Surr: BFB	101	69.7-121		%REC	1	5/31/2012 1:33:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	5/31/2012 1:33:29 PM
Toluene	ND	0.048		mg/Kg	1	5/31/2012 1:33:29 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/31/2012 1:33:29 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/31/2012 1:33:29 PM
Surr: 4-Bromofluorobenzene	99.0	80-120		%REC	1	5/31/2012 1:33:29 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
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
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-002 **Matrix:** SOIL

Client Sample ID: Trench-EE @ 3' - Production Ta
Collection Date: 5/23/2012 11:11:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/30/2012 9:14:23 AM
Surr: DNOP	107	82.1-121		%REC	1	5/30/2012 9:14:23 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2012 2:02:15 PM
Surr: BFB	97.5	69.7-121		%REC	1	5/31/2012 2:02:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	5/31/2012 2:02:15 PM
Toluene	ND	0.049		mg/Kg	1	5/31/2012 2:02:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2012 2:02:15 PM
Xylenes, Total	0.12	0.098		mg/Kg	1	5/31/2012 2:02:15 PM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	5/31/2012 2:02:15 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
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
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-003 **Matrix:** SOIL

Client Sample ID: Trench-PTWE @ 2.5' - Producti
Collection Date: 5/23/2012 11:14:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/30/2012 9:36:04 AM
Surr: DNOP	109	82.1-121		%REC	1	5/30/2012 9:36:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	13	4.8		mg/Kg	1	5/31/2012 2:31:05 PM
Surr: BFB	93.9	69.7-121		%REC	1	5/31/2012 2:31:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	0.68	0.048		mg/Kg	1	5/31/2012 2:31:05 PM
Toluene	0.16	0.048		mg/Kg	1	5/31/2012 2:31:05 PM
Ethylbenzene	0.14	0.048		mg/Kg	1	5/31/2012 2:31:05 PM
Xylenes, Total	1.3	0.097		mg/Kg	1	5/31/2012 2:31:05 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	5/31/2012 2:31:05 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-004 **Matrix:** SOIL

Client Sample ID: Trench-NE @ 3' - Production Ta
Collection Date: 5/23/2012 11:35:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/30/2012 9:57:38 AM
Surr: DNOP	108	82.1-121		%REC	1	5/30/2012 9:57:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	7.9	4.8		mg/Kg	1	5/31/2012 2:59:55 PM
Surr: BFB	107	69.7-121		%REC	1	5/31/2012 2:59:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	0.48	0.048		mg/Kg	1	5/31/2012 2:59:55 PM
Toluene	0.29	0.048		mg/Kg	1	5/31/2012 2:59:55 PM
Ethylbenzene	0.17	0.048		mg/Kg	1	5/31/2012 2:59:55 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/31/2012 2:59:55 PM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	5/31/2012 2:59:55 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-005 **Matrix:** SOIL

Client Sample ID: Trench-SE @ 4' - Produtcion Tan
Collection Date: 5/23/2012 11:45:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/30/2012 10:19:22 AM
Surr: DNOP	109	82.1-121		%REC	1	5/30/2012 10:19:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2012 3:28:46 PM
Surr: BFB	93.3	69.7-121		%REC	1	5/31/2012 3:28:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	5/31/2012 3:28:46 PM
Toluene	ND	0.050		mg/Kg	1	5/31/2012 3:28:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2012 3:28:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/31/2012 3:28:46 PM
Surr: 4-Bromofluorobenzene	98.1	80-120		%REC	1	5/31/2012 3:28:46 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
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
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-006 **Matrix:** SOIL

Client Sample ID: TH-NEC @ 3' - Produtcion Tank
Collection Date: 5/23/2012 11:28:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/30/2012 11:02:47 AM
Surr: DNOP	120	82.1-121		%REC	1	5/30/2012 11:02:47 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/31/2012 3:57:33 PM
Surr: BFB	92.3	69.7-121		%REC	1	5/31/2012 3:57:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	5/31/2012 3:57:33 PM
Toluene	ND	0.049		mg/Kg	1	5/31/2012 3:57:33 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/31/2012 3:57:33 PM
Xylenes, Total	ND	0.099		mg/Kg	1	5/31/2012 3:57:33 PM
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	5/31/2012 3:57:33 PM

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205A68-007 **Matrix:** SOIL

Client Sample ID: TH-N @ 3' - Produtcion Tank Re
Collection Date: 5/23/2012 11:50:00 AM
Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/30/2012 11:24:31 AM
Surr: DNOP	118	82.1-121		%REC	1	5/30/2012 11:24:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/31/2012 4:26:19 PM
Surr: BFB	91.8	69.7-121		%REC	1	5/31/2012 4:26:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	5/31/2012 4:26:19 PM
Toluene	ND	0.050		mg/Kg	1	5/31/2012 4:26:19 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/31/2012 4:26:19 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/31/2012 4:26:19 PM
Surr: 4-Bromofluorobenzene	97.7	80-120		%REC	1	5/31/2012 4:26:19 PM

Qualifiers:

*/X	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
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#: **1205A68**

07-Jun-12

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB-2136**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2136**	RunNo: **3082**
Prep Date: **5/29/2012**	Analysis Date: **5/30/2012**	SeqNo: **85154** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
[Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	82.1	121			

Sample ID **LCS-2136**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2136**	RunNo: **3082**
Prep Date: **5/29/2012**	Analysis Date: **5/30/2012**	SeqNo: **85155** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
[Range Organics (DRO)	42	10	50.00	0	83.3	52.6	130			
Surr: DNOP	4.6		5.000		91.9	82.1	121			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205A68**

07-Jun-12

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB-2132**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **2132**	RunNo: **3143**
Prep Date: **5/29/2012**	Analysis Date: **5/31/2012**	SeqNo: **86847** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.5	69.7	121			

Sample ID **LCS-2132**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **2132**	RunNo: **3143**
Prep Date: **5/29/2012**	Analysis Date: **5/31/2012**	SeqNo: **86848** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	98.5	133			
Surr: BFB	1000		1000		102	69.7	121			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205A68**

07-Jun-12

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB-2132**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **2132**	RunNo: **3143**
Prep Date: **5/29/2012**	Analysis Date: **5/31/2012**	SeqNo: **86876** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			

Sample ID **LCS-2132**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **2132**	RunNo: **3143**
Prep Date: **5/29/2012**	Analysis Date: **5/31/2012**	SeqNo: **86877** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	83.3	107			
Toluene	1.0	0.050	1.000	0	104	74.3	115			
Ethylbenzene	1.1	0.050	1.000	0	106	80.9	122			
Xylenes, Total	3.2	0.10	3.000	0	107	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1205A68

Received by/date: AT 05/25/12

Logged By: **Lindsay Mangin** 5/25/2012 10:25:00 AM

Completed By: **Lindsay Mangin** 5/25/2012 12:16:23 PM

Reviewed By: AT 05/25/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. 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: _____

18. Additional remarks:

19. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: NYE LS # 1A

Project #:

Project Manager: JEFF BLAGG

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205A08	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample
5/23/12	1100	SOIL	Trench-EE @ 2' - Production Tank Release	4 oz. - 1	Cool	-001	✓		✓											✓	
5/23/12	1111	SOIL	Trench-EE @ 3' - Production Tank Release	4 oz. - 1	Cool	-002	✓		✓											✓	
5/23/12	1114	SOIL	Trench-PTWE @ 2.5' - Production Tank Release	4 oz. - 1	Cool	-003	✓		✓											✓	
5/23/12	1135	SOIL	Trench-NE @ 3' - Production Tank Release	4 oz. - 1	Cool	-004	✓		✓											✓	
5/23/12	1145	SOIL	Trench-SE @ 3' - Production Tank Release	4 oz. - 1	Cool	-005	✓		✓											✓	
5/23/12	1128	SOIL	TH-NEC @ 3' - Production Tank Release	4 oz. - 1	Cool	-006	✓		✓											✓	
5/23/12	1150	SOIL	TH-N @ 3' - Production Tank Release	4 oz. - 1	Cool	-007	✓		✓											✓	

Analysis Request

Date	Time	Relinquished by:	Received by:	Date	Time
5/24/12	802		Christie Walters	5/24/12	802
5/24/12	1748	Christie Walters		05/25/12	1025

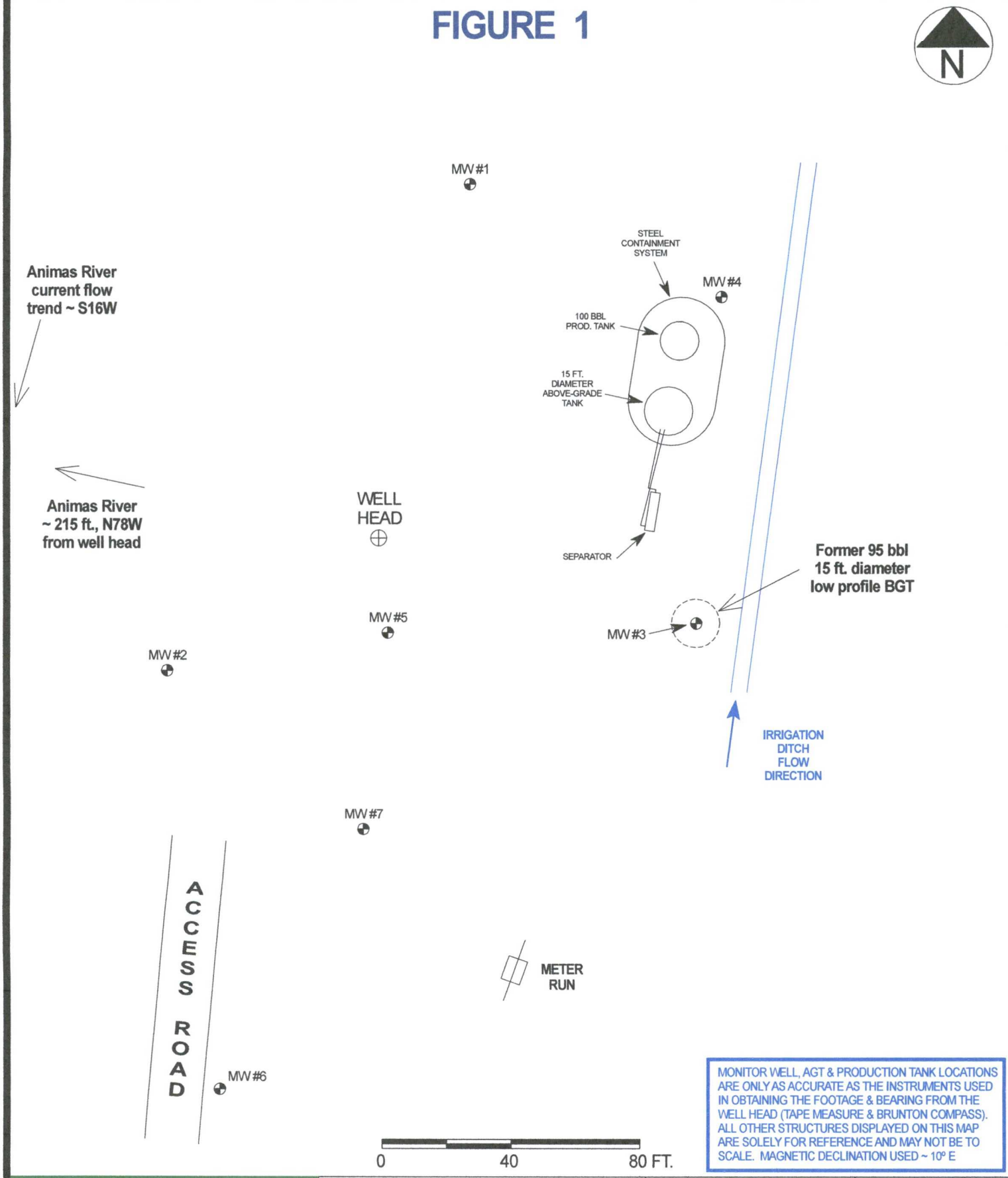
Remarks: TPH (8015B) - GRO & DRO ONLY.
SPOKE W/ JEFF BLAGG REGARDING SAMPLE REQUEST ID ON -005

BILL DIRECTLY TO BP: Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N1515778 Paykey: ZBLACATIMC

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.

FIGURE 1



MONITOR WELL, AGT & PRODUCTION TANK LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E

BP AMERICA PRODUCTION COMPANY

NYE LS # 1A

SW/4 SE/4 SEC. 23, T31N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW INSTALLATIONS

DRAWN BY: NJV

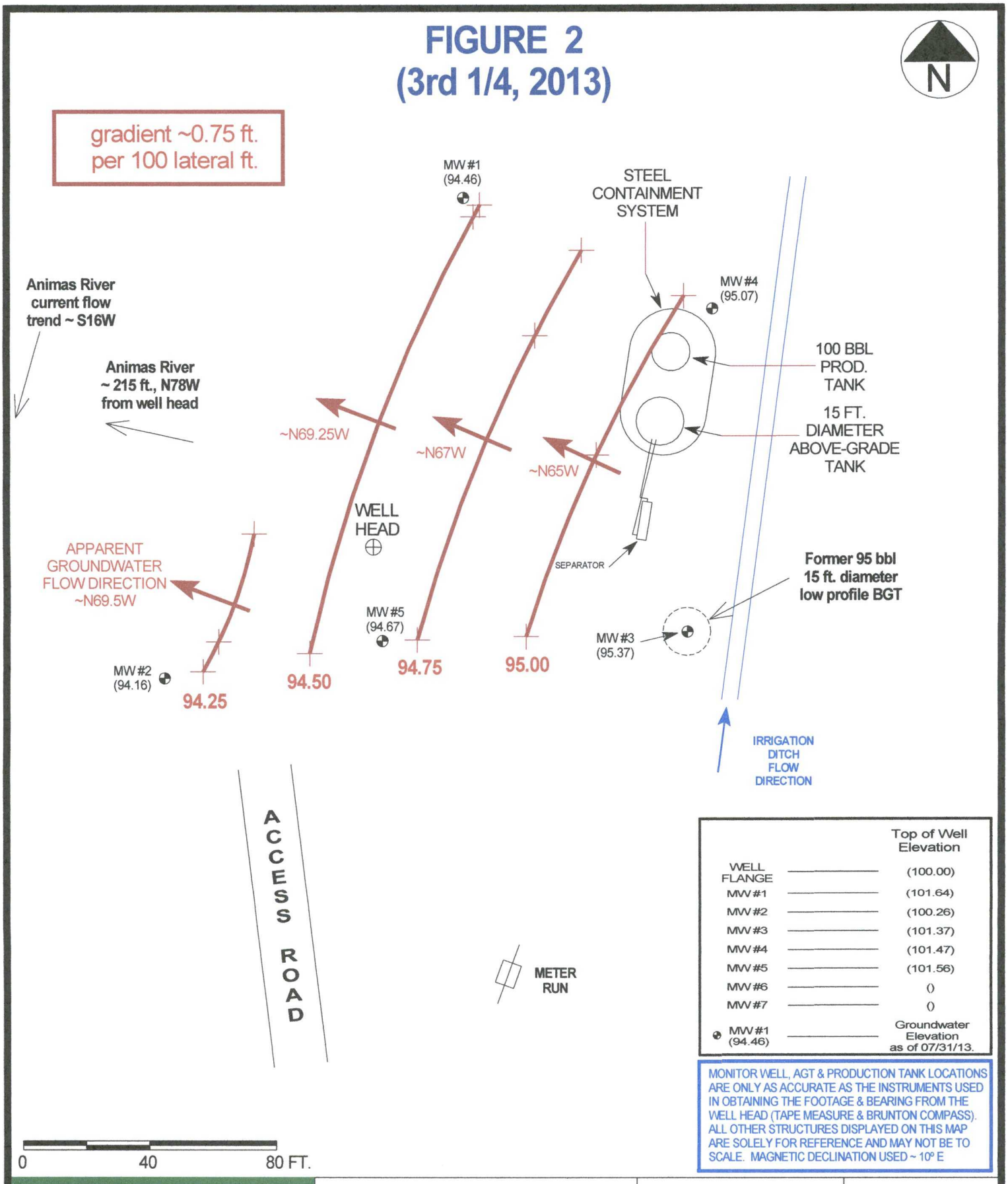
FILENAME: NYE LS 1A Site Map 08-17-13.SKF

REVISED: 09-15-15

SITE MAP

08/13

FIGURE 2
(3rd 1/4, 2013)



	Top of Well Elevation
WELL FLANGE	(100.00)
MW #1	(101.64)
MW #2	(100.26)
MW #3	(101.37)
MW #4	(101.47)
MW #5	(101.56)
MW #6	()
MW #7	()
MW #1 (94.46)	Groundwater Elevation as of 07/31/13.

MONITOR WELL, AGT & PRODUCTION TANK LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E

BP AMERICA PRODUCTION COMPANY

NYE LS # 1A

SW/4 SE/4 SEC. 23, T31N, R11W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW INSTALLATIONS

DRAWN BY: NJV

FILENAME: 07-31-13-GW.SKF

DRAFTED: 07-31-13

GROUNDWATER CONTOUR MAP

07/13

Analytical Report
Lab Order **1205841**
Date Reported: **5/24/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1205841-001 **Matrix:** AQUEOUS

Client Sample ID: GW @ 3' (95 LP BGT)
Collection Date: 5/17/2012 9:50:00 AM
Received Date: 5/18/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Toluene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Ethylbenzene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Xylenes, Total	ND	2.0		µg/L	1	5/21/2012 5:54:21 PM
Surr: 4-Bromofluorobenzene	94.6	55-140		%REC	1	5/21/2012 5:54:21 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	380	10		mg/L	20	5/21/2012 1:53:50 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
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
RL	Reporting Detection Limit

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: NYE LS #1A

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ 9VS

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205841	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (~~300.0~~ 300.1) 9VS		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
5/17/12	0950	WATER	GW@3' (95 LP BGT)	40ml - 2	HCl+cool	-001	✓													✓		
5/17/12	0950	WATER	GW@3' (95 LP BGT)	500ml - 1	cool	-002												✓		✓		

MTB 5/21/12

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/17/12	1320		Christine Walker	5/17/12	1320
5/17/12	1710	Christine Walker	Michelle	05/18/12	1000

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

BILL DIRECTLY TO BP:
Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N15778 Paykey: ZBLACATIMC

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.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205841**

24-May-12

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81679** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81680** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.4	90	110			

Sample ID **1205829-003AMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81682** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	5.000	7.117	103	78	107			

Sample ID **1205829-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81683** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	5.000	7.117	102	78	107	0.334	20	

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81735** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81736** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.4	90	110			

Sample ID **1205873-001BMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R2942**	RunNo: **2942**
Prep Date:	Analysis Date: **5/22/2012**	SeqNo: **81744** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	19	0.50	5.000	13.35	104	78	107			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205841**

24-May-12

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	**1205873-001BMSD**	SampType:	**MSD**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**BatchQC**	Batch ID:	**R2942**		RunNo:	**2942**				
Prep Date:		Analysis Date:	**5/22/2012**		SeqNo:	**81745**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	19	0.50	5.000	13.35	104	78	107	0.235	20	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205841**

24-May-12

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R2940**	RunNo: **2940**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81596** 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	20		20.00		99.9	55	140			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R2940**	RunNo: **2940**
Prep Date:	Analysis Date: **5/21/2012**	SeqNo: **81598** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	23		20.00		113	55	140			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1205841

Received by/date: MG 05/18/12

Logged By: Anne Thorne 5/18/2012 10:00:00 AM Anne Thorne

Completed By: Anne Thorne 5/21/2012 Anne Thorne

Reviewed By: AT 05/21/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☑ No ☐
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. 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: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 03, 2013

Nelson Velez
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-3489
FAX (505) 632-3903

RE: NYE LS #1A OrderNo.: 1308871

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/20/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1308871**
Date Reported: **9/3/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-001
Matrix: AQUEOUS
Client Sample ID: MW #1
Collection Date: 8/17/2013 7:40:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 12:18:43 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.71	0.10		mg/L	1	8/21/2013 11:30:25 AM	R12802
Chloride	27	10		mg/L	20	8/21/2013 12:07:39 PM	R12802
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/21/2013 11:17:40 PM	R12802
Sulfate	81	10		mg/L	20	8/21/2013 12:07:39 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.65	0.020	*	mg/L	1	8/26/2013 8:13:10 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	750	200	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Client Sample ID: MW #2
Project: NYE LS #1A
Collection Date: 8/17/2013 8:30:00 AM
Lab ID: 1308871-002
Matrix: AQUEOUS
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 12:48:46 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.42	0.10		mg/L	1	8/21/2013 12:20:04 PM	R12802
Chloride	44	10		mg/L	20	8/21/2013 12:32:29 PM	R12802
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/21/2013 11:30:05 PM	R12802
Sulfate	540	10		mg/L	20	8/21/2013 12:32:29 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	3.6	0.10	*	mg/L	5	8/26/2013 8:25:02 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	1240	200	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-003
Matrix: AQUEOUS
Client Sample ID: MW #3
Collection Date: 8/17/2013 10:00:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 1:19:00 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.57	0.10		mg/L	1	8/21/2013 1:22:07 PM	R12802
Chloride	22	10		mg/L	20	8/21/2013 1:34:32 PM	R12802
Nitrate+Nitrite as N	4.9	1.0		mg/L	5	8/21/2013 11:42:30 PM	R12802
Sulfate	120	10		mg/L	20	8/21/2013 1:34:32 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.042	0.020		mg/L	1	8/26/2013 8:29:06 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	485	100		mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order **1308871**
Date Reported: **9/3/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-004
Matrix: AQUEOUS
Client Sample ID: MW #4
Collection Date: 8/17/2013 10:45:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 1:49:18 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.49	0.10		mg/L	1	8/21/2013 1:46:56 PM	R12802
Chloride	23	10		mg/L	20	8/21/2013 1:59:20 PM	R12802
Nitrate+Nitrite as N	5.1	1.0		mg/L	5	8/21/2013 11:54:55 PM	R12802
Sulfate	130	10		mg/L	20	8/21/2013 1:59:20 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.057	0.020		mg/L	1	8/26/2013 8:37:20 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	575	100	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-005
Matrix: AQUEOUS
Client Sample ID: MW #5
Collection Date: 8/17/2013 12:10:00 PM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 2:19:24 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.65	0.10		mg/L	1	8/21/2013 2:11:45 PM	R12802
Chloride	23	10		mg/L	20	8/21/2013 2:24:09 PM	R12802
Nitrate+Nitrite as N	1.3	1.0		mg/L	5	8/22/2013 12:07:20 AM	R12802
Sulfate	260	10		mg/L	20	8/21/2013 2:24:09 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	ND	0.020		mg/L	1	8/26/2013 8:45:30 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	684	40.0	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-006
Matrix: AQUEOUS
Client Sample ID: MW #6
Collection Date: 8/17/2013 11:30:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 2:49:39 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.46	0.10		mg/L	1	8/21/2013 2:36:33 PM	R12802
Chloride	20	10		mg/L	20	8/21/2013 2:48:58 PM	R12802
Nitrate+Nitrite as N	1.7	1.0		mg/L	5	8/22/2013 12:19:44 AM	R12802
Sulfate	110	10		mg/L	20	8/21/2013 2:48:58 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	ND	0.020		mg/L	1	8/26/2013 9:05:51 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	444	40.0		mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-007
Matrix: AQUEOUS
Client Sample ID: MW #7
Collection Date: 8/17/2013 9:10:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Xylenes, Total	2.9	2.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Surr: 4-Bromofluorobenzene	107	69.4-129		%REC	1	8/21/2013 3:19:53 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.59	0.10		mg/L	1	8/21/2013 3:01:23 PM	R12802
Chloride	24	10		mg/L	20	8/21/2013 3:13:47 PM	R12802
Nitrate+Nitrite as N	2.4	1.0		mg/L	5	8/22/2013 12:32:08 AM	R12802
Sulfate	270	10		mg/L	20	8/21/2013 3:13:47 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	ND	0.020		mg/L	1	8/26/2013 9:14:02 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	702	40.0	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
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#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R12893**	RunNo: **12893**
Prep Date:	Analysis Date: **8/26/2013**	SeqNo: **367533** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R12893**	RunNo: **12893**
Prep Date:	Analysis Date: **8/26/2013**	SeqNo: **367534** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.49	0.020	0.5000	0	97.7	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364935** 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								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS-b**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364937** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.1	90	110			
Chloride	4.6	0.50	5.000	0	93.0	90	110			
Sulfate	9.5	0.50	10.00	0	94.9	90	110			
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.6	90	110			

Sample ID **1308871-001BMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW #1**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364939** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.2	0.10	0.5000	0.7095	91.7	76.9	114			

Sample ID **1308871-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW #1**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364940** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.7095	86.6	76.9	114	2.20	20	

Sample ID **1308898-001BMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364962** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.6796	91.1	76.9	114			
Chloride	9.8	0.50	5.000	4.761	101	89.9	119			
Sulfate	28	0.50	10.00	17.48	107	90.1	116			
Nitrate+Nitrite as N	3.6	0.20	3.500	0.2331	95.9	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **1308898-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364963** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.6796	92.2	76.9	114	0.466	20	
Chloride	9.8	0.50	5.000	4.761	101	89.9	119	0.339	20	
Sulfate	28	0.50	10.00	17.48	108	90.1	116	0.204	20	
Nitrate+Nitrite as N	3.6	0.20	3.500	0.2331	95.7	90	110	0.131	20	

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/22/2013**	SeqNo: **365005** 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								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/22/2013**	SeqNo: **365006** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	103	90	110			
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Sulfate	9.9	0.50	10.00	0	99.5	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R12796**	RunNo: **12796**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364721** 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	21		20.00		107	69.4	129			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R12796**	RunNo: **12796**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364722** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.7	80	120			
Toluene	19	1.0	20.00	0	96.8	80	120			
Ethylbenzene	19	1.0	20.00	0	96.8	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	69.4	129			

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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB-8968**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **8968**	RunNo: **12829**
Prep Date: **8/21/2013**	Analysis Date: **8/23/2013**	SeqNo: **365551** 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-8968**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **8968**	RunNo: **12829**
Prep Date: **8/21/2013**	Analysis Date: **8/23/2013**	SeqNo: **365552** 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			

Sample ID **1308726-002EMS**	SampType: **MS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **8968**	RunNo: **12829**
Prep Date: **8/21/2013**	Analysis Date: **8/23/2013**	SeqNo: **365556** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	8160	40.0	2000	6104	103	80	120			

Sample ID **1308726-002EMSD**	SampType: **MSD**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **BatchQC**	Batch ID: **8968**	RunNo: **12829**
Prep Date: **8/21/2013**	Analysis Date: **8/23/2013**	SeqNo: **365557** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	8090	40.0	2000	6104	99.3	80	120	0.862	5	

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 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1308871 RcptNo: 1

Received by/date: LM 08/20/13

Logged By: Anne Thorne 8/20/2013 9:50:00 AM Anne Thorne

Completed By: Anne Thorne 8/20/2013 Anne Thorne

Reviewed By: MG 08/21/13

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?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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 ☐	

# of preserved bottles checked for pH: 14 (<2 or >12 unless noted)

Adjusted? NO

Checked by:

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87**

BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: **NYE LS # 1A**

Project #:

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308871	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,~~NO3,NO2,PO4,SO4~~)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N, ~~Nitrite N~~			Grab sample	5 pt. composite sample
8/17/13	0740	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-001	✓													✓	
8/17/13	0740	WATER	MW # 1	500 ml - 1	Cool	-001								✓	✓					✓	
8/17/13	0740	WATER	MW # 1	125 ml - 1	HNO_3 & Cool	-001										✓				✓	
8/17/13	0740	WATER	MW # 1	125 ml - 1	H_2SO_4	-001											✓			✓	
8/17/13	0830	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-002	✓													✓	
8/17/13	0830	WATER	MW # 2	500 ml - 1	Cool	-002								✓	✓					✓	
8/17/13	0830	WATER	MW # 2	125 ml - 1	HNO_3 & Cool	-002										✓				✓	
8/17/13	0830	WATER	MW # 2	125 ml - 1	H_2SO_4	-002											✓			✓	
8/17/13	1000	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-003	✓													✓	
8/17/13	1000	WATER	MW # 3	500 ml - 1	Cool	-003								✓	✓					✓	
8/17/13	1000	WATER	MW # 3	125 ml - 1	HNO_3 & Cool	-003										✓				✓	
8/17/13	1000	WATER	MW # 3	125 ml - 1	H_2SO_4	-003											✓			✓	

Date	Time	Relinquished by:	Received by:	Date	Time
8/19/13	937		Christine Walters	8/19/13	937
8/19/13	1600	Christine Walters		08/20/13	0950

Remarks: Pg - 1 of 3

Send invoice to :
Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

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.

Chain of Custody Record

Client:	BLAGG ENGR. / BP AMERICA
Mailing Address:	P.O. BOX 87
	BLOOMFIELD, NM 87413
Phone #:	(505) 632-1199
email or Fax#:	
QA/QC Package:	☑ Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other ____
☐ EDD (Type)	____

☑ Standard ☐ Rush ____

Project Name: **NYE LS # 1A**

Project #:

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ** gvv

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308871	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,~~NO3,NO2,PO4,~~SO4)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N / ~~Nitrite N~~			Grab sample	5 pt. composite sample
8/17/13	1045	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-004	✓													✓	
8/17/13	1045	WATER	MW # 4	500 ml - 1	Cool	-004								✓	✓					✓	
8/17/13	1045	WATER	MW # 4	125 ml - 1	HNO_3 & Cool	-004										✓				✓	
8/17/13	1045	WATER	MW # 4	125 ml - 1	H_2SO_4	-004											✓			✓	
8/17/13	1210	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-005	✓													✓	
8/17/13	1210	WATER	MW # 5	500 ml - 1	Cool	-005								✓	✓					✓	
8/17/13	1210	WATER	MW # 5	125 ml - 1	HNO_3 & Cool	-005										✓				✓	
8/17/13	1210	WATER	MW # 5	125 ml - 1	H_2SO_4	-005											✓			✓	
8/17/13	1130	WATER	MW # 6	40 ml VOA - 2	HCl & Cool	-006	✓													✓	
8/17/13	1130	WATER	MW # 6	500 ml - 1	Cool	-006								✓	✓					✓	
8/17/13	1130	WATER	MW # 6	125 ml - 1	HNO_3 & Cool	-006										✓				✓	
8/17/13	1130	WATER	MW # 6	125 ml - 1	H_2SO_4	-006											✓			✓	

Date	Time	Relinquished by:	Received by:	Date	Time
8/19/13	937		Christine Walker	8/19/13	937
8/19/13	1400	Christine Walker		8/20/13	0850

Remarks:

Pg. 2 of 3

Send invoice to :

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

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn Around Time:
☑ Standard ☐ Rush

Project Name: NYE LS # 1A

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ NV

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308871	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,~~NO3,NO2,PO4,~~SO4)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N ~~+ Nitrite N~~			Grab sample	5 pt. composite sample
8/17/13	0910	WATER	MW # 7	40 ml VOA - 2	HCl & Cool	-007	✓													✓	
8/17/13	0910	WATER	MW # 7	500 ml - 1	Cool	-007								✓	✓					✓	
8/17/13	0910	WATER	MW # 7	125 ml - 1	HNO_3 & Cool	-007										✓				✓	
8/17/13	0910	WATER	MW # 7	125 ml - 1	H_2SO_4	-007											✓			✓	

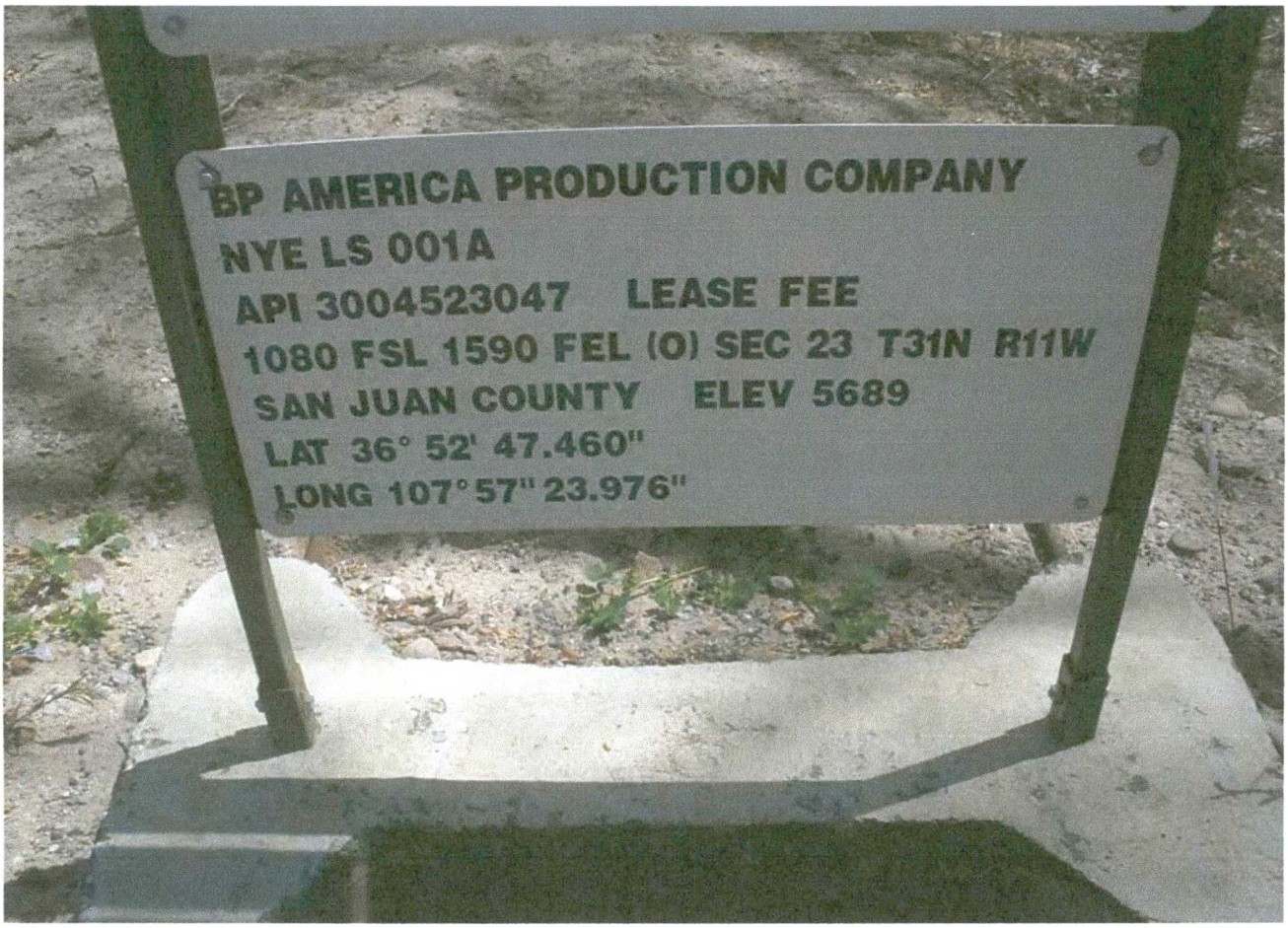
Date	Time	Relinquished by:	Received by:	Date	Time
8/19/13	937			8/19/13	937
8/19/13	1600			8/20/13	0950

Remarks:

pg. 3 of 3

Send invoice to :
Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

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.


BP AMERICA PRODUCTION COMPANY
NYE LS 001A
API 3004523047 LEASE FEE
1080 FSL 1590 FEL (O) SEC 23 T31N R11W
SAN JUAN COUNTY ELEV 5689
LAT 36° 52' 47.460"
LONG 107° 57" 23.976"


Groundwater Monitor Well (MW #3)
Previous 95 bbl BGT Position (Tank ID: A)
A

BP America
Nye LS 1A
(O) Sec 23 – T31N – R11W
San Juan County, New Mexico
API: 30-045-23047

Addendum to February 22, 2018 Closure Document

A: Soil Sampling Methodology

Soil samples for all sample events were collected from sidewalls or test trenches using the on-site excavator. Samples, either grab or composites, were placed into a 1-gallon baggie, thoroughly mixed, then measured for volatile hydrocarbons using a calibrated organic vapor meter. Samples that were selected for laboratory analytical testing were then placed into a laboratory supplied 4-ounch jar with Teflon lid, labeled, placed in an ice chest with ice and hand delivered to the analytical laboratory representative with Chain-of-Custody documentation.

B: Soil Sampling Locations

The attached location map has been marked up with the referencing laboratory data sheets, which have also been labeled to match the identification marks on the map.

C: Excavation Size:

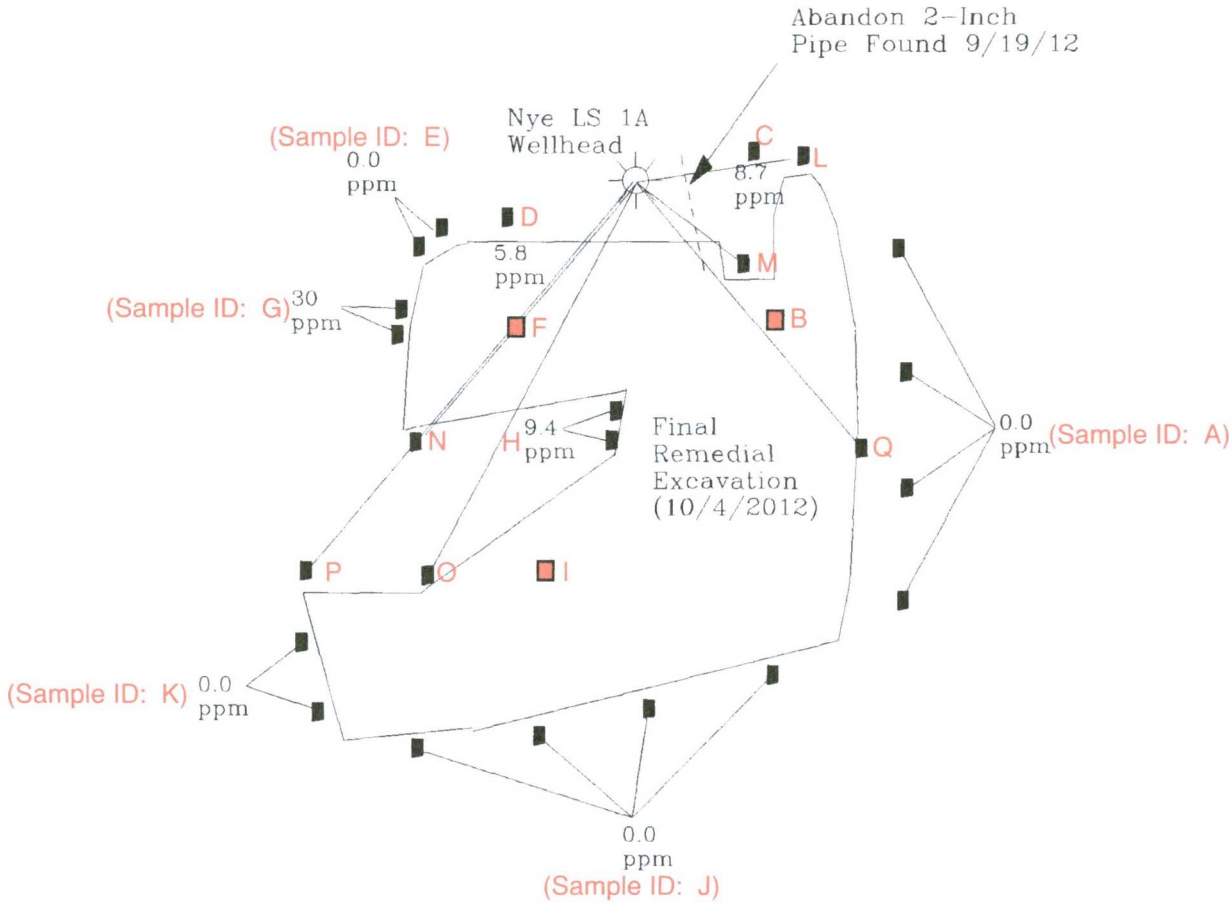
The final excavation was approximately 130' x 120' x 8' deep. Groundwater was generally encountered at a depth of about 5'-6' below grade and soils were excavated to approximately 2'-3' below the water table to insure removal of all soil impacts.

D: Monitor Well MW#4 Location

This well was placed in the center of the previously identified release area associated with the 400 barrel above grade tank, originally investigated and remediated in May, 2012. The monitor well was installed to quantify residual water quality post remediation.

E: Monitor Well Sampling Subsequent to Installation

The monitor wells were sampled on August 17, 2013 and analytical testing results were reported at below regulatory standards for all constituents. They were re-sampled on April 2, 2018 to confirm water quality (again, all constituents tested below regulatory standards) prior to abandonment, which was requested by the private surface owner. Both sets of laboratory analytical results are attached.



LEGEND

N

8.7 ppm — Soil Sample Test Points with residual TPH values

0 50 100 Feet

SITE FIGURE BP ** Nye LS 1A ** (0)23-T31N-R11W			BLAGG ENGINEERING, INC.
DATE: 10/4/2012	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199

Soil Analytical Data Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 01, 2012

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: NYE LS 1A OrderNo.: 1209928

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 11 sample(s) on 9/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. 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. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1209928**
Date Reported: **10/1/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-001 **Matrix:** SOIL

Client Sample ID: East Side 4-pt Composite 3'-6'
Collection Date: 9/19/2012 9:30:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2012 3:40:13 PM
Surr: DNOP	109	77.6-140		%REC	1	9/22/2012 3:40:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/25/2012 6:34:15 PM
Surr: BFB	107	84-116		%REC	1	9/25/2012 6:34:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	9/25/2012 6:34:15 PM
Toluene	ND	0.048		mg/Kg	1	9/25/2012 6:34:15 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/25/2012 6:34:15 PM
Xylenes, Total	ND	0.096		mg/Kg	1	9/25/2012 6:34:15 PM
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	1	9/25/2012 6:34:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	9/24/2012 4:22:26 PM

Map ID: A

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-002 **Matrix:** SOIL

Client Sample ID: NE Corner 4'-5'
Collection Date: 9/19/2012 9:37:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	150	9.9		mg/Kg	1	9/22/2012 4:02:09 PM
Surr: DNOP	119	77.6-140		%REC	1	9/22/2012 4:02:09 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	400	9.9		mg/Kg	2	9/25/2012 7:03:03 PM
Surr: BFB	1300	84-116	S	%REC	2	9/25/2012 7:03:03 PM

Note: This area subsequently excavated

Map ID: B

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-003 **Matrix:** SOIL

Client Sample ID: North Wall 35' East of Well
Collection Date: 9/19/2012 9:58:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/22/2012 4:23:58 PM
Surr: DNOP	113	77.6-140		%REC	1	9/22/2012 4:23:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	8.7	4.7		mg/Kg	1	9/27/2012 3:14:28 PM
Surr: BFB	117	84-116	S	%REC	1	9/27/2012 3:14:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.047		mg/Kg	1	9/25/2012 8:00:38 PM
Toluene	ND	0.047		mg/Kg	1	9/25/2012 8:00:38 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/25/2012 8:00:38 PM
Xylenes, Total	1.1	0.094		mg/Kg	1	9/25/2012 8:00:38 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	9/25/2012 8:00:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	9/24/2012 2:55:33 PM

Map ID: C

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-004 **Matrix:** SOIL

Client Sample ID: North Wall 30' West of Well
Collection Date: 9/19/2012 10:17:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2012 5:07:45 PM
Surr: DNOP	113	77.6-140		%REC	1	9/22/2012 5:07:45 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	5.8	5.0		mg/Kg	1	9/25/2012 11:21:45 PM
Surr: BFB	105	84-116		%REC	1	9/25/2012 11:21:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/25/2012 11:21:45 PM
Toluene	ND	0.050		mg/Kg	1	9/25/2012 11:21:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/25/2012 11:21:45 PM
Xylenes, Total	1.2	0.10		mg/Kg	1	9/25/2012 11:21:45 PM
Surr: 4-Bromofluorobenzene	99.0	80-120		%REC	1	9/25/2012 11:21:45 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	9/24/2012 3:45:11 PM

Map ID: D

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-005 **Matrix:** SOIL

Client Sample ID: NW Wall 2-pt composite 3'-6'
Collection Date: 9/19/2012 10:38:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/22/2012 5:29:40 PM
Surr: DNOP	114	77.6-140		%REC	1	9/22/2012 5:29:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/25/2012 11:50:31 PM
Surr: BFB	101	84-116		%REC	1	9/25/2012 11:50:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	9/25/2012 11:50:31 PM
Toluene	ND	0.048		mg/Kg	1	9/25/2012 11:50:31 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/25/2012 11:50:31 PM
Xylenes, Total	ND	0.095		mg/Kg	1	9/25/2012 11:50:31 PM
Surr: 4-Bromofluorobenzene	99.6	80-120		%REC	1	9/25/2012 11:50:31 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	9/24/2012 4:47:15 PM

Map ID: E

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-006 **Matrix:** SOIL

Client Sample ID: West Wall 42' SW of Well 3'-6'
Collection Date: 9/19/2012 10:57:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	93	10		mg/Kg	1	9/22/2012 5:51:26 PM
Surr: DNOP	119	77.6-140		%REC	1	9/22/2012 5:51:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	900	250		mg/Kg	50	9/27/2012 3:43:14 PM
Surr: BFB	144	84-116	S	%REC	50	9/27/2012 3:43:14 PM

Note: This area subsequently excavated

Map ID: F

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
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.

CLIENT: Blagg Engineering
Client Sample ID: West Area 2-pt composite 3'-6'
Project: NYE LS 1A
Collection Date: 9/19/2012 11:17:00 AM
Lab ID: 1209928-007
Matrix: SOIL
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	23	9.6		mg/Kg	1	9/22/2012 6:13:24 PM
Surr: DNOP	117	77.6-140		%REC	1	9/22/2012 6:13:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	6.9	4.8		mg/Kg	1	9/26/2012 1:16:47 AM
Surr: BFB	163	84-116	S	%REC	1	9/26/2012 1:16:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	9/26/2012 1:16:47 AM
Toluene	ND	0.048		mg/Kg	1	9/26/2012 1:16:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2012 1:16:47 AM
Xylenes, Total	ND	0.095		mg/Kg	1	9/26/2012 1:16:47 AM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	9/26/2012 1:16:47 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	9/24/2012 3:32:47 PM

Map ID: G

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-008 **Matrix:** SOIL

Client Sample ID: West Center Wall 2-pt composite
Collection Date: 9/19/2012 11:40:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/22/2012 6:35:13 PM
Surr: DNOP	117	77.6-140		%REC	1	9/22/2012 6:35:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	9.4	4.8		mg/Kg	1	9/27/2012 4:11:58 PM
Surr: BFB	121	84-116	S	%REC	1	9/27/2012 4:11:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	9/26/2012 1:45:27 AM
Toluene	ND	0.048		mg/Kg	1	9/26/2012 1:45:27 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2012 1:45:27 AM
Xylenes, Total	ND	0.095		mg/Kg	1	9/26/2012 1:45:27 AM
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	9/26/2012 1:45:27 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	15		mg/Kg	10	9/24/2012 2:43:09 PM

Map ID: H

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-009 **Matrix:** SOIL

Client Sample ID: West Wall South Hot Spot
Collection Date: 9/19/2012 11:50:00 AM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	280	10		mg/Kg	1	9/22/2012 6:57:08 PM
Surr: DNOP	124	77.6-140		%REC	1	9/22/2012 6:57:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	530	24		mg/Kg	5	9/26/2012 2:14:10 AM
Surr: BFB	812	84-116	S	%REC	5	9/26/2012 2:14:10 AM

Note: This area subsequently excavated

Map ID: I

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-010 **Matrix:** SOIL

Client Sample ID: South Wall 4-pt composite 3'-6'
Collection Date: 9/19/2012 12:08:00 PM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/22/2012 7:18:49 PM
Surr: DNOP	106	77.6-140		%REC	1	9/22/2012 7:18:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/26/2012 3:11:45 AM
Surr: BFB	126	84-116	S	%REC	1	9/26/2012 3:11:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	9/26/2012 3:11:45 AM
Toluene	ND	0.048		mg/Kg	1	9/26/2012 3:11:45 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/26/2012 3:11:45 AM
Xylenes, Total	ND	0.097		mg/Kg	1	9/26/2012 3:11:45 AM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	9/26/2012 3:11:45 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	15	15		mg/Kg	10	9/26/2012 1:37:11 PM

Map ID: J

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1209928-011 **Matrix:** SOIL

Client Sample ID: SW Corner-West Side 2-pt comp
Collection Date: 9/19/2012 12:24:00 PM
Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/23/2012 8:48:31 PM
Surr: DNOP	111	77.6-140		%REC	1	9/23/2012 8:48:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/26/2012 3:40:31 AM
Surr: BFB	116	84-116		%REC	1	9/26/2012 3:40:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	9/26/2012 3:40:31 AM
Toluene	ND	0.049		mg/Kg	1	9/26/2012 3:40:31 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/26/2012 3:40:31 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/26/2012 3:40:31 AM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	9/26/2012 3:40:31 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	15	15		mg/Kg	10	9/24/2012 7:28:36 PM

Map ID: K

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
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#: **1209928**

01-Oct-12

Client: Blagg Engineering

Project: NYE LS 1A

Sample ID	**MB-3890**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**3890**	RunNo:	**5743**					
Prep Date:	**9/24/2012**	Analysis Date:	**9/24/2012**	SeqNo:	**165130**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-3890**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**3890**	RunNo:	**5743**					
Prep Date:	**9/24/2012**	Analysis Date:	**9/24/2012**	SeqNo:	**165131**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209928**

01-Oct-12

Client: Blagg Engineering

Project: NYE LS 1A

Sample ID **MB-3878**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **3878**	RunNo: **5690**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163494** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		109	77.6	140			

Sample ID **LCS-3878**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **3878**	RunNo: **5690**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	70.3	52.6	130			
Surr: DNOP	4.5		5.000		89.7	77.6	140			

Sample ID **MB-3882**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **3882**	RunNo: **5697**
Prep Date: **9/22/2012**	Analysis Date: **9/23/2012**	SeqNo: **163829** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		109	77.6	140			

Sample ID **LCS-3882**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **3882**	RunNo: **5697**
Prep Date: **9/22/2012**	Analysis Date: **9/23/2012**	SeqNo: **163830** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	69.6	52.6	130			
Surr: DNOP	4.7		5.000		93.5	77.6	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209928**

01-Oct-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-3879**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **3879**	RunNo: **5692**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163520** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.2	84	116			

Sample ID **LCS-3879**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **3879**	RunNo: **5692**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163521** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	74	117			
Surr: BFB	1000		1000		101	84	116			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165877** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		98.3	84	116			

Sample ID **2.5UG GRO LCSB**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165878** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		105	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209928**

01-Oct-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-3879**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **3879**	RunNo: **5692**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163543** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID **LCS-3879**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **3879**	RunNo: **5692**
Prep Date: **9/21/2012**	Analysis Date: **9/22/2012**	SeqNo: **163544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.0	76.3	117			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	77	116			
Xylenes, Total	3.0	0.10	3.000	0	99.3	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165902** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165903** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1209928

Received by/date: LM 09/21/12

Logged By: **Michelle Garcia** 9/21/2012 10:00:00 AM Michelle Garcia

Completed By: **Michelle Garcia** 9/21/2012 10:22:17 AM Michelle Garcia

Reviewed By: JO 09/21/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. 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: _____

18. Additional remarks:

19. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGINEERING INC.
BP AMERICA
Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413
Phone #: 505-632-1199
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 5-DAYS
Project Name: NYE LS 1A
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
On Ice: ☒ Yes ☐ No
Sample Temperature: 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1209928	BTEX + ~~MTBE + TMB~~'s (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
9/19/12	0930	SOIL	EAST SIDE 4-pt composite 3'-6'	4oz x1	COOL	-001	X		X									X				
"	0937	"	NE CORNER 4'-5'	"	"	-002			X													
"	0958	"	NORTH WALL 35' EAST OF well	"	"	-003	X		X									X				
"	1017	"	NORTH WALL 30' WEST OF well	"	"	-004	X		X									X				
"	1038	"	NW WALL 2-pt composite 3'-6'	"	"	-005	X		X									X				
"	1054	"	WEST WALL 42' SW OF well 3'-6'	"	"	-006			X													
"	1117	"	WEST AREA 2-Pt composite 3'-6'	"	"	-007	X		X									X				
"	1140	"	WEST CENTER WALL 2-pt composite 3'-6'	"	"	-008	X		X									X				
"	1150	"	WEST WALL SOUTH HOT SPOT	"	"	-009			X													
"	1208	"	SOUTH WALL 4-pt composite 3'-6'	"	"	-010	X		X									X				
"	1224	"	SW CORNER-WEST SIDE 2-pt composite	"	"	-011	X		X									X				

Date	Time	Relinquished by:	Received by:	Date	Time
9/20/12	1402	Jeff Blagg	Christine Walters	9/20/12	1402
9/20/12	1751	Christine Walters		09/21/12	1000

Remarks: GRO & DRO ON 8015B
BILL BLAGG
INCLUDE JEFF PEACE (BP) with E-MAIL

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 09, 2012

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: NYE LS 1A OrderNo.: 1210344

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. 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. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1210344**
Date Reported: **10/9/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1210344-001 **Matrix:** SOIL

Client Sample ID: TH 40'N82.5E
Collection Date: 10/4/2012 9:35:00 AM
Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/6/2012 2:37:10 PM
Surr: DNOP	110	77.6-140		%REC	1	10/6/2012 2:37:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/7/2012 4:07:46 AM
Surr: BFB	101	84-116		%REC	1	10/7/2012 4:07:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	10/7/2012 4:07:46 AM
Toluene	ND	0.049		mg/Kg	1	10/7/2012 4:07:46 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/7/2012 4:07:46 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/7/2012 4:07:46 AM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/7/2012 4:07:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	7.5		mg/Kg	5	10/9/2012 11:16:08 AM

Map ID: L

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1210344-002 **Matrix:** SOIL

Client Sample ID: TH32'S53E
Collection Date: 10/4/2012 9:49:00 AM
Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/6/2012 3:52:31 PM
Surr: DNOP	104	77.6-140		%REC	1	10/6/2012 3:52:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/7/2012 5:34:05 AM
Surr: BFB	105	84-116		%REC	1	10/7/2012 5:34:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	10/7/2012 5:34:05 AM
Toluene	ND	0.048		mg/Kg	1	10/7/2012 5:34:05 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/7/2012 5:34:05 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/7/2012 5:34:05 AM
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	10/7/2012 5:34:05 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	7.5		mg/Kg	5	10/9/2012 11:28:33 AM

Map ID: M

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1210344-003 **Matrix:** SOIL

Client Sample ID: TH84'S44W
Collection Date: 10/4/2012 10:03:00 AM
Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/6/2012 4:17:38 PM
Surr: DNOP	103	77.6-140		%REC	1	10/6/2012 4:17:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/7/2012 6:02:51 AM
Surr: BFB	101	84-116		%REC	1	10/7/2012 6:02:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.047		mg/Kg	1	10/7/2012 6:02:51 AM
Toluene	ND	0.047		mg/Kg	1	10/7/2012 6:02:51 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/7/2012 6:02:51 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/7/2012 6:02:51 AM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/7/2012 6:02:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	8.1	7.5		mg/Kg	5	10/9/2012 9:11:58 AM

Map ID: N

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1210344-004 **Matrix:** SOIL

Client Sample ID: TH106'S28W
Collection Date: 10/4/2012 10:13:00 AM
Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 5:07:51 PM
Surr: DNOP	102	77.6-140		%REC	1	10/6/2012 5:07:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/7/2012 6:31:36 AM
Surr: BFB	101	84-116		%REC	1	10/7/2012 6:31:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	10/7/2012 6:31:36 AM
Toluene	ND	0.048		mg/Kg	1	10/7/2012 6:31:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/7/2012 6:31:36 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/7/2012 6:31:36 AM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	10/7/2012 6:31:36 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	7.5		mg/Kg	5	10/9/2012 11:40:57 AM

Map ID: O

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1210344-005 **Matrix:** SOIL

Client Sample ID: TH125'S33E
Collection Date: 10/4/2012 10:25:00 AM
Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 5:33:11 PM
Surr: DNOP	101	77.6-140		%REC	1	10/6/2012 5:33:11 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	14	4.9		mg/Kg	1	10/7/2012 7:00:24 AM
Surr: BFB	176	84-116	S	%REC	1	10/7/2012 7:00:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.049		mg/Kg	1	10/7/2012 7:00:24 AM
Toluene	ND	0.049		mg/Kg	1	10/7/2012 7:00:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/7/2012 7:00:24 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/7/2012 7:00:24 AM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	10/7/2012 7:00:24 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	7.5		mg/Kg	5	10/9/2012 11:53:21 AM

Map ID: P

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
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.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1210344-006 **Matrix:** SOIL

Client Sample ID: HA83'S40E
Collection Date: 10/4/2012 10:52:00 AM
Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 5:58:17 PM
Surr: DNOP	105	77.6-140		%REC	1	10/6/2012 5:58:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/7/2012 7:29:08 AM
Surr: BFB	109	84-116		%REC	1	10/7/2012 7:29:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.048		mg/Kg	1	10/7/2012 7:29:08 AM
Toluene	ND	0.048		mg/Kg	1	10/7/2012 7:29:08 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/7/2012 7:29:08 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/7/2012 7:29:08 AM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	10/7/2012 7:29:08 AM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	7.5		mg/Kg	5	10/9/2012 12:05:46 PM

Map ID: Q

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID	**MB-4165**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**4165**	RunNo:	**6085**				
Prep Date:	**10/8/2012**	Analysis Date:	**10/9/2012**	SeqNo:	**175561**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-4165**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**4165**	RunNo:	**6085**				
Prep Date:	**10/8/2012**	Analysis Date:	**10/9/2012**	SeqNo:	**175562**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	101	90	110			

Sample ID	**1210357-001AMS**	SampType:	**MS**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**BatchQC**	Batch ID:	**4165**	RunNo:	**6085**				
Prep Date:	**10/8/2012**	Analysis Date:	**10/9/2012**	SeqNo:	**175578**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	55	15	15.00	37.92	114	64.4	117			

Sample ID	**1210357-001AMSD**	SampType:	**MSD**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**BatchQC**	Batch ID:	**4165**	RunNo:	**6085**				
Prep Date:	**10/8/2012**	Analysis Date:	**10/9/2012**	SeqNo:	**175579**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	55	15	15.00	37.92	115	64.4	117	0.534	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-4147**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **4147**	RunNo: **6027**
Prep Date: **10/5/2012**	Analysis Date: **10/6/2012**	SeqNo: **173596** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		101	77.6	140			

Sample ID **MB-4148**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **4148**	RunNo: **6027**
Prep Date: **10/5/2012**	Analysis Date: **10/6/2012**	SeqNo: **173597** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	77.6	140			

Sample ID **LCS-4147**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **4147**	RunNo: **6027**
Prep Date: **10/5/2012**	Analysis Date: **10/6/2012**	SeqNo: **173598** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	69.4	52.6	130			
Surr: DNOP	4.3		5.000		85.4	77.6	140			

Sample ID **LCS-4148**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **4148**	RunNo: **6027**
Prep Date: **10/5/2012**	Analysis Date: **10/6/2012**	SeqNo: **173599** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.4	77.6	140			

Sample ID **1210279-012CMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **4138**	RunNo: **6027**
Prep Date: **10/5/2012**	Analysis Date: **10/7/2012**	SeqNo: **173631** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.128		79.6	77.6	140			

Sample ID **1210344-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **TH 40'N82.5E**	Batch ID: **4147**	RunNo: **6027**
Prep Date: **10/5/2012**	Analysis Date: **10/6/2012**	SeqNo: **173632** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.7	48.31	0	72.7	57.2	146			
Surr: DNOP	4.4		4.831		90.2	77.6	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Client: Blagg Engineering

Project: NYE LS 1A

Sample ID	**1210279-012CMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015B: Diesel Range Organics**				
Client ID:	**BatchQC**	Batch ID:	**4138**		RunNo:	**6027**				
Prep Date:	**10/5/2012**	Analysis Date:	**10/7/2012**		SeqNo:	**173633**	Units:	**%REC**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.097		77.7	77.6	140	0	0	

Sample ID	**1210344-001AMSD**	SampType:	**MSD**		TestCode:	**EPA Method 8015B: Diesel Range Organics**				
Client ID:	**TH 40'N82.5E**	Batch ID:	**4147**		RunNo:	**6027**				
Prep Date:	**10/5/2012**	Analysis Date:	**10/6/2012**		SeqNo:	**173634**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	51.39	0	70.5	57.2	146	3.11	24.5	
Surr: DNOP	4.6		5.139		88.9	77.6	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID	**MB-4146**	SampType: **MBLK**		TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**PBS**	Batch ID: **4146**		RunNo: **6045**					
Prep Date:	**10/5/2012**	Analysis Date: **10/7/2012**		SeqNo: **174157**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	84	116			

Sample ID	**LCS-4146**	SampType: **LCS**		TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**LCSS**	Batch ID: **4146**		RunNo: **6045**					
Prep Date:	**10/5/2012**	Analysis Date: **10/7/2012**		SeqNo: **174158**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	74	117			
Surr: BFB	1100		1000		108	84	116			

Sample ID	**1210321-001AMS**	SampType: **MS**		TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**BatchQC**	Batch ID: **4146**		RunNo: **6045**					
Prep Date:	**10/5/2012**	Analysis Date: **10/6/2012**		SeqNo: **174160**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.63	1.166	104	70	130			
Surr: BFB	1100		985.2		107	84	116			

Sample ID	**1210321-001AMSD**	SampType: **MSD**		TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**BatchQC**	Batch ID: **4146**		RunNo: **6045**					
Prep Date:	**10/5/2012**	Analysis Date: **10/6/2012**		SeqNo: **174161**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.92	1.166	99.6	70	130	6.78	22.1	
Surr: BFB	1000		956.9		110	84	116	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **MB-4146**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **4146**	RunNo: **6045**
Prep Date: **10/5/2012**	Analysis Date: **10/7/2012**	SeqNo: **174190** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID **LCS-4146**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **4146**	RunNo: **6045**
Prep Date: **10/5/2012**	Analysis Date: **10/7/2012**	SeqNo: **174191** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	76.3	117			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	77	116			
Xylenes, Total	3.2	0.10	3.000	0	108	76.7	117			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID **1210344-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TH 40'N82.5E**	Batch ID: **4146**	RunNo: **6045**
Prep Date: **10/5/2012**	Analysis Date: **10/7/2012**	SeqNo: **174193** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.049	0.9794	0.005819	87.4	67.2	113			
Toluene	0.86	0.049	0.9794	0	88.0	62.1	116			
Ethylbenzene	0.88	0.049	0.9794	0	90.0	67.9	127			
Xylenes, Total	2.6	0.098	2.938	0	89.7	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9794		114	80	120			

Sample ID **1210344-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TH 40'N82.5E**	Batch ID: **4146**	RunNo: **6045**
Prep Date: **10/5/2012**	Analysis Date: **10/7/2012**	SeqNo: **174194** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.047	0.9337	0.005819	87.3	67.2	113	4.85	14.3	
Toluene	0.82	0.047	0.9337	0	88.0	62.1	116	4.86	15.9	
Ethylbenzene	0.84	0.047	0.9337	0	89.8	67.9	127	5.00	14.4	
Xylenes, Total	2.5	0.093	2.801	0	88.9	60.6	134	5.70	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9337		115	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1210344

Received by/date: LM 10/05/12

Logged By: **Anne Thorne** 10/5/2012 10:10:00 AM Anne Thorne

Completed By: **Anne Thorne** 10/5/2012 Anne Thorne

Reviewed By:

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. 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: _____

18. Additional remarks:

19. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Not Present			

Chain-of-Custody Record

Client: BLAGG ENGINEERING INC.
BP AMERICA
Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413
Phone #: 505-632-1199
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: BY WED 10/10/2012
☐ Standard ☒ Rush
Project Name: NYE LS 1A
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1210344	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
9/4/12	0935	SOIL	TH 40'N82½E	4 oz x1	COOL	-001	X		X									X				
"	0949	"	TH32'S53E	"	"	-002	X		X									X				
"	1003	"	TH84'S44W	"	"	-003	X		X									X				
"	1013	"	TH106'S28W	"	"	-004	X		X									X				
"	1025	"	TH125'S33E	"	"	-005	X		X									X				
"	1052	"	HA83'S40E	"	"	-006	X		X									X				

Date: 10/4/12 Time: 1418 Relinquished by: Jeff Blagg
Received by: Christine Walters Date: 10/4/12 Time: 1418
Date: 10/4/12 Time: 1708 Relinquished by: Christine Walters
Received by: 10/05/12 1010

Remarks: GRO + DRO ON 8015
BILL BLAGG
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.

Groundwater Monitor Well
Laboratory Analytical Data Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 03, 2013

Nelson Velez

Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-3489
FAX (505) 632-3903

RE: NYE LS #1A OrderNo.: 1308871

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/20/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1308871**
Date Reported: **9/3/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-001

Client Sample ID: MW #1
Collection Date: 8/17/2013 7:40:00 AM
Matrix: AQUEOUS **Received Date:** 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 12:18:43 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.71	0.10		mg/L	1	8/21/2013 11:30:25 AM	R12802
Chloride	27	10		mg/L	20	8/21/2013 12:07:39 PM	R12802
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/21/2013 11:17:40 PM	R12802
Sulfate	81	10		mg/L	20	8/21/2013 12:07:39 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.65	0.020	*	mg/L	1	8/26/2013 8:13:10 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	750	200	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-002 **Matrix:** AQUEOUS

Client Sample ID: MW #2
Collection Date: 8/17/2013 8:30:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 12:48:46 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.42	0.10		mg/L	1	8/21/2013 12:20:04 PM	R12802
Chloride	44	10		mg/L	20	8/21/2013 12:32:29 PM	R12802
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/21/2013 11:30:05 PM	R12802
Sulfate	540	10		mg/L	20	8/21/2013 12:32:29 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	3.6	0.10	*	mg/L	5	8/26/2013 8:25:02 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	1240	200	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-003
Matrix: AQUEOUS
Client Sample ID: MW #3
Collection Date: 8/17/2013 10:00:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 1:19:00 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.57	0.10		mg/L	1	8/21/2013 1:22:07 PM	R12802
Chloride	22	10		mg/L	20	8/21/2013 1:34:32 PM	R12802
Nitrate+Nitrite as N	4.9	1.0		mg/L	5	8/21/2013 11:42:30 PM	R12802
Sulfate	120	10		mg/L	20	8/21/2013 1:34:32 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.042	0.020		mg/L	1	8/26/2013 8:29:06 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	485	100		mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-004 **Matrix:** AQUEOUS

Client Sample ID: MW #4
Collection Date: 8/17/2013 10:45:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 1:49:18 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.49	0.10		mg/L	1	8/21/2013 1:46:56 PM	R12802
Chloride	23	10		mg/L	20	8/21/2013 1:59:20 PM	R12802
Nitrate+Nitrite as N	5.1	1.0		mg/L	5	8/21/2013 11:54:55 PM	R12802
Sulfate	130	10		mg/L	20	8/21/2013 1:59:20 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	0.057	0.020		mg/L	1	8/26/2013 8:37:20 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	575	100	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-005
Matrix: AQUEOUS
Client Sample ID: MW #5
Collection Date: 8/17/2013 12:10:00 PM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 2:19:24 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.65	0.10		mg/L	1	8/21/2013 2:11:45 PM	R12802
Chloride	23	10		mg/L	20	8/21/2013 2:24:09 PM	R12802
Nitrate+Nitrite as N	1.3	1.0		mg/L	5	8/22/2013 12:07:20 AM	R12802
Sulfate	260	10		mg/L	20	8/21/2013 2:24:09 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	ND	0.020		mg/L	1	8/26/2013 8:45:30 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	684	40.0	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-006 **Matrix:** AQUEOUS

Client Sample ID: MW #6
Collection Date: 8/17/2013 11:30:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 2:49:39 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.46	0.10		mg/L	1	8/21/2013 2:36:33 PM	R12802
Chloride	20	10		mg/L	20	8/21/2013 2:48:58 PM	R12802
Nitrate+Nitrite as N	1.7	1.0		mg/L	5	8/22/2013 12:19:44 AM	R12802
Sulfate	110	10		mg/L	20	8/21/2013 2:48:58 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	ND	0.020		mg/L	1	8/26/2013 9:05:51 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	444	40.0		mg/L	1	8/23/2013 8:19:00 AM	8968

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

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 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS #1A
Lab ID: 1308871-007
Matrix: AQUEOUS
Client Sample ID: MW #7
Collection Date: 8/17/2013 9:10:00 AM
Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Xylenes, Total	2.9	2.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Surr: 4-Bromofluorobenzene	107	69.4-129		%REC	1	8/21/2013 3:19:53 PM	R12796
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.59	0.10		mg/L	1	8/21/2013 3:01:23 PM	R12802
Chloride	24	10		mg/L	20	8/21/2013 3:13:47 PM	R12802
Nitrate+Nitrite as N	2.4	1.0		mg/L	5	8/22/2013 12:32:08 AM	R12802
Sulfate	270	10		mg/L	20	8/21/2013 3:13:47 PM	R12802
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**	
Iron	ND	0.020		mg/L	1	8/26/2013 9:14:02 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	702	40.0	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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 for VOA and TOC only.
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#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R12893**	RunNo: **12893**
Prep Date:	Analysis Date: **8/26/2013**	SeqNo: **367533** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R12893**	RunNo: **12893**
Prep Date:	Analysis Date: **8/26/2013**	SeqNo: **367534** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.49	0.020	0.5000	0	97.7	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364935** 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								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS-b**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364937** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.1	90	110			
Chloride	4.6	0.50	5.000	0	93.0	90	110			
Sulfate	9.5	0.50	10.00	0	94.9	90	110			
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.6	90	110			

Sample ID **1308871-001BMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW #1**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364939** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.2	0.10	0.5000	0.7095	91.7	76.9	114			

Sample ID **1308871-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **MW #1**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364940** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.7095	86.6	76.9	114	2.20	20	

Sample ID **1308898-001BMS**	SampType: **MS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364962** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.6796	91.1	76.9	114			
Chloride	9.8	0.50	5.000	4.761	101	89.9	119			
Sulfate	28	0.50	10.00	17.48	107	90.1	116			
Nitrate+Nitrite as N	3.6	0.20	3.500	0.2331	95.9	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **1308898-001BMSD**	SampType: **MSD**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364963** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.6796	92.2	76.9	114	0.466	20	
Chloride	9.8	0.50	5.000	4.761	101	89.9	119	0.339	20	
Sulfate	28	0.50	10.00	17.48	108	90.1	116	0.204	20	
Nitrate+Nitrite as N	3.6	0.20	3.500	0.2331	95.7	90	110	0.131	20	

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/22/2013**	SeqNo: **365005** 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								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R12802**	RunNo: **12802**
Prep Date:	Analysis Date: **8/22/2013**	SeqNo: **365006** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	103	90	110			
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Sulfate	9.9	0.50	10.00	0	99.5	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R12796**	RunNo: **12796**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364721** 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	21		20.00		107	69.4	129			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R12796**	RunNo: **12796**
Prep Date:	Analysis Date: **8/21/2013**	SeqNo: **364722** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.7	80	120			
Toluene	19	1.0	20.00	0	96.8	80	120			
Ethylbenzene	19	1.0	20.00	0	96.8	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	69.4	129			

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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1308871**

03-Sep-13

Client: Blagg Engineering
Project: NYE LS #1A

Sample ID	**MB-8968**	SampType:	**MBLK**		TestCode:	**SM2540C MOD: Total Dissolved Solids**				
Client ID:	**PBW**	Batch ID:	**8968**		RunNo:	**12829**				
Prep Date:	**8/21/2013**	Analysis Date:	**8/23/2013**		SeqNo:	**365551**	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-8968**	SampType:	**LCS**		TestCode:	**SM2540C MOD: Total Dissolved Solids**				
Client ID:	**LCSW**	Batch ID:	**8968**		RunNo:	**12829**				
Prep Date:	**8/21/2013**	Analysis Date:	**8/23/2013**		SeqNo:	**365552**	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			

Sample ID	**1308726-002EMS**	SampType:	**MS**		TestCode:	**SM2540C MOD: Total Dissolved Solids**				
Client ID:	**BatchQC**	Batch ID:	**8968**		RunNo:	**12829**				
Prep Date:	**8/21/2013**	Analysis Date:	**8/23/2013**		SeqNo:	**365556**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	8160	40.0	2000	6104	103	80	120			

Sample ID	**1308726-002EMSD**	SampType:	**MSD**		TestCode:	**SM2540C MOD: Total Dissolved Solids**				
Client ID:	**BatchQC**	Batch ID:	**8968**		RunNo:	**12829**				
Prep Date:	**8/21/2013**	Analysis Date:	**8/23/2013**		SeqNo:	**365557**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	8090	40.0	2000	6104	99.3	80	120	0.862	5	

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 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG | Work Order Number: 1308871 | RcptNo: 1

Received by/date: LM 08/20/13

Logged By: Anne Thorne 8/20/2013 9:50:00 AM Anne Thorne

Completed By: Anne Thorne 8/20/2013 Anne Thorne

Reviewed By: MG 08/21/13

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?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° 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 ☐	

# of preserved bottles checked for pH: 14 (<2 or >12 unless noted)

Adjusted? NO

Checked by:

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: NYE LS # 1A

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONME TAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308871	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,~~NO3,NO2,PO4,~~SO4)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N/~~Nitrite N~~			Grab sample	5 pt. composite sample	
8/17/13	0740	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-001	✓													✓		
8/17/13	0740	WATER	MW # 1	500 ml - 1	Cool	-001								✓	✓					✓		
8/17/13	0740	WATER	MW # 1	125 ml - 1	HNO_3 & Cool	-001										✓				✓		
8/17/13	0740	WATER	MW # 1	125 ml - 1	H_2SO_4	-001											✓			✓		
8/17/13	0830	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-002	✓													✓		
8/17/13	0830	WATER	MW # 2	500 ml - 1	Cool	-002								✓	✓					✓		
8/17/13	0830	WATER	MW # 2	125 ml - 1	HNO_3 & Cool	-002										✓				✓		
8/17/13	0830	WATER	MW # 2	125 ml - 1	H_2SO_4	-002											✓			✓		
8/17/13	1000	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-003	✓													✓		
8/17/13	1000	WATER	MW # 3	500 ml - 1	Cool	-003								✓	✓					✓		
8/17/13	1000	WATER	MW # 3	125 ml - 1	HNO_3 & Cool	-003										✓				✓		
8/17/13	1000	WATER	MW # 3	125 ml - 1	H_2SO_4	-003											✓			✓		

Date	Time	Relinquished by:	Received by:	Date	Time
8/19/13	937		Christine Walters	8/19/13	937
8/19/13	1600	Christine Walters		08/20/13	0950

Remarks:

Pg - 1 OF 3

Send invoice to :
Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

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.

Chain of Custody Record

Client:	BLAGG ENGR. / BP AMERICA
Mailing Address:	P.O. BOX 87
	BLOOMFIELD, NM 87413
Phone #:	(505) 632-1199
email or Fax#:	
QA/QC Package:	☑ Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other ____
☐ EDD (Type)	____

☑ Standard ☐ Rush ____

Project Name: **NYE LS # 1A**

Project #:

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ** gw

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308871	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,~~NO3,NO2,PO4~~,SO4)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N / ~~Nitrite N~~			Grab sample	5 pt. composite sample
8/17/13	1045	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-004	✓													✓	
8/17/13	1045	WATER	MW # 4	500 ml - 1	Cool	-004								✓	✓					✓	
8/17/13	1045	WATER	MW # 4	125 ml - 1	HNO_3 & Cool	-004										✓				✓	
8/17/13	1045	WATER	MW # 4	125 ml - 1	H_2SO_4	-004											✓			✓	
8/17/13	1210	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-005	✓													✓	
8/17/13	1210	WATER	MW # 5	500 ml - 1	Cool	-005								✓	✓					✓	
8/17/13	1210	WATER	MW # 5	125 ml - 1	HNO_3 & Cool	-005										✓				✓	
8/17/13	1210	WATER	MW # 5	125 ml - 1	H_2SO_4	-005											✓			✓	
8/17/13	1130	WATER	MW # 6	40 ml VOA - 2	HCl & Cool	-006	✓													✓	
8/17/13	1130	WATER	MW # 6	500 ml - 1	Cool	-006								✓	✓					✓	
8/17/13	1130	WATER	MW # 6	125 ml - 1	HNO_3 & Cool	-006										✓				✓	
8/17/13	1130	WATER	MW # 6	125 ml - 1	H_2SO_4	-006											✓			✓	

	Time	Relinquished by:	Received by:	Date	Time
8/19/13	937		Christine Walker	8/19/13	937
8/19/13	1400	Christine Walker		8/20/13	0850

Remarks:

Pg. 2 of 3

Send invoice to :

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

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.

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn Around Time:
☑ Standard ☐ Rush

Project Name: NYE LS # 1A

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308871	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,~~NO3,NO2,PO4,SO4~~)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N + ~~Nitrite N~~			Grab sample	5 pt. composite sample
8/17/13	0910	WATER	MW # 7	40 ml VOA - 2	HCl & Cool	-007	✓													✓	
8/17/13	0910	WATER	MW # 7	500 ml - 1	Cool	-007								✓	✓					✓	
8/17/13	0910	WATER	MW # 7	125 ml - 1	HNO_3 & Cool	-007										✓				✓	
8/17/13	0910	WATER	MW # 7	125 ml - 1	H_2SO_4	-007											✓			✓	

Date	Time	Relinquished by:	Received by:	Date	Time
8/19/13	937		Christine Walters	8/19/13	937
8/19/13	1600	Christine Walters		8/20/13	0950

Remarks: pg. 3 of 3

Send invoice to :
Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

HALL
ENVIRON ENTAL
ANALYSIS
LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 13, 2018

Steve Moskal
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: NYE LS 1A OrderNo.: 1804131

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/4/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1804131**
Date Reported: **4/13/2018**

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-001
Matrix: AQUEOUS
Client Sample ID: MW #1
Collection Date: 4/2/2018 10:10:00 AM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 4:14:40 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 4:14:40 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 4:14:40 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 4:14:40 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-001
Matrix: AQUEOUS
Client Sample ID: MW #1
Collection Date: 4/2/2018 10:10:00 AM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 4:14:40 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 4:14:40 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 4:14:40 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 4:14:40 AM	W50533
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	4/13/2018 4:14:40 AM	W50533
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	4/13/2018 4:14:40 AM	W50533
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	4/13/2018 4:14:40 AM	W50533
Surr: Toluene-d8	93.9	70-130		%Rec	1	4/13/2018 4:14:40 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-002
Matrix: AQUEOUS
Client Sample ID: MW #2
Collection Date: 4/2/2018 11:05:00 AM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 4:44:04 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 4:44:04 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 4:44:04 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 4:44:04 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-002
Matrix: AQUEOUS
Client Sample ID: MW #2
Collection Date: 4/2/2018 11:05:00 AM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 4:44:04 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 4:44:04 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 4:44:04 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 4:44:04 AM	W50533
Surr: 1,2-Dichloroethane-d4	93.2	70-130		%Rec	1	4/13/2018 4:44:04 AM	W50533
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	4/13/2018 4:44:04 AM	W50533
Surr: Dibromofluoromethane	93.6	70-130		%Rec	1	4/13/2018 4:44:04 AM	W50533
Surr: Toluene-d8	97.1	70-130		%Rec	1	4/13/2018 4:44:04 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-003
Matrix: AQUEOUS
Client Sample ID: MW #3
Collection Date: 4/2/2018 1:10:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 5:13:33 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 5:13:33 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 5:13:33 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 5:13:33 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-003
Matrix: AQUEOUS
Client Sample ID: MW #3
Collection Date: 4/2/2018 1:10:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 5:13:33 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 5:13:33 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 5:13:33 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 5:13:33 AM	W50533
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	4/13/2018 5:13:33 AM	W50533
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	4/13/2018 5:13:33 AM	W50533
Surr: Dibromofluoromethane	95.4	70-130		%Rec	1	4/13/2018 5:13:33 AM	W50533
Surr: Toluene-d8	97.7	70-130		%Rec	1	4/13/2018 5:13:33 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-004
Matrix: AQUEOUS
Client Sample ID: MW #4
Collection Date: 4/2/2018 2:08:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 5:42:52 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 5:42:52 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 5:42:52 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 5:42:52 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-004
Matrix: AQUEOUS
Client Sample ID: MW #4
Collection Date: 4/2/2018 2:08:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 5:42:52 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 5:42:52 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 5:42:52 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 5:42:52 AM	W50533
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	4/13/2018 5:42:52 AM	W50533
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	4/13/2018 5:42:52 AM	W50533
Surr: Dibromofluoromethane	92.9	70-130		%Rec	1	4/13/2018 5:42:52 AM	W50533
Surr: Toluene-d8	97.1	70-130		%Rec	1	4/13/2018 5:42:52 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-005
Matrix: AQUEOUS
Client Sample ID: MW #5
Collection Date: 4/2/2018 4:10:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 6:12:09 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 6:12:09 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 6:12:09 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 6:12:09 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Client Sample ID: MW #5
Project: NYE LS 1A
Collection Date: 4/2/2018 4:10:00 PM
Lab ID: 1804131-005
Matrix: AQUEOUS
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 6:12:09 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 6:12:09 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 6:12:09 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 6:12:09 AM	W50533
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	4/13/2018 6:12:09 AM	W50533
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	4/13/2018 6:12:09 AM	W50533
Surr: Dibromofluoromethane	92.8	70-130		%Rec	1	4/13/2018 6:12:09 AM	W50533
Surr: Toluene-d8	97.6	70-130		%Rec	1	4/13/2018 6:12:09 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-006
Matrix: AQUEOUS
Client Sample ID: MW #6
Collection Date: 4/2/2018 12:05:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 6:41:20 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 6:41:20 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 6:41:20 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 6:41:20 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-006
Matrix: AQUEOUS
Client Sample ID: MW #6
Collection Date: 4/2/2018 12:05:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 6:41:20 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 6:41:20 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 6:41:20 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 6:41:20 AM	W50533
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	4/13/2018 6:41:20 AM	W50533
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	4/13/2018 6:41:20 AM	W50533
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	4/13/2018 6:41:20 AM	W50533
Surr: Toluene-d8	94.6	70-130		%Rec	1	4/13/2018 6:41:20 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-007
Matrix: AQUEOUS
Client Sample ID: MW #7
Collection Date: 4/2/2018 3:05:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
Benzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Toluene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Ethylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Naphthalene	ND	2.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Acetone	ND	10		µg/L	1	4/13/2018 7:10:31 AM	W50533
Bromobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Bromoform	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Bromomethane	ND	3.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
2-Butanone	ND	10		µg/L	1	4/13/2018 7:10:31 AM	W50533
Carbon disulfide	ND	10		µg/L	1	4/13/2018 7:10:31 AM	W50533
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Chlorobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Chloroethane	ND	2.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Chloroform	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Chloromethane	ND	3.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Dibromomethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2018 7:10:31 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A
Lab ID: 1804131-007
Matrix: AQUEOUS
Client Sample ID: MW #7
Collection Date: 4/2/2018 3:05:00 PM
Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **DJF**	
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
2-Hexanone	ND	10		µg/L	1	4/13/2018 7:10:31 AM	W50533
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2018 7:10:31 AM	W50533
Methylene Chloride	ND	3.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
n-Butylbenzene	ND	3.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Styrene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Vinyl chloride	ND	1.0		µg/L	1	4/13/2018 7:10:31 AM	W50533
Xylenes, Total	ND	1.5		µg/L	1	4/13/2018 7:10:31 AM	W50533
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	4/13/2018 7:10:31 AM	W50533
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	4/13/2018 7:10:31 AM	W50533
Surr: Dibromofluoromethane	93.5	70-130		%Rec	1	4/13/2018 7:10:31 AM	W50533
Surr: Toluene-d8	95.2	70-130		%Rec	1	4/13/2018 7:10:31 AM	W50533

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804131**

13-Apr-18

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W50533**	RunNo: **50533**
Prep Date:	Analysis Date: **4/12/2018**	SeqNo: **1638999** 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								
Methyl tert-butyl ether (MTBE)	ND	1.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
1,2-Dichloroethane (EDC)	ND	1.0								
1,2-Dibromoethane (EDB)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Acetone	ND	10								
Bromobenzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	3.0								
2-Butanone	ND	10								
Carbon disulfide	ND	10								
Carbon Tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	2.0								
Chloroform	ND	1.0								
Chloromethane	ND	3.0								
2-Chlorotoluene	ND	1.0								
4-Chlorotoluene	ND	1.0								
cis-1,2-DCE	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
1,2-Dibromo-3-chloropropane	ND	2.0								
Dibromochloromethane	ND	1.0								
Dibromomethane	ND	1.0								
1,2-Dichlorobenzene	ND	1.0								
1,3-Dichlorobenzene	ND	1.0								
1,4-Dichlorobenzene	ND	1.0								
Dichlorodifluoromethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloropropane	ND	1.0								
1,3-Dichloropropane	ND	1.0								
2,2-Dichloropropane	ND	2.0								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804131**

13-Apr-18

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID **rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **W50533**	RunNo: **50533**
Prep Date:	Analysis Date: **4/12/2018**	SeqNo: **1638999** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.4	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		115	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.4	70	130			
Surr: Toluene-d8	9.7		10.00		96.9	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W50533**	RunNo: **50533**
Prep Date:	Analysis Date: **4/12/2018**	SeqNo: **1639000** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.7	70	130			
Toluene	18	1.0	20.00	0	90.2	70	130			
Chlorobenzene	19	1.0	20.00	0	93.1	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804131**

13-Apr-18

Client: Blagg Engineering

Project: NYE LS 1A

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **W50533**	RunNo: **50533**
Prep Date:	Analysis Date: **4/12/2018**	SeqNo: **1639000** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	19	1.0	20.00	0	96.7	70	130			
Trichloroethene (TCE)	17	1.0	20.00	0	86.0	70	130			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		97.7	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	9.4		10.00		93.6	70	130			
Surr: Toluene-d8	9.3		10.00		93.2	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG | Work Order Number: 1804131 | RcptNo: 1

Received By: Anne Thorne 4/4/2018 7:40:00 AM Anne Thorne
Completed By: Anne Thorne 4/4/2018 8:47:08 AM Anne Thorne
Reviewed By: ENM 4/4/18 Labeled By DDS

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: DDS 4/4/18 (<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

15. 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:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

Chain-of-Custody Record

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87**
BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name:
NYE LS # 1A

Project #:

Project Manager:
STEVE MOSKAL

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: .0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 804131	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Cation / Anion Balance	Total Dissolved Solids	8260B (VOA)	Nitrate N / Nitrite N	API Water (Include TDS, pH, conductivity)		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
4/2/18	1010	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-001										✓				✓		
4/2/18	1155	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-002										✓				✓		
4/2/18	1310	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-003										✓				✓		
4/2/18	1408	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-004										✓				✓		
4/2/18	1610	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-005										✓				✓		
4/2/18	1205	WATER	MW # 6	40 ml VOA - 2	HCl & Cool	-006										✓				✓		
4/2/18	1505	WATER	MW # 7	40 ml VOA - 2	HCl & Cool	-007										✓				✓		

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/3/18	1040			4/3/18	1040
4/3/18	1827			04/04/18	0740

Remarks:

BILL DIRECTLY TO BP:
200 Energy Court, Farmington, NM 87401 Attn.: Steve Moskal

WBS ELEMENT: L1-001CV-E:NYELS1A