<u>District I</u> 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

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

	Release Notification and Corrective Action											
						OPERA	ГOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co	mpany: B	P				Contact: Ste	ve Moskal					
Address: 38	0 Airport	Rd., Durango	, CO 813	303			No.: 505-330-91					
Facility Nan	ne: Nye L	S 001A				Facility Typ	e: Natural gas v	well				
Surface Ow	ner: Feder	al		Mineral C)wner:	Federal			API No	. 30045230)47	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		West Line	County: S	an Juan	
0	23	31N	11W	1,800	South		1,590	East				
		Latitu	de36.8	87987°		Longitude	-107.95668°					
				NAT	URE	OF REL	EASE					
Type of Relea							Release: unknow			Recovered: r		
Source of Rel	lease: Unkn	own – Holes i	n the botto	om of tank		0,000 000 000 000	lour of Occurrence	ce:		Hour of Dis	covery:	5/21/2012;
Was Immedia	ate Notice (Riven?				unknown If YES, To	Whom?		11:00AM			
Was immedia	no i totico (-	Yes	No 🛛 Not Ro	equired	11 1115, 10	Wildin.					
By Whom?						Date and H	lour:					
Was a Watero	course Reac	ched?				If YES, Vo	lume Impacting t	the Wat	ercourse.			
			Yes 🛚	No								
If a Watercou	rse was Im	pacted, Descri	be Fully.*									
desired wall t Engineering t determined.	hickness. Voo samples Additional	When the tank below the sur delineation wa	was remo face which as conduct	n Taken.* The ex wed for further in h resulted in GRO ed via trenching v en.* BP fully del ached report and	TPH of with no ineated	n evidence of a 500. Exca further impacted the impacted	possible condensivation of impacted to determined. To soil via excavation	ate leaked soils The tank	s below the was perform was replace	tank were formed, with mined.	ound. E inimal i	Blagg
regulations al public health should their or or the environ	or the environment. In a	are required to ronment. The ave failed to a	report an acceptance dequately CD accep	is true and comp ad/or file certain r se of a C-141 repo investigate and r tance of a C-141	release nort by the remediate	otifications as e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr the operator of	etive act eport" of reat to g respons	tions for relations for relations for relations for relations for control to the relationship for relationsh	eases which ieve the oper r, surface wa ompliance v	may en rator of ater, hur with any	danger liability nan health
Signature:	Harr VI	The					OIL CON	SERV	ATION	DIVISIO)XI/	-
Printed Name	e: Steve Mo	skal				Approved by	Environmental S	pecialis	st:	7 1	~	~//
Title: Field E	nvironment	al Coordinato	r			Approval Dat	e: 10/24/19	1	Expiration	Date:		
E-mail Addre	ess: steven.r	noskal@bp.co	m			Conditions of	Approval:			Attached		
Date: Februa	ary 27, 2017	1		e: 505-330-9179								
Attach Addit	tional Shee	ets If Necessa	ary	#115	KI	21774	8142					
				1.102	, (1007	0110					

NMOCD

MAR 0 1 2018

DISTRICT 111



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).

<u>July 17 – Oct 4, 2012</u> 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.

<u>July 29-30, 2013</u> 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.

<u>August 17, 2013</u> 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



F GURE 1

Remaining

Containment

System

Barrier



Animas River current flow trend ~ S16W

Animas River ~ 215 ft., N78W from well head WELL HEAD

95 bbl 15 ft. diameter low profile BGT

400 bbl production tank

IRRIGATION DITCH FLOW DIRECTION

ACCESS ROAD

80 FT.

METER RUN

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

40

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

05/12

CLIENT: BP		NEERING, INC. OMFIELD, NM 87413	API#: 30-095-23047
O dest less 1 1 1		32-1199	TANK ID (if applicable):
FIELD REPORT:		RELEASE INVESTIGATION Y OTHER:	PAGE#: _ l _ of _ /
SITE INFORMATIO	ON: SITE NAME: NYE LS	1A	DATE STARTED: 5-17-2012
QUAD/UNIT: O SEC: 23 TV	MP: 31N RNG: 11W PM:	NM CNTY: SJ ST: NM	DATE FINISHED: 5-17- 2012
	LEASE TYPE:		
LEASE #:	PROD. FORMATION: CON	TRACTOR: ELKhown (Yeomans	SPECIALIST(S): ICS
REFERENCE POIN	VT: WELL HEAD (W.H.) GPS CO	OORD: 36.87980 × 107.95	661 GLELEV .: 5689
1) 400 AST	GPS COORD.:	DISTANCE	BEARING FROM W.H.: 30 MOSE
2)	GPS COORD.:	DISTANCE	BEARING FROM W.H.; N55E
3)	GPS COORD.:	DISTANCE	/BEARING FROM W.H.:
4)	GPS COORD.:	DISTANCE	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR L	AB USED: HALL	OVM READING
1) SAMPLE ID: THIEZ	SAMPLE DATE: 5-17-12	SAMPLETIME: 0942 LAB ANALYSIS: TPH	Brex/ci 545
2) SAMPLE ID: THZEZ	SAMPLE DATE:	SAMPLETIME: 0950 LAB ANALYSIS:	477
3) SAMPLE ID: TH3 @ Z	SAMPLE DATE:	SAMPLETIME: 0953 LAB ANALYSIS:	244
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYSIS:	
MOISTURE: DRY (SLIGHTLY MOIST / MOIST	LOOSE (FIRM / DENSE / VERY DENSE	DENSITY (COHESIVE CLAYS & SILTS):	SOFT / FIRM / STIFF / VERY STIFF / HARD
EXCAVATION DIMENSIONS (if application depth to groundwater:	E-# OF PTS. VED: YES (NO) EXPLANATION - (NO) EXPLANATION - Potential HC Impacts Estimate 3 ± (able): R. X - R.		Coroundwater Depty.
ANY AREAS DISPLAYING WETNESS: YES / ADDITIONAL COMMENTS: EXCAVATION DIMENSIONS (if applic	E-# OF PTS. VED: YES (NO) EXPLANATION - (NO) EXPLANATION - Potential HC Impacts Estimate 3 ± (able): R. X - R.	X ft. cubic yerds AREST SURFACE WATER: < \(\frac{200'}{200'} \) NMC PLOT PLAN circle: attached 0\)	Growdward Depty. Gexcavated (if applicable): OCD TPH CLOSURE STD: 100 PPM OM CALIB. READ. = 51.9 ppm RF = 0.52 OM CALIB. GAS = 0845 ppm ME: 0845 am/pm DATE: 5-17-12
ANY AREAS DISPLAYING WETNESS: YES / ADDITIONAL COMMENTS: EXCAVATION DIMENSIONS (if applications) and depth to groundwater:	E-# OF PTS. VED: YES (NO) EXPLANATION - (NO) EXPLANATION - Potential HC Impacts Estimate 3 ± (able): R. X - R.	PLOT PLAN circle: attached ON FOOT PRINT FOOT PRINT ON THE ON THE Cubic yerds NMM ON THE CON THE THE THE THE ON THE THE THE THE THE THE THE TH	Growdward Dapty. George Allen Read = 51.9 ppm RF = 0.52 MCALIB. READ = 51.9 ppm RF = 0.52 MCALIB. GAS = 6845 ppm MECOSTS am/pm DATE 5-17-12 MISCELL. NOTES NOTES NOTES NOTES POTTUSE
ANY AREAS DISPLAYING WETNESS: YES / ADDITIONAL COMMENTS: EXCAVATION DIMENSIONS (if applications) and depth to groundwater:	E-# OF PTS. VED: YES (NO) EXPLANATION - (NO) EXPLANATION - Potential HC Impacts Estimate 3 ± (able): R. X - R.	PLOT PLAN circle: attached ON POST PRINT FOR PRINT THE ON THE Cubic yeards NMM ON THE THE THE THE THE THE THE TH	Excevered (if applicable): OCD TPH CLOSURE STD: 100 PPM OM CALIB. READ. = 51.9 ppm RF = 0.52 OM CALIB. GAS = 0845 ppm MECOSIS am/pm DATE: 5-17-12 MISCELL. NOTES NO: N[SIS778
ANY AREAS DISPLAYING WETNESS: YES / ADDITIONAL COMMENTS: EXCAVATION DIMENSIONS (if applice DEPTH TO GROUNDWATER: STANDARD AND ADDITIONAL SITE SKETCH	E - # OF PTS. VED: YES (NO) EXPLANATION	PLOT PLAN circle: attached ON FOOT PRINT FOOT PRINT THE Cubic yerds NMM PLOT PLAN circle: attached ON TILL TO THE THE THE THE THE THE THE THE	Corondustro Depty. Be excevated (if applicable): DCD TPH CLOSURE STD: 100 PPM AM CALIB. READ. = 51.9 ppm RF = 0.52 AM CALIB. GAS = 0845 ppm ME0845 am/pm DATE. 5-17-12 MISCELL. NOTES NO: N[515778 PO: 7164] PK: 833LACATIMC
ANY AREAS DISPLAYING WETNESS: YES // ADDITIONAL COMMENTS: EXCAVATION DIMENSIONS (if application of the property of the proper	E - # OF PTS. VED: YES (NO) EXPLANATION	PLOT PLAN circle: attached ON PLOT PLAN circle: attached ON POST PRINT POINT DESIGNATION: R.W. = RETAINING WALL: POINT DESIGNATION: R.W. = RETAINING WALL:	Growdwater Depty. George dwater Depty. George dwater Depty. George dwater Depty. AM CALIB. READ. = 51.9 ppm RF = 0.52 AM CALIB. GAS = 9845 ppm ME0845 am/pm DATE. 5-17-12 MISCELL. NOTES AUC N [515778 PO: 7164] PK: 833LACATIMC BGT Sidewalls Visible: Y / N / NA BGT Sidewalls Visible: Y / N / NA
ANY AREAS DISPLAYING WETNESS: YES // ADDITIONAL COMMENTS: EXCAVATION DIMENSIONS (if application of the property of the proper	E - # OF PTS. VED: YES (NO) EXPLANATION	PLOT PLAN circle: attached ON PLOT PLAN circle: attached ON POST PRINT POINT DESIGNATION: R.W. = RETAINING WALL: POINT DESIGNATION: R.W. = RETAINING WALL:	Growdwath Depty. George dwath

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

Collection Date: 5/17/2012 9:42:00 AM Received Date: 5/18/2012 10:00:00 AM

Client Sample ID: 400 AST TH1 @ 2'

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS	Sid tradegrament retered to a compare use of the Comparent to	A COLUMN TO A THE COLUMN TO A		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 RA	NGE				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

			stody Record	Turn-Around	Time:	BY TUES 5/22/2012				ŀ	A	LL	E	NV	/IF	30	NI	МE	NT	AL	
Client:	BLAGO	S ENGL	UEERING INC.	☐ Standard	The same of the sa														ATO		
1	3P A	MERK	A	Project Name) :				10		www	v.hal	llenv	riron	men	tal.c	om				
Mailing	Address	: P.O.	Box 87	NYE	LS 1A			49	01 H	lawki								109			
				Project #:)5-34					505-						
Phone	#: 50	05- 0	NM 07413							70		STATE OF THE PARTY NAMED IN	naly	ysis	Req	uesi					
email o				Project Mana	ger:			(ylu	sel)					04)							T
QA/QC I	Package:		☐ Level 4 (Full Validation)	J. Bu	466		(8021)	Gas or	as/Die					2O4,S(PCB's						
Accredi	tation		r	Sampler: J		implio: 3.	HAMB's	+ TPH (Gas only)	5B (G	8.1)	4.1)	H)		3,NO ₂ ,	8082						2
□ EDD		0000		Sample Tem	neratures	10	is La	+ 1	801	141	200	r PA	als	SN.	les/		/0A	W			\ o
Date	Time	Matrix	Sample Request ID		Preservative Type	The second section and the second	BTEX + MIBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHURIDE			Air Bubbles (Y or N)
5/17/12	0942	SUIL	400 AST, TH1@2	402×1	car	-001	X		X									X			T
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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

PQL

SeqNo: 81491

Units: mg/Kg

Analyte

Client ID:

Prep Date:

HighLimit

%RPD **RPDLimit**

Qual

Chloride

ND 1.5

Sample ID LCS-2028

LCSS

5/21/2012

SampType: LCS

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

14

Result

Result

Result

15

15

Batch ID: 2028 Analysis Date: 5/21/2012

PQL

1.5

RunNo: 2936

110

LowLimit

90

SeqNo: 81492

Units: mg/Kg HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

Sample ID 1205804-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

%REC

84.6

%REC

95.3

400 AST TH1 @ 2'

Batch ID: 2028

RunNo: 2936

Units: mg/Kg

118

Prep Date: Analyte

Client ID:

5/21/2012

Analysis Date: 5/21/2012

PQL

7.5

SeqNo: 81494

1.995

1.995

0

SPK value SPK Ref Val

SPK value SPK Ref Val

SPK value SPK Ref Val

15.00

15.00

15.00

LowLimit

HighLimit %RPD

RPDLimit

Qual

Qual

Chloride

Client ID:

Prep Date:

Sample ID 1205804-001AMSD

SampType: MSD Batch ID: 2028

TestCode: EPA Method 300.0: Anions

RunNo: 2936

85.3

LowLimit

74.6

74.6

118

HighLimit

Analyte Chloride

5/21/2012

400 AST TH1 @ 2'

Analysis Date: 5/21/2012 PQL

7.5

SeqNo: 81495 %REC

Units: mg/Kg

%RPD 0.672

RPDLimit

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205804 22-May-12

Client:

Blagg Engineering

Project:

NYE LS 1A

Project: NYE LS	S I A	
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 Qua	al
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 Qua	al
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	a, tarka yefa u mayona kakeesee
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 Qua	al
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 Qua	al
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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205804

22-May-12

Client:

Blagg Engineering

Project:

NYE LS 1A

Sample ID MB-2011	SampT	ype: ME	BLK	Test	Code: El	PA Method	8015B: Gaso	line Rang	9	
Client ID: PBS	Batch	ID: 20	11	R	RunNo: 2	921				
Prep Date: 5/18/2012	Analysis D	ate: 5/	21/2012	S	SeqNo: 8	1628	Units: mg/K	g		
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			

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 LCS-2011	SampTy	ype: LC	S	Test	tCode: El	PA Method	8015B: Gaso	oline Range	e	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua Gasoline Range Organics (GRO) 29 5.0 25.00 0 115 98.5 133	Client ID: LCSS	Batch	ID: 20	11	R	RunNo: 2	921				
Gasoline Range Organics (GRO) 29 5.0 25.00 0 115 98.5 133	Prep Date: 5/18/2012	Analysis Da	ate: 5/	21/2012	S	SeqNo: 8	1629	Units: mg/K	(g		
	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB 1,100 1,000 108 69.7 121	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	SampTy	ype: MS	3	Test	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: BatchQC	Batch	ID: 20	11	R	RunNo: 2	921				
Prep Date: 5/18/2012	Analysis Da	ate: 5/	21/2012	S	SeqNo: 8	1647	Units: mg/F	(g		
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 12	205762-001AMSD	SampTy	pe: MS	D	Test	Code: El	PA Method	8015B: Gaso	line Rang	9	
Client ID: B	atchQC	Batch	ID: 20	11	R	tunNo: 2	921				
Prep Date:	5/18/2012	Analysis Da	ite: 5/	21/2012	S	SeqNo: 8	1648	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range C	Organics (GRO)	29	5.0	24.83	0	117	85.4	147	0.618	19.2	
Surr: BEB		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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205804

22-May-12

Client:

Blagg Engineering

Project:

NYE LS 1A

Prep Date ND 0.050 No No No No No No No N	Project:	NYE LS	171							Oceanic di Marie September anno Incolo		
Prep Date Pre	Sample ID	MB-2011	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Result Pol. SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Parameter ND 0.050 SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Parameter ND 0.050 SPK Ref Val %REC SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Parameter ND 0.050 SPK Ref Val %REC LowLimit HighLimit SPK Ref Val SPK Ref Val %REC LowLimit HighLimit MRPD RPDLimit Qual Parameter ND 0.050 SPK Ref Val	Client ID:	PBS	Bato	h ID: 20	11	F	RunNo: 2	921				
Service ND 0.050 ND 0.10 ND ND 0.10 ND ND ND ND ND ND ND N	Prep Date:	5/18/2012	Analysis I	Date: 5 /	21/2012	5	SeqNo: 8	1658	Units: mg/k	(g		
Foliable ND 0.050 ND	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ND 0.05 ND 0.10 ND ND 0.10 ND ND ND ND ND ND ND N	Benzene		ND	0.050								
Sample ID CS-2011 SampType: LCS SampType: LCS SampType: LCS Sample ID CS-2011 SampType: LCS SampType:	Toluene		ND	0.050								
Sum: 4-Bromofilluorobenzene 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 MREC LowLimit HighLimit MRPD RPDLimit Qual Berzene 0.83 0.050 1.000 0 82.6 83.3 107 S S Cliurle 0.87 0.050 1.000 0 85.2 80.9 122 S S S 100 S 86.6 74.3 115 S 100 S 86.6 74.3 115 S 100 S 86.6 74.3 115 S 100 S 85.2 80.9 122 50 100 S 85.2 80.9 122 123 120 N Nal<	Ethylbenzene											
Sample D LCS-2011 SampType: LCS	Xylenes, Total			0.10								
Client ID: LCSS	Surr: 4-Bron	nofluorobenzene	0.85		1.000		84.9	80	120			
Prep Date S/18/2012	Sample ID	LCS-2011	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Result PQL SPK value SPK Ref Val WREC LowLimit HighLimit MRPD RPDLimit Qual	Client ID:	LCSS	Bato	h ID: 20	11	F	RunNo: 2	921				
Service 0.83	Prep Date:	5/18/2012	Analysis [Date: 5 /	22/2012	8	SeqNo: 8	1659	Units: mg/F	(g		
Toluene	Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Second Color Col	Benzene		0.83	0.050	1.000	0	82.6	83.3	107			S
Sample D 1205762-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles	Toluene		0.87	0.050	1.000	0	86.6	74.3	115			
Sample D 1205762-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles	Ethylbenzene		0.85	0.050	1.000	0	85.2	80.9	122			
Sample D 1205762-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles	Xylenes, Total		2.6	0.10	3.000	0	85.4	85.2	123			
Client ID: Batch QC Batch ID: 2011 RunNo: 2921	Surr: 4-Bron	nofluorobenzene	0.88		1.000		88.0	80	120			
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 67.2 113 116<			-		The second contract of the second	Mind of the Land Control o				-		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Special	Sample ID	1205762-002AMS	Samp	Type: MS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles	од давитури на постој во пред на пред Постој на пред	
Senzene									8021B: Vola	tiles		
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 Kylenes, 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 Replacementation of the sequence of the s	Client ID:	BatchQC	Batc	h ID: 20	11	F	RunNo: 2	921				
Columb C	Client ID: Prep Date:	BatchQC	Batc Analysis [h ID: 20 Date: 5 /	11 21/2012	F	RunNo: 2 SeqNo: 8	921 1670	Units: mg/M	(g	RPDLimit	Qual
Kylenes, 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 80 colspan="8">RPDLimit Qual 80 colspan="8">Result 90 colspan="8">Result 90 colspan="8">No.049 0.9747 0 84.4 67.2 113 5.01 14.3 Goluene 0.86 0.049 0.9747 0 87.8 62.1 116 3.18 15.9 Ethylbenzene Kylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date:	BatchQC	Batc Analysis I Result	h ID: 20 Date: 5 /	11 21/2012 SPK value	F S SPK Ref Val	RunNo: 2 SeqNo: 8 %REC	921 1670 LowLimit	Units: mg/k	(g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene 0.86 0.9634 89.6 80 120	Client ID: Prep Date: Analyte Benzene Toluene	BatchQC	Analysis I Result 0.78 0.83	PQL 0.048 0.048	21/2012 SPK value 0.9634 0.9634	SPK Ref Val	RunNo: 2 SeqNo: 8 %REC 81.2 86.1	921 1670 LowLimit 67.2 62.1	Units: mg/k HighLimit 113 116	(g	RPDLimit	Qual
Sample ID 1205762-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles	Client ID: Prep Date: Analyte Benzene	BatchQC	Analysis I Result 0.78 0.83 0.83	PQL 0.048 0.048 0.048	21/2012 SPK value 0.9634 0.9634 0.9634	SPK Ref Val	RunNo: 2 SeqNo: 8 %REC 81.2 86.1	921 1670 LowLimit 67.2 62.1	Units: mg/k HighLimit 113 116	(g	RPDLimit	Qual
RunNo: 2921 Prep Date: 5/18/2012 Analysis Date: 5/21/2012 SeqNo: 81671 Units: mg/Kg	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BatchQC 5/18/2012	Analysis I Result 0.78 0.83 0.83	PQL 0.048 0.048 0.048	21/2012 SPK value 0.9634 0.9634 0.9634	SPK Ref Val 0 0 0	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2	921 1670 LowLimit 67.2 62.1 67.9	Units: mg/k HighLimit 113 116 127	(g	RPDLimit	Qual
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 Foluene 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 Kylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BatchQC 5/18/2012	Analysis I Result 0.78 0.83 0.83 2.5	PQL 0.048 0.048 0.048	21/2012 SPK value 0.9634 0.9634 0.9634 2.890	SPK Ref Val 0 0 0	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8	921 1670 LowLimit 67.2 62.1 67.9 60.6	Units: mg/k HighLimit 113 116 127 134	(g	RPDLimit	Qual
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 Foluene 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 Kylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BatchQC 5/18/2012	Batc Analysis I Result 0.78 0.83 0.83 2.5 0.86	PQL 0.048 0.048 0.048 0.048 0.096	11 21/2012 SPK value 0.9634 0.9634 0.9634 2.890 0.9634	SPK Ref Val 0 0 0 0	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6	921 1670 LowLimit 67.2 62.1 67.9 60.6 80	Units: mg/k HighLimit 113 116 127 134 120	(g %RPD	RPDLimit	Qual
Genzene 0.82 0.049 0.9747 0 84.4 67.2 113 5.01 14.3 Foluene 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 Kylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	BatchQC 5/18/2012 nofluorobenzene	Result 0.78 0.83 0.83 2.5 0.86 Samp	PQL 0.048 0.048 0.048 0.048 0.096	SPK value 0.9634 0.9634 0.9634 2.890 0.9634	SPK Ref Val 0 0 0 0 Tes	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6	921 1670 LowLimit 67.2 62.1 67.9 60.6 80	Units: mg/k HighLimit 113 116 127 134 120	(g %RPD	RPDLimit	Qual
Foluene 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 Kylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID:	BatchQC 5/18/2012 nofluorobenzene 1205762-002AMSE BatchQC	Result 0.78 0.83 0.83 2.5 0.86 Samp	PQL 0.048 0.048 0.048 0.096 Type: MS	SPK value 0.9634 0.9634 0.9634 2.890 0.9634	SPK Ref Val 0 0 0 0 Tes	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6 tCode: El	921 1670 LowLimit 67.2 62.1 67.9 60.6 80 PA Method	Units: mg/k HighLimit 113 116 127 134 120 8021B: Volate	%RPD	RPDLimit	Qual
Ethylbenzene 0.85 0.049 0.9747 0 87.7 67.9 127 2.91 14.4 Kylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	BatchQC 5/18/2012 nofluorobenzene 1205762-002AMSE BatchQC	Result 0.78 0.83 0.83 2.5 0.86 Composite the second of the second	PQL 0.048 0.048 0.048 0.096 Type: MS h ID: 20 Date: 5/:	11 21/2012 SPK value 0.9634 0.9634 2.890 0.9634 6D 11 21/2012 SPK value	SPK Ref Val 0 0 0 0 Tes SPK Ref Val	RunNo: 2 SeqNo: 8 **REC 81.2 86.1 86.2 85.8 89.6 **Code: EI RunNo: 2 SeqNo: 8 **REC	921 1670 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 921 1671 LowLimit	Units: mg/k HighLimit 113 116 127 134 120 8021B: Volate Units: mg/k HighLimit	(g %RPD tiles		
Vylenes, Total 2.6 0.097 2.924 0 88.6 60.6 134 4.41 12.6	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	BatchQC 5/18/2012 nofluorobenzene 1205762-002AMSE BatchQC	Result 0.78 0.83 0.83 2.5 0.86 D Samp Batc Analysis I Result 0.82	PQL 0.048 0.048 0.048 0.096 Type: MS h ID: 20' Date: 5/: PQL 0.049	11 21/2012 SPK value 0.9634 0.9634 2.890 0.9634 6D 11 21/2012 SPK value 0.9747	SPK Ref Val 0 0 0 0 Tes: SPK Ref Val 0	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6 tCode: El RunNo: 2: SeqNo: 8 %REC 84.4	921 1670 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 921 1671 LowLimit 67.2	Units: mg/k HighLimit 113 116 127 134 120 8021B: Volate Units: mg/k HighLimit	(g %RPD tiles (g %RPD	RPDLimit 14.3	
	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID: Prep Date: Analyte Benzene Toluene	BatchQC 5/18/2012 nofluorobenzene 1205762-002AMSE BatchQC	Result 0.78 0.83 0.83 2.5 0.86 D Samp Batc Analysis I Result 0.82 0.86	PQL 0.048 0.048 0.096 0.096 0.049 0.049	11 21/2012 SPK value 0.9634 0.9634 2.890 0.9634 5D 11 21/2012 SPK value 0.9747 0.9747	SPK Ref Val 0 0 0 0 Tes SPK Ref Val 0 0	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6 tCode: El RunNo: 2 SeqNo: 8 %REC 84.4 87.8	921 1670 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 921 1671 LowLimit 67.2 62.1	Units: mg/k HighLimit 113 116 127 134 120 8021B: Volat Units: mg/k HighLimit 113 116	%RPD tiles %RPD 5.01 3.18	RPDLimit 14.3 15.9	
Surr: 4-Bromofluorobenzene 0.87 0.9747 89.7 80 120 0 0	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	BatchQC 5/18/2012 nofluorobenzene 1205762-002AMSE BatchQC	Result 0.78 0.83 0.83 2.5 0.86 D Samp Batc Analysis [Result 0.82 0.86 0.85	PQL 0.048 0.096 0.096 0.049 0.049 0.049	SPK value 0.9634 0.9634 0.9634 2.890 0.9634 11 21/2012 SPK value 0.9747 0.9747	SPK Ref Val O O O SPK Ref Val O O O O O O O O O O O O O O O O O O	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6 tCode: El RunNo: 2 SeqNo: 8 %REC 84.4 87.8 87.7	921 1670 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 921 1671 LowLimit 67.2 62.1 67.9	Units: mg/k HighLimit 113 116 127 134 120 8021B: Volat Units: mg/k HighLimit 113 116 127	%RPD tiles %RPD 5.01 3.18 2.91	RPDLimit 14.3 15.9 14.4	
	Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	BatchQC 5/18/2012 nofluorobenzene 1205762-002AMSE BatchQC 5/18/2012	Result 0.78 0.83 0.83 2.5 0.86 0 Samp Batc Analysis I Result 0.82 0.86 0.85 2.6	PQL 0.048 0.096 0.096 0.049 0.049 0.049	11 21/2012 SPK value 0.9634 0.9634 2.890 0.9634 3D 11 21/2012 SPK value 0.9747 0.9747 0.9747 2.924	SPK Ref Val O O O SPK Ref Val O O O O O O O O O O O O O O O O O O	RunNo: 2 SeqNo: 8 %REC 81.2 86.1 86.2 85.8 89.6 tCode: El RunNo: 2 SeqNo: 8 %REC 84.4 87.8 87.7 88.6	921 1670 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 921 1671 LowLimit 67.2 62.1 67.9 60.6	Units: mg/k HighLimit 113 116 127 134 120 8021B: Volat Units: mg/k HighLimit 113 116 127 134	%RPD tiles (g %RPD 5.01 3.18 2.91 4.41	RPDLimit 14.3 15.9 14.4 12.6	

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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

	distribution of the last	MINISTER STATE	Analogoppe	NAME OF TAXABLE PARTY.	
Client Name: BLAGG Wo	ork Orc	der N	Numb	er: 1	205804
Received by/date: 05/8/12					
Logged By: Ashley Gallegos 5/18/2012 10:00:00 AM				54-	7
Completed By: Ashley Gallegos 5/18/2012 10:33:10 AM				SA.	Ŧ
Reviewed By: IO S/10/12					
Chain of Custody					
1 Were seals intact?	Yes		No		Not Present ✔
2. Is Chain of Custody complete?	Yes	V	No		Not Present
3. How was the sample delivered?	Cour	ier			
Log In					
4. Coolers are present? (see 19. for cooler specific information)	Yes	V	No		NA
5. Was an attempt made to cool the samples?	Yes	V	No		NA
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes	V	No		NA
7. Sample(s) in proper container(s)?	Yes	~	No		
8. Sufficient sample volume for indicated test(s)?	Yes	V	No		
9. Are samples (except VOA and ONG) properly preserved?	Yes	V	No		
10. Was preservative added to bottles?	Yes		No	V	NA
11. VOA vials have zero headspace?	Yes		No		No VOA Vials ✔
12. Were any sample containers received broken?	Yes		No	V	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	V	No		# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?	Yes	V	No		(<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes	V	No		Adjusted?
16. Were all holding times able to be met?	Yes	V	No		
(If no, notify customer for authorization.)					Checked by:
Special Handling (if applicable) 17. Was client notified of all discrepancies with this order?	V		NI-		NA of
AND REPORT OF THE PROPERTY OF	Yes	onica indicata	No		NA 🗸
Person Notified: Date:					
By Whom: Via:	eMa	til Martin	Р	hone	Fax In Person
Regarding:	154541.4854.485	antileanaire		parlantin pana	
Client Instructions:					
18. Additional remarks:					
19. Cooler Information					
Cooler No Temp °C Condition Seal Intact Seal No Si	eal Da	ate		Sign	ed By
100					

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 -	2	5/23/12	1100	48.9	ND	ND	ND
TRENCH -	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 -	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 REL			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

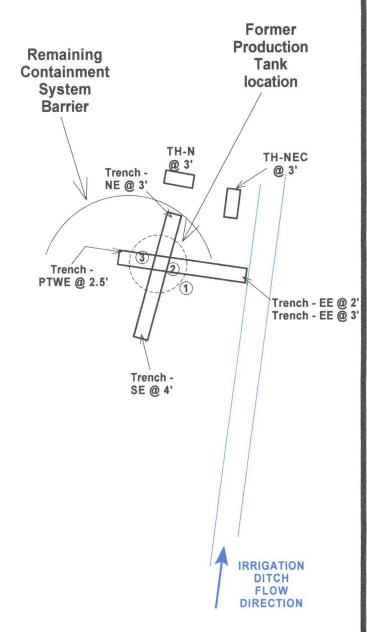
51.9 ppm; RF = 0.52 (RF = response factor). 100 ppm calibration gas - isobutylene.

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.





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

BLAGG ENGINEERING. INC.

20

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: RELEASE INVESTIGATION

DRAWN BY: NJV

40 FT.

FILENAME: NYE LS 1A Excav. Map.SKF

DRAFTED: 05-24-12

ASSESSMENT SCHEMATIC

05/12

BP AMERICA PRODUCTION COMPANY

NYE LS # 1A

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

SAN JUAN COUNTY, NEW MEXICO



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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Trench-EE @ 2' - Production Ta

Project: NYE LS #1A

Collection Date: 5/23/2012 11:00:00 AM

Lab ID: 1205A68-001 Matrix: SOIL

Received Date: 5/25/2012 10:25:00 AM

Analyses	s Result RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	Range Organics (DRO) ND 10 mg/Kg		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 RAI	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	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

Page 1 of 10

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: Trench-EE @ 3' - Production Ta

 Project:
 NYE LS #1A
 Collection Date: 5/23/2012 11:11:00 AM

 Lab ID:
 1205A68-002
 Matrix: SOIL
 Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE 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 R	ANGE				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

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Trench-PTWE @ 2.5' - Producti

Project: NYE LS #1A

Collection Date: 5/23/2012 11:14:00 AM

Lab ID: 1205A68-003

Matrix: SOIL

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 RAM	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	13	3 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.
- 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

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Trench-NE @ 3' - Production Ta

Project: NYE LS #1A

Collection Date: 5/23/2012 11:35:00 AM

Lab ID: 1205A68-004 Matrix: SOIL

Received Date: 5/25/2012 10:25:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	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 RA	NGE				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.
- 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

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Trench-SE @ 4' - Produtcion Tan

Project: NYE LS #1A

Collection Date: 5/23/2012 11:45:00 AM **Received Date:** 5/25/2012 10:25:00 AM

Lab ID: 1205A68-005

Matrix: SOIL

Analyses	Result RL Qual Units				Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	(O) 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 RA	NGE				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	ND 0.10 mg/Kg		1	5/31/2012 3:28:46 PM
Surr: 4-Bromofluorobenzene	98.1			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

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH-NEC @ 3' - Produtcion Tank

Project: NYE LS #1A

Collection Date: 5/23/2012 11:28:00 AM

Lab ID: 1205A68-006

Matrix: SOIL

Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP		
Diesel Range Organics (DRO)	ND	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 RA	ANGE				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		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.

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

Page 6 of 10

Lab Order 1205A68

Date Reported: 6/7/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1205A68-007

Lab ID:

Client Sample ID: TH-N @ 3' - Produtcion Tank Re

Project: NYE LS #1A Collection Date: 5/23/2012 11:50:00 AM

Matrix: SOIL

Received Date: 5/25/2012 10:25:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2012 11:24:31 AM
Surr: DNOP			1	5/30/2012 11:24:31 AM	
EPA METHOD 8015B: GASOLINE RA	ANGE				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		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.
- 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.

WO#:

1205A68

07-Jun-12

Client:

Blagg Engineering

Project:

NYE LS #1A

Sample ID MB-2136	SampType: MBLK TestCode: EPA Metho					PA Method	8015B: Diese	el Range C	Organics	
Client ID: PBS	Batch ID: 2136 RunNo: 3082									
Prep Date: 5/29/2012	Analysis D	Analysis Date: 5/30/2012 SeqNo: 85154					Units: mg/K	g		
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

Qua	lifi	ers:
-----	------	------

*/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

Page 8 of 10

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

PQL

5.0

Units: mg/Kg

SeqNo: 86847

Analyte

Result ND SPK value SPK Ref Val %REC

LowLimit

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO)

920

1000

92.5

121

Qual

Sample ID LCS-2132

Surr: BFB

SampType: LCS

RunNo: 3143

TestCode: EPA Method 8015B: Gasoline Range

%RPD

%RPD

RPDLimit

Client ID: LCSS Prep Date:

5/29/2012

Batch ID: 2132

Analysis Date: 5/31/2012

SeqNo: 86848

Units: mg/Kg HighLimit

133

121

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

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

3.2

1.0

0.10

3.000

1.000

WO#:

1205A68

07-Jun-12

Client:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Blagg Engineering

Project:

NYE LS #1A

Sample ID MB-2132	SampT	ype: ME	BLK	Test	PA Method	8021B: Volat	iles			
Client ID: PBS	Batch ID: 2132 RunNo: 3143									
Prep Date: 5/29/2012	Analysis [Date: 5/	31/2012	S	SeqNo: 80	6876	Units: mg/K	g		
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	Samp	ype: LC	s	Test	tCode: El	PA Method	8021B: Volat	iles	t och digesticke vidlig sich mitglich spreitigen diffig der der der der Ande	the experimental experiments to be considered.
Client ID: LCSS	Batc	h ID: 21	32	F	RunNo: 3	143				
Prep Date: 5/29/2012	Analysis D	Date: 5/	31/2012	SeqNo: 86877			Units: mg/K	g		
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			
	1.0	0.050	1.000	0	104	74.3	115			
Toluene	1.0	0.030	1.000	0	104	14.0	110			

0

107

105

85.2

80

123

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

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

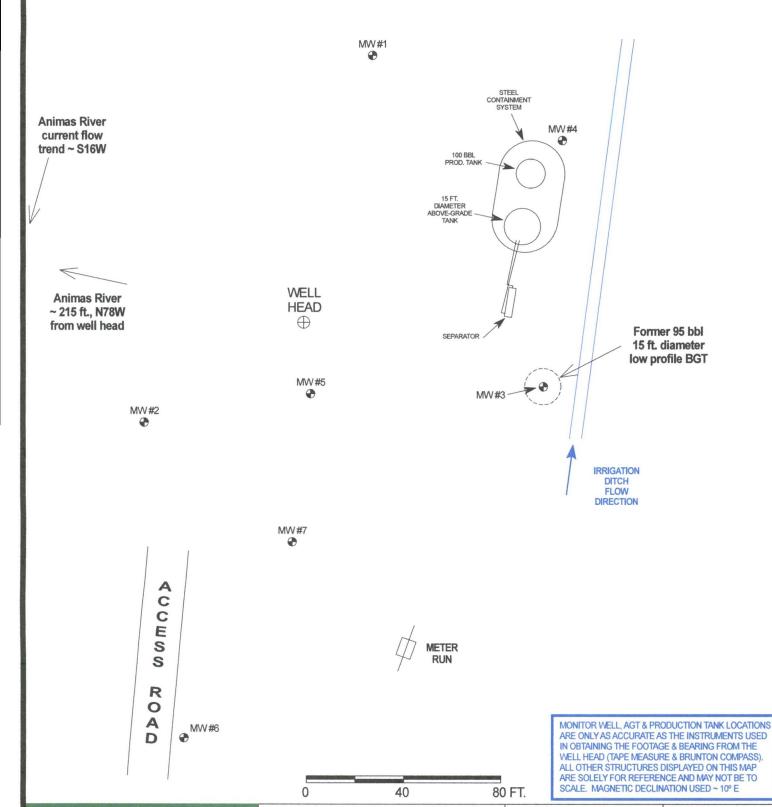
Sample Log-In Check List

CHARLES AND ADDRESS.	Name and Address of the Owner, where					A STATE OF THE PARTY OF THE PAR	-	Name and Address	11 10 10 10 10 10 10 10 10 10 10 10 10 1			and the second second	The second secon
Clie	nt Name:	BLAGG		1	, \	Vork Or	der N	umb	er: 12	05A68			
Red	eived by/date	:_AT		05/25	\$12								
Log	ged By:	Lindsay Ma	angin	5/25/2012	10:25:00 A	Л		l	Johnson	Harriso			
Con	npleted By:	Lindsay Ma	angin	5/25/2012	12:16:23 PI	VI.		,	O TH	Hayo			
Rev	lewed By:	AT	115/25	1/2				·					
Cha	in of Cust	ody											
1.	Were seals in	ntact?				Yes		No		Not P	resent 🗸		
2.	Is Chain of C	sustody comp	olete?			Yes	V	No		Not P	resent		
	How was the					Cour	ier						
Log	in												
		oresent? (see	e 19. for cooler s	specific inform	nation)	Yes	V	No			NA 🗌		
5.	Was an atter	mpt made to	cool the sample	s?		Yes	V	No			NA 🗌		
6.	Were all sam	ples receive	d at a temperatu	ure of >0° C	to 6.0°C	Yes	V	No			NA 🗆		
7.	Sample(s) in	proper conta	ainer(s)?			Yes	V	No					
8.	Sufficient sar	nple volume	for indicated tes	st(s)?		Yes	V	No					
9.	Are samples	(except VOA	and ONG) prop	perly preserve	ed?	Yes	V	No					
10.	Was preserve	ative added t	to bottles?			Yes		No	✓		NA 🗌		
11	VOA vials ha	ve zero head	Ispace?			Yes		No		lo VOA	Vials ⊻		
			ers received bro	ken?		Yes		No					
	Does paperw	ork match bo					V			b	of preserved ottles checked or pH:		
14.	Are matrices	correctly ide	ntified on Chain	of Custody?		Yes	V	No			51 pr 1.	(<2 or >1	2 unless noted)
15.	Is it clear wha	at analyses w	vere requested?			Yes	V	No			Adjuste	d?	
16.	Were all hold	ing times abl	le to be met?			Yes	V	No					
	-		authorization.)								Checked	d by:	
Spe	cial Handl	ing (if app	licable)										
17.	Was client no	otified of all d	iscrepancies wit	th this order?		Yes		No			NA 🗸		
	Person	Notified:		1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Date:		A STATE OF THE PARTY OF						
	By Who	m:			Via:	еМа	il [] Ph	one [Fax	In Pers	on	
	Regardi	ng:			According to the second of the			2 4 5 7 2 4 4 2	Supra 1 Shorts Street		A CALL MAN AND A SECOND OF THE PARTY.	The state of the s	
	Client In	structions:						· · · · · · · · · · · · · · · · · · ·			With the first the second grant of the second district the second	tty derived the second contribute of	
18.	Additional rer	marks:											
19.	Cooler Infor	mation											
	Cooler No	Temp °C		Seal Intact	Seal No	Seal Da	ite		Signed	Ву	1		
	1	1.0	Good Y	es	1]		

C	hain-d	of-Cu	tody Record	Turn-Around 1		١,			1	A	LL	E	V	/TF	50	N	E	NT	AL				
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush			10	H									RA					
				Project Name:											nme				. 11 420		-		
Mailing Ad	ddress:	P.O. BO	V 07		NYE LS # 1	٨		40	04.1														
				Project #:	MILLOWI											- 50		37109					
			FIELD, NM 87413	rioject #.				Te	1. 50)5-34	45-3	STATE OF	THE REAL PROPERTY.	No. of Lot	505	ST 10 T	ALCO HE)7		1.4	. 12		
Phone #:		(505) 63	32-1199									P	Inal	10	Red	ques	st						
email or F				Project Manag	jer:			SO4)															
QA/QC Pad Standa	_		Level 4 (Full Validation)		JEFF BLAGG		JEFF BLAGG		(8021B)	(Aluo	/Diese					PO4,	PCB's						ע
Accreditat	ion:			Sampler: NELSON VELEZ 977		- F	(Gas	(Gas					102,	8082 P					2	=			
□ NELAP)	☐ Other		On ice: Yes □ No		I	TPH (Gas	15B	18.1)	17.1	Œ		Cl, NO3, NO2,	-		2			0	200			
□ EDD (T	ype)			Sample Temperature:			L	+ =	d 80	d 4.	od 5(or PAH)	als	J, NC	ides	-	V0/	0.00	1	F. 1	25		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1205AL88	BTEX +-WITE	BTEX + MTBE +	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA	RCRA 8 Metals	Anions (F, C	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)	4	Grab sample	o pt. composite sample		
5/23/12	1100	SOIL	Trench-EE @ 2' - Production Tank Release	4 OZ 1	Cool	-601	٧		٧											/			
5/23/12	1111	SOIL	Trench-EE @ 3' - Production Tank Release	4 oz 1	Cool	-002	٧		٧										1	/			
5/23/12	1114	SOIL	Trench-PTWE @ 2.5' - Production Tank Release	4 oz 1	Cool	- 603	٧		٧										1	/	T		
5/23/12	1135	SOIL	Trench-NE @ 3' - Production Tank Release	4 oz 1	Cool	-004	٧		٧										1	1	T		
5/23/12	1145	SOIL	Trench-SE @ A - Production Tank Release	4 oz 1	Cool	-005	٧		٧										1	/	I		
																				\perp	1		
5/23/12	1128	SOIL	TH-NEC @ 3' - Production Tank Release	4 oz 1	Cool	-004	٧		٧										1	/			
5/23/12	1150	SOIL	TH-N @ 3' - Production Tank Release	4 oz 1	Cool	-007	٧		٧										1	/	4		
							_								_	_			_	\perp	+		
***************************************							-							_	_	_	_		_	+	+		
																_							
Date: 5/24/12	Time: Relinquished by: 862 Mm V 1		un Uf	Christia hackon 5/24/12 802		Rer BI	nark LL DI ff Pe	s: RECT	TPH LY TO 200 F	O BP)15	B) - SF ALL	GRO VZ Farn	0 & ninet	DRO	ON FF VM 8	NLY. BLAG 1000 7401	6 P	E4	ACT			
Date:	Time:	Relinquish	other Walters	Received by:	The state of the s	Date Time 5/25/2 / 0 2 5	w	ork C	order	: <u>N</u>	N151		8					CATI			1		

FIGURE 1





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

BLOOMFIELD, NEW MEXICO 87413

P.O. BOX 87

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

08/13

FIGURE 2 (3rd 1/4, 2013) gradient ~0.75 ft. per 100 lateral ft. MW #1 STEEL (94.46)CONTAINMENT SYSTEM MW #4 **Animas River** (95.07)current flow trend ~ S16W 100 BBL **Animas River** PROD. ~ 215 ft., N78W TANK from well head 15 FT. DIAMETER ~N69.25W ABOVE-GRADE ~N67W TANK ~N65W WELL **HEAD** 1 **APPARENT** Former 95 bbl **GROUNDWATER** 15 ft. diameter FLOW DIRECTION low profile BGT ~N69.5W MW #5 (94.67)MW #3 (95.37)95.00 94.75 MW #2 94.50 (94.16)94.25 IRRIGATION DITCH **FLOW** DIRECTION A C Top of Well Elevation C WELL (100.00)E FLANGE S MW#1 (101.64)MW #2 (100.26) S MW #3 (101.37) (101.47)R (101.56)0 METER RUN MW #6 0 A MW #7 0 D Groundwater MW #1 (94.46) 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 80 FT. 40 BP AMERICA PRODUCTION COMPANY **GROUNDWATER** PROJECT: MW INSTALLATIONS BLAGG ENGINEERING. CONTOUR NYELS#1A DRAWN BY: NJV CONSULTING PETROLEUM / RECLAMATION SERVICES MAP P.O. BOX 87 FILENAME: 07-31-13-GW.SKF SW/4 SE/4 SEC. 23, T31N, R11W BLOOMFIELD, NEW MEXICO 87413 07/13 DRAFTED: 07-31-13 SAN JUAN COUNTY, NEW MEXICO

PHONE: (505) 632-1199

Lab Order 1205841

Date Reported: 5/24/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GW @ 3' (95 LP BGT)

Project: NYE LS #1A Lab ID: 1205841-001

Collection Date: 5/17/2012 9:50:00 AM

Received Date: 5/18/2012 10:00:00 AM

Analyses	Result	RL Qu	al 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: BRN
Chloride	380	10	mg/L	20	5/21/2012 1:53:50 PM

Matrix: AQUEOUS

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

C	Chain-of-Custody Record		Turn-Around Time:						ŀ	łΑ	LL	E	NV	IF	30	NI	ИE	NT	ΓΑΙ	L		
Client:	BLAG	G ENGR	. / BP AMERICA	Standard	Rush			200											T			ĥ
				Project Name							ww	w.ha	allen	viro	nme	ntal	.com	n				
Mailing A	ddress:	P.O. BO	X 87	NYE	43 #1	A	4901 Hawkins NE - Albuquerque, NM 87109									7-						
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50)5-34	1 5-3	975		Fax	505-	345	-410	17				
Phone #:		(505) 63	32-1199									ļ	Anal	ysis	Red	ques	st					·
email or	Fax#:			Project Manag	- /									504)				16				
QA/QC Pa	-		Level 4 (Full Validation)	NELS	DA VELL	きて	1875 (8021B)	+ TPH (Gas only)	s/Diese					PO4,	/ 8082 PCB's			()			e	
Accreditation:		Sampler: /	ELSON V	ELEZ PAV	100	(Ga	(Ga					NO2	182			300			mb			
□ NELAP □ Other			On Ice:	Yes	□ No	1	HT.	158	18.1	04.1	AH)		03,	/ 80		8				te s	or N	
☐ EDD (Type)			Sample Temp	erature:	1.0	İ		98 p	od 4	od 5	or P	tals	CI, N	ides	8	-40	99		ple	oosi	2	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205841	BTEX +-WITH	BTEX + MTBE	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,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300:0)		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
5/17/12	0950	WATER	6023' (95 LP BET)	40ml-2	Heldeson	-00	V				_									V		
5/17/12	0956	WATER	6We3 (95 LP BET)	500ml -1	2002	-00Pl												~		1	\neg	
4						MOS/21/12																
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	nark	S:	TPI	1 (8	015	B) -	GRO	8	DRC	ON	ILY.				
3/17/12	1320	10	Mn of	1 mistre	Walter	5/17/12 1320		LL DI						F	l			740				
Date:	Time:	Relinquish	ed by:	Received by:	\cap	Date Time						-		_	_			37401	ı ATJ	r (m.	^-	
5/17/12	1710	Mhr	ateu holler	Muhl	Ofen o	5/18/12/1000								-								
	If necessar	y samples su	bmitted to Hall Environmental may be s	subcontracted to other	acgredited laboratori	es. This serves as notice of	of this	possib	ility. A	Any su	b-con	tracte	d data	will be	e clear	rly not	ated or	n the a	inalytic	al rep	ort.	

Blagg Engineering

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205841

24-May-12

Project:	NYE LS	#1A									
Sample ID	MB	SampT	ype: M	BLK	Test	Code: El	PA Method	300.0: Anions			
Client ID:	PBW	Batch	ID: R	2942	R	unNo: 2	942				
Prep Date:		Analysis D	ate: 5	/21/2012	S	eqNo: 8	1679	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	0.50								
Sample ID	LCS	SampT	ype: L0	cs	Test	Code: El	PA Method	300.0: Anions			germälissen och partyren med fin yr den et av fra partyret
Client ID:	LCSW	Batch	ID: R	2942	R	unNo: 2	942				
Prep Date:		Analysis D	ate: 5	/21/2012	S	eqNo: 8	1680	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	SampT	ype: M	S	Test	Code: El	PA Method	300.0: Anions	;		
Client ID:	BatchQC	Batch	ID: R	2942	R	tunNo: 2	942				
Prep Date:		Analysis D	ate: 5	/21/2012	S	eqNo: 8	1682	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	1205829-003AMSI) SampT	ype: M	SD	Test	Code: El	PA Method	300.0: Anions	}	opdanaalumisten ys Aquan opinio itsi taan Rumma gun a oo	одому принципалну под продости до под се бого под се
Client ID:	BatchQC	Batch	ID: R	2942	R	tunNo: 2	942				
Client ID: Prep Date:	BatchQC	Batch Analysis D				tunNo: 2 seqNo: 8		Units: mg/L			

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		

102

78

0.334

7.117

0.50

5.000

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	3	Tes	tCode: E	PA Method	300.0: Anions			
Client ID:	BatchQC	Batch ID	: R2	942	F	RunNo: 2	942				
Prep Date:		Analysis Date	: 5/	22/2012	S	SeqNo: 8	1744	Units: mg/L			
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		19	0.50	5.000	13.35	104	78	107			

Qualifiers:

Chloride

*/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

Page 2 of 4

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

0.50

SeqNo: 81745

Analyte

PQL

Units: mg/L

SPK value SPK Ref Val %REC

HighLimit

%RPD

RPDLimit Qual

Chloride

19

5.000

13.35

104

78

0.235

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits J RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1205841

24-May-12

Client:

Blagg Engineering

Project:

NYE LS #1A

Sample ID 5ML RB	SampT	ype: ME	BLK	Test	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batch ID: R2940			R	RunNo: 2	940					
Prep Date:	Analysis D	ate: 5/	21/2012	S	SeqNo: 8	1596	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	SampT	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSW	Batch	ID: R2	940	RunNo: 2940							
Prep Date:	Analysis D	ate: 5/	21/2012	8	SeqNo: 8	1598	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

Page 4 of 4



1144 LING OTHER MAINTAINS LAUGHAU

4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

BLAGG Client Name: Work Order Number: 1205841 MG 05/18/12 Received by/date: anne Ham 5/18/2012 10:00:00 AM Logged By: **Anne Thorne** am Ham Completed By: Anne Thorne 5/21/2012 Reviewed By: Chain of Custody Yes No No Not Present ▼ 1 Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes V No Yes V No NA 🗌 5. Was an attempt made to cool the samples? NA 🗌 Yes V No 6 Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9 Are samples (except VOA and ONG) properly preserved? Yes No V NA 10. Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes V No 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Yes V No Adjusted? 15. Is it clear what analyses were requested? Yes V No 16 Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) NA 🗌 Yes No V 17. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 18 Additional remarks: 19. Cooler Information Temp °C | Condition | Seal Intact | Seal No | Cooler No Seal Date Signed By 1.0 Good



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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #1

Project: NYE LS #1A Collection Date: 8/17/2013 7:40:00 AM

Lab ID: 1308871-001

Matrix: AQUEOUS

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Q	Qual U	nits	DF Date Analyzed Batch
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	1	ıg/L	1 8/21/2013 12:18:43 PM R1279
Toluene	ND	1.0	ŀ	ıg/L	1 8/21/2013 12:18:43 PM R1279
Ethylbenzene	ND	1.0	1	ug/L	1 8/21/2013 12:18:43 PM R1279
Xylenes, Total	ND	2.0	ŀ	ıg/L	1 8/21/2013 12:18:43 PM R1279
Surr: 4-Bromofluorobenzene	106	69.4-129	9	%REC	1 8/21/2013 12:18:43 PM R1279
EPA METHOD 300.0: ANIONS					Analyst: JRR
Fluoride	0.71	0.10	r	ng/L	1 8/21/2013 11:30:25 AM R1280
Chloride	27	10	r	ng/L	20 8/21/2013 12:07:39 PM R1280
Nitrate+Nitrite as N	ND	1.0	r	ng/L	5 8/21/2013 11:17:40 PM R1280
Sulfate	81	10	r	ng/L	20 8/21/2013 12:07:39 PM R1280
EPA METHOD 200.7: DISSOLVED META	ALS				Analyst: ELS
Iron	0.65	0.020	* r	ng/L	1 8/26/2013 8:13:10 PM R1289
SM2540C MOD: TOTAL DISSOLVED SC	DLIDS				Analyst: KS
Total Dissolved Solids	750	200	* r	ng/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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
 - Not Detected at the Reporting Limit Page 1 of 12 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #2

Collection Date: 8/17/2013 8:30:00 AM Project: NYE LS #1A 1308871-002 Received Date: 8/20/2013 9:50:00 AM Lab ID: Matrix: AQUEOUS

Analyses	Result	RL Q	ual Units	DF Date Analy	zed 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	2:48:46 PM R12796
Ethylbenzene	ND	1.0	μg/L	1 8/21/2013 12	2:48:46 PM R12796
Xylenes, Total	ND	2.0	μg/L	1 8/21/2013 12	2:48:46 PM R12796
Surr: 4-Bromofluorobenzene	105	69.4-129	%REC	1 8/21/2013 12	2:48:46 PM R12796
EPA METHOD 300.0: ANIONS					Analyst: JRR
Fluoride	0.42	0.10	mg/L	1 8/21/2013 12	2:20:04 PM R12802
Chloride	44	10	mg/L	20 8/21/2013 12	2:32:29 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 M	ETALS				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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 2 of 12 Sample pH greater than 2 for VOA and TOC only.
- P
- RL Reporting Detection Limit

Analytical Report Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW #3 **CLIENT:** Blagg Engineering

Project: NYE LS #1A Collection Date: 8/17/2013 10:00:00 AM Lab ID: 1308871-003 Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: 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					Analys	t: 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	1 R12802
Sulfate	120	10	mg/L	20	8/21/2013 1:34:32 PM	R12802
EPA METHOD 200.7: DISSOLVED I	METALS				Analys	t: ELS
Iron	0.042	0.020	mg/L	1	8/26/2013 8:29:06 PM	R12893
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS				Analys	t: 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.

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND Not Detected at the Reporting Limit Page 3 of 12 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308871 Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #4

Project: NYE LS #1A Collection Date: 8/17/2013 10:45:00 AM

Lab ID: 1308871-004 Received Date: 8/20/2013 9:50:00 AM Matrix: AQUEOUS

Analyses	Result RL Qua		ual 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 ME	TALS				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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 4 of 12 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Analytical Report Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #5

Project: NYE LS #1A

Collection Date: 8/17/2013 12:10:00 PM

Lab ID: 1308871-005 Matrix: AQUEOUS

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Q	ual 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 ME	TALS				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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 5 of 12 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #6

Project: NYE LS #1A

Collection Date: 8/17/2013 11:30:00 AM

Lab ID: 1308871-006 Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al 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 ME	TALS				Analyst	ELS
Iron	ND	0.020	mg/L	1	8/26/2013 9:05:51 PM	R12893
SM2540C MOD: TOTAL DISSOLVED S	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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 6 of 12 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Analytical Report Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: NYE LS #1A

1308871-007 Lab ID: Matrix: AQUEOUS Collection Date: 8/17/2013 9:10:00 AM Received Date: 8/20/2013 9:50:00 AM

Client Sample ID: MW #7

Analyses	Result RL		ual 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 META	LS				Analyst	ELS
Iron	ND	0.020	mg/L	1	8/26/2013 9:14:02 PM	R12893
SM2540C MOD: TOTAL DISSOLVED SO	LIDS				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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 7 of 12 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

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

Qual

Analyte Iron

Result PQL SPK value SPK Ref Val %REC LowLimit

LowLimit

85

HighLimit

%RPD **RPDLimit**

ND 0.020

Sample ID LCS

SampType: LCS

TestCode: EPA Method 200.7: Dissolved Metals

Client ID:

Batch ID: R12893

RunNo: 12893

SeqNo: 367534

Units: mg/L

Analyte

Prep Date:

Analysis Date: 8/26/2013

SPK value SPK Ref Val

%REC 0

97.7

%RPD **RPDLimit**

Qual

Iron

Result PQL 0.49 0.020

0.5000

HighLimit

115

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 8 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

1308871

03-Sep-13

Qual

Client: Project: Blagg Engineering

Sample ID MB

NYE LS #1A

Client	ID:	DDM

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

Batch ID: R12802

RunNo: 12802

Prep Date:

Analysis Date: 8/21/2013

SeqNo: 364935

Units: mg/L

HighLimit

Analyte Fluoride Chloride

Sulfate

PQL Result ND 0.10 ND 0.50 ND 0.50 ND 0.20

Sample ID LCS-b Client ID:

Nitrate+Nitrite as N

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSW

Sample ID 1308871-001BMS

Sample ID 1308871-001BMSD

Batch ID: R12802

PQL

0.10

0.50

RunNo: 12802

%REC

96.1

93.0

94.9

95.6

Units: mg/L

110

110

110

110

Prep Date:

Analysis Date: 8/21/2013

SeqNo: 364937

0

0

0

0

0.7095

0.7095

0.6796

4.761

17.48

0.2331

SPK value SPK Ref Val

0.5000

SPK value SPK Ref Val

0.5000

5.000

SPK value SPK Ref Val %REC

HighLimit %RPD **RPDLimit** Qual

%RPD

Analyte Fluoride Chloride Sulfate

9.5 0.50 10.00 Nitrate+Nitrite as N 3.3 0.20 3.500

Result

0.48

4.6

TestCode: EPA Method 300.0: Anions

LowLimit

90

90

90

90

76.9

Client ID:

Batch ID: R12802

SampType: MS

RunNo: 12802

Prep Date:

Analysis Date: 8/21/2013

SeqNo: 364939

Units: mg/L

114

Analyte

Qual

Result PQL SPK value SPK Ref Val 0.5000

%REC LowLimit 91.7

HighLimit

RPDLimit

Fluoride

1.2 0.10 SampType: MSD

TestCode: EPA Method 300.0: Anions

Client ID: MW #1 Batch ID: R12802

PQL

0.10

RunNo: 12802

HighLimit

Prep Date:

Units: mg/L

Analyte

Analysis Date: 8/21/2013

SeqNo: 364940 %REC

%RPD

%RPD

2.20

RPDLimit

Qual

Fluoride

SampType: MS

Result

1.1

114

20

Sample ID 1308898-001BMS

Batch ID: R12802

RunNo: 12802

%REC

91 1

101

107

95 9

86.6

Client ID: Prep Date: **BatchQC**

76.9

89.9

90.1

90

LowLimit

TestCode: EPA Method 300.0: Anions

LowLimit

76.9

Units: mg/L

HighLimit

119

116

110

Qual

Analyte Fluoride

Analysis Date: 8/21/2013 Result PQL SPK value SPK Ref Val

SeqNo: 364962

%RPD **RPDLimit**

Chloride Sulfate Nitrate+Nitrite as N

1.1 0.5000 98 0.50 5.000 28 0.50 10.00 3.6 0.20 3.500

S

- Qualifiers: Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

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

Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308871

03-Sep-13

Client: Project:

Blagg Engineering 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 HighLimit Analyte Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** LowLimit Qual Fluoride 1.1 0.10 0.5000 0.6796 92.2 76.9 114 0.466 20 119 Chloride 9.8 0.50 5.000 4.761 101 89.9 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 HighLimit %RPD **RPDLimit** LowLimit 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

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308871

03-Sep-13

Client: Project: **Blagg Engineering**

Sample ID 5ML RB

NYE LS #1A

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 SPK value SPK Ref Val %REC LowLimit Result **PQL** HighLimit %RPD

%RPD

RPDLimit

RPDLimit Qual

Qual

ND 1.0 Benzene Toluene ND 1.0 ND 1.0 Ethylbenzene Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 21

20.00

107 69.4

129

Sample ID 100NG BTEX LCS

SampType: LCS

RunNo: 12796

TestCode: EPA Method 8021B: Volatiles

Client ID: LCSW

Prep Date:

Batch ID: R12796 Analysis Date: 8/21/2013

SeqNo: 364722 Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	
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
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- 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.
- Reporting Detection Limit

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308871

03-Sep-13

Client:

Blagg Engineering

Project:

Analyte

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

HighLimit

RPDLimit Qual

Total Dissolved Solids

PQL 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

Client ID:

Prep Date:

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

%REC

LowLimit

HighLimit

RPDLimit

Qual

Total Dissolved Solids

1030

Result

Result

Result

8090

8160

PQL 20.0 1000

0 103

80

LowLimit

120

%RPD

%RPD

Sample ID 1308726-002EMS **BatchQC**

SampType: MS

Batch ID: 8968

PQL

40.0

TestCode: SM2540C MOD: Total Dissolved Solids

RunNo: 12829

SeqNo: 365556

120

Units: mg/L

Analyte

8/21/2013

Analysis Date: 8/23/2013

2000

SPK value SPK Ref Val %REC

6104

SPK Ref Val

6104

LowLimit

HighLimit

%RPD **RPDLimit** Qual

Qual

Sample ID 1308726-002EMSD

SampType: MSD

TestCode: SM2540C MOD: Total Dissolved Solids

103

Client ID: **BatchQC**

Total Dissolved Solids

Total Dissolved Solids

Batch ID: 8968

PQL

40.0

RunNo: 12829

99.3

HighLimit

120

Prep Date: Analyte

8/21/2013

Analysis Date: 8/23/2013

SPK value

2000

SeqNo: 365557 %REC

Units: mg/L

LowLimit

80

80

%RPD

0.862

RPDLimit

Qualifiers:

J

R

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits

Analyte detected below quantitation limits

- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

Page 12 of 12

HALL **ENVIRONMENTAL** ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client N	ame: BLAG	GG .	Work Order Number	1308871		RcptNo:	1
Received	d by/date:	LM 08/	20/13		*.		
Logged E	By: Anne	e Thorne	8/20/2013 9:50:00 AM		Ame Ham	_	
Complete	ed By: Anno	e Thorne	8/20/2013		an Ilm		
Reviewe	d By:	Ma	08/2/13				
Chain c	of Custody		ı				
1. Cust	ody seals intac	ct on sample bottles	?	Yes	No 🗆	Not Present ✓	
2. Is Ch	nain of Custody	y complete?		Yes 🗸	No 🗌	Not Present	
3. How	was the samp	le delivered?		Courier			
Log In							
4. Was	an attempt m	ade to cool the san	pples?	Yes 🗸	No 🗌	NA 🗆	
5. Wer	e all samples r	eceived at a tempe	rature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
6. Sam	nple(s) in prope	er container(s)?		Yes 🗸	No 🗌		
7. Suffi	cient sample v	olume for indicated	test(s)?	Yes 🗸	No 🗌		
8. Are	samples (exce	pt VOA and ONG)	properly preserved?	Yes 🗸	No 🗌		
9. Was	preservative a	added to bottles?		Yes	No 🗸	NA 🗆	
10.VOA	vials have zer	ro headspace?		Yes 🗹	No 🗆	No VOA Vials	
11. Wer	e any sample	containers received	broken?	Yes	No 🗸	# of preserved bottles checked	. 1
		atch bottle labels? s on chain of custo	dy)	Yes 🗸	No 🗆	for pH:	r > 2 unless noted)
13. Are r	matrices corre	ctly identified on Ch	ain of Custody?	Yes 🗸	No 🗆	Adjusted	NO
14. Is it	clear what ana	lyses were requeste	ed?	Yes 🗸	No 🗌		, Marie
		nes able to be met? ner for authorization		Yes 🗸	No 🗌	Checked by:	p
(,,						1
Special	l Handling	(if applicable)					
16. Was	client notified	of all discrepancies	with this order?	Yes	No 🗆	NA 🗹	
ļ	Person Notifi	ed:	Date		10 10 10 10 10 10 10 10 10 10 10 10 10 1		
	By Whom:		Via:	eMail	Phone Fax	in Person	
	Regarding:						
	Client Instruc	ctions:		Plantish of Park or second About the second			
17. Add	litional remarks	s:			-		
	oler Information	on .			_		
C		emp °C Condition		Seal Date	Signed By		
11	1.0	Good	Yes	Commission of the State of Sta	The control of the co		

U	Unain-of-Custody Record		Turn-Mound I	iiie.		HALL ENVIRONMENT					'AI										
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush			318											ATC		
			,	Project Name:					40.41				allen							,,,	
Mailing A	ddress:	P.O. BO	X 87		NYE LS # 1	A		49	n1 ⊢									'' 37109	a		
			FIELD, NM 87413	Project #:															,		
Phone #:		(505) 63					Tel. 505-345-3975 Fax 505-345-4107 Analysis Request														
email or F	ax#:	(303) 03		Project Manag	roiect Manager:															7	
QA/QC Pad			Level 4 (Full Validation)	NELSON VELEZ 878		8021B	only)	MRO)			(S		O4,504)			201					
Accreditat				Sampler:	NELSON VE	LEZ MV	1	Gas	~	_	_	70SIMS)	FA15	6	ds	(pa.	111				sample
□ NELAP		☐ Other		CONTROL SERVICE STREET STREET STREET STREET		□ No	1	+ TPH (Gas	/ DRO	18.	504.1)	8270	pu	7,5	Sol	ilter					
□ EDD (1	ype)			Sample Tempe	erature: 1,0		1	E + 1	(GRO	od 4	po	ō	Metals	₩, I	lvec	us (1				<u>e</u>	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1308 971	BTEX ←★	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 Me	Anions (F,CI,NO3,NO2,	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N.			lab.	5 pt. composite
8/17/13	0740	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-00	٧												T.	V	T
8/17/13	0740	WATER	MW # 1	500 ml - 1	Cool	od								٧	٧				1	V	T
8/17/13	0740	WATER	MW # 1	125 ml - 1	HNO ₃ & Cool	7001										٧			1	V	T
8/17/13	0740	WATER	MW # 1	125 ml - 1	H ₂ SO ₄	700											٧		1	V	T
8/17/13	0830	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-02	٧											П	1	V	
8/17/13	0830	WATER	WW # 2	500 ml - 1	Cool	-002								٧	٧				1.	٧	T
8/17/13	0830	WATER	MW # 2	125 ml - 1	HNO ₃ & Cool	702										٧			1	V	
8/17/13	0830	WATER	MW # 2	125 ml - 1	H ₂ SO ₄	7062											٧		1	V	
8/17/13	1000	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-03	٧												1	V	
8/17/13	1000	WATER	MW # 3	500 ml - 1	Cool	7003								٧	٧				1	٧	
8/17/13	1000	WATER	MW # 3	125 ml - 1	HNO ₃ & Cool	-03										٧				٧	
8/17/13	1000	WATER	MW # 3	125 ml - 1	H₂SO ₄	-03											٧			V	
Date: /	Time:	Relinquish	ed by:	Received by:		Date Time		nark										P3.	10	F 3	,
3/19/13 Date:	937 Time:	Relinguishe	ed by:	Received by: N Date Time			Se	end ir	voic	e to	Bla	-	ngin		ng, lı	ıc.					
1/19/13	1600	M	istre Warles	P.O. Box 87 Bloomfield, NM 87413 be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be seemed as								:									

Trum-Around time.

_	Clients		1			1	Ī	1 1	- 1	HΑ		F	NV	/TI	50	NI	ME	N	TA		
Client:	BLAG	G ENGR.	/ BP AMERICA		Rush _		1 -		F	_										OF	
				Project Name:						-							.con		-		
Mailing A	ddress:	P.O. BO	X 87		NYE LS # 1	lA.		49	01 H	lawk								 3710	9		
		BLOOM	FIELD, NM 87413	Project #:			1		el. 50								-410				
Phone #:		(505) 63	2-1199				1						Anal	1	STORE T		THE REAL PROPERTY.		10		
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QA/QC Pa	ckage:			NELSON VELEZ		80218)	ζ.	MRO)					T,504)				-				
Stand	ard		Level 4 (Full Validation)	NELSON VELEZ		(80	s only)	-			MS)		2		9	nV				e	
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□ NELAF	-	□ Other		On Ice: ✓ Yes □ No			T	TPF	-	418	207	827	S	ğ	sq S	(filt	I				ite s
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Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	1	₩ +	8015B (GRO	(Met	(Met	(8310	00	ns (F	Dis		te N				Som
Dute	1 11110	Macrix	Campio Moqueot ID	Type and #	Type	1308871	ВТЕХ	BTEX	TPH 8	TPH (Method 418.1)	EDB (Method 504.1)	PAH	RCRA	Anions	Total Dissolved Solids	Iron,	Nitrate N			Grab	5 pt.
8/17/13	1045	WATER	MW # 4	40 ml VOA - 2	HCI & Cool	-64	٧	_												٧	
8/17/13	1045	WATER	MW # 4	500 ml - 1	Cool	-004								٧	٧					٧	
8/17/13	1045	WATER	MW # 4	125 ml - 1	HNO ₃ & Cool	-004										٧				٧	
8/17/13	1045	WATER	MW # 4	125 ml - 1	H₂SO ₄	-004											٧			٧	
8/17/13	1210	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-005	٧													٧	
8/17/13	1210	WATER	MW # 5	500 ml - 1	Cool	-065								٧	٧					٧	
8/17/13	1210	WATER	MW # 5	125 ml - 1	HNO ₃ & Cool	-005										٧				٧	
8/17/13	1210	WATER	MW # 5	125 ml - 1	H₂SO ₄	-0do											٧			٧	
8/17/13	1130	WATER	MW # 6	40 ml VOA - 2	HCI & Cool	-octo	٧													٧	
8/17/13	1130	WATER	MW # 6	500 ml - 1	Cool	-odo								٧	٧					٧	
8/17/13	1130	WATER	MW # 6	125 ml - 1	HNO ₃ & Cool	-ocb										٧				٧	
8/17/13	1130	WATER	MW # 6	125 ml - 1	H₂SO ₄	-00b											V			٧	
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U	Chain-ot-Custody Record			Train / Tourio Time.			١,	1	1 1	F	HΑ	LL	E	NV	/TF	20	NI	ME	N.	ТА	L
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush		-		F									R			
	***************************************			Project Name:						-											
Mailing A	ddress:	P.O. BO	X 87		NYE LS # 1	LA	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
		BLOOM	FIELD, NM 87413	Project #:			Tel. 505-345-3975 Fax 505-345-4107														
Phone #:		(505) 63	32-1199					#4 F	中			ENGELO	Anal	ysis	Red	lues	st				
email or F	ax#:			Project Manag	er:									-							
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +**	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N			Grab sample	5 pt. composite
8/17/13	0910	WATER	MW # 7	40 ml VOA - 2	HCl & Cool	-007	٧													٧	
8/17/13	0910	WATER	MW # 7	500 ml - 1	Cool	7007								٧	٧					V	
8/17/13	0910	WATER	MW # 7	125 ml - 1	HNO ₃ & Cool	7007										٧				V	
8/17/13	0910	WATER	MW # 7	125 mi - 1	H₂SO ₄	-007											٧			٧	
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	If necessa	samples s	ubmitted to Hall Environmental may be s	subcontracted to other	accredited laboratorie	es. This serves as notice of	f this p	ossibili	ity. A	ny sub	-contr	acted	data v	vill be	clearly	notat	ed on	the an	alvtica	l renor	rt.





BP America Nye LS 1A

ye LS 1A DISTRICT III

(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:

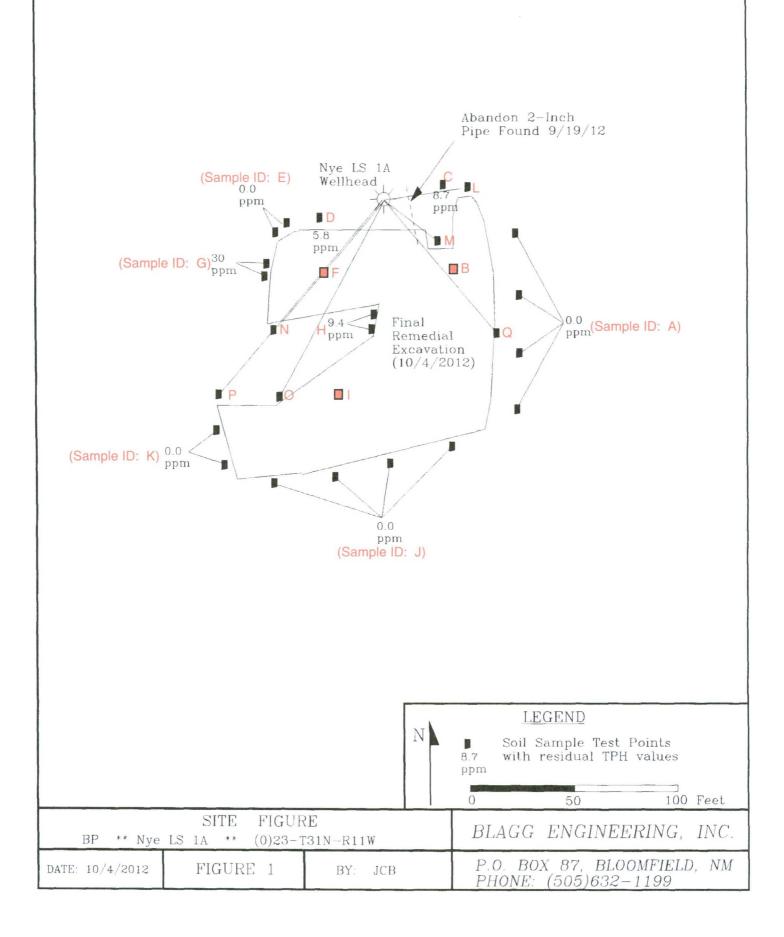
The final excavation was approximately 130' x 120' x 8' deep. Groundwater was generally encountered at a depth of about 5'-6' below grade and soils were excavated to approximately 2'-3' below the water table to insure removal of all soil impacts.

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.



Soil Analytical Data Reports



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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: East Side 4-pt Composite 3'-6'

 Project:
 NYE LS 1A
 Collection Date: 9/19/2012 9:30:00 AM

 Lab ID:
 1209928-001
 Matrix: SOIL
 Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL Qu	al 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 RAI	NGE				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

- 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
- Spike Recovery outside accepted recovery limits 1 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NE Corner 4'-5'

Project: NYE LS 1A Collection Date: 9/19/2012 9:37:00 AM Lab ID: 1209928-002 Matrix: SOIL Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG					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 RA	NGE					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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits 2 of 15

Analytical Report Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: North Wall 35' East of Well

Project: NYE LS 1A Collection Date: 9/19/2012 9:58:00 AM Lab ID: 1209928-003 Matrix: SOIL Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL Q	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: NS					
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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits 3 of 15

Analytical Report Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: North Wall 30' West of Well

Project: NYE LS 1A Collection Date: 9/19/2012 10:17:00 AM

Received Date: 9/21/2012 10:00:00 AM Lab ID: 1209928-004 Matrix: SOIL

Analyses	Result	RL Qu	al 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 RANG	GE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits Page 4 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NW Wall 2-pt composite 3'-6'

Project: NYE LS 1A Collection Date: 9/19/2012 10:38:00 AM 1209928-005 Lab ID: Matrix: SOIL Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL Qu	al 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 RAN	GE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits 5 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: West Wall 42' SW of Well 3'-6'

 Project:
 NYE LS 1A
 Collection Date: 9/19/2012 10:57:00 AM

 Lab ID:
 1209928-006
 Matrix: SOIL
 Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E 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 RA	NGE					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

- 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 6 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1209928-007

Client Sample ID: West Area 2-pt composite 3'-6'

Project: NYE LS 1A

Lab ID:

Collection Date: 9/19/2012 11:17:00 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)	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 RAI	NGE					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

Matrix: SOIL

Map ID: G

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 7 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: West Center Wall 2-pt composite

 Project:
 NYE LS 1A
 Collection Date: 9/19/2012 11:40:00 AM

 Lab ID:
 1209928-008
 Matrix: SOIL
 Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE 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 R	ANGE				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

- 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 8 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NYE LS 1A

1209928-009

Lab ID:

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 RANG	GE 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 R	ANGE					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

Matrix: SOIL

Note: This area subsequently excavated

Map ID: 1

- 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 9 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Analyst: SRM

9/26/2012 1:37:11 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1209928-010

EPA METHOD 300.0: ANIONS

Chloride

Client Sample ID: South Wall 4-pt composite 3'-6'

Project: NYE LS 1A

Lab ID:

Collection Date: 9/19/2012 12:08:00 PM Received Date: 9/21/2012 10:00:00 AM

10

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

15

mg/Kg

Matrix: SOIL

Map ID: J

15

- 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 10 of 15

Lab Order 1209928

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SW Corner-West Side 2-pt comp **CLIENT:** Blagg Engineering

NYE LS 1A Collection Date: 9/19/2012 12:24:00 PM **Project:** Lab ID: 1209928-011 Matrix: SOIL Received Date: 9/21/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E 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 RA	NGE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits 11 of 15

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

RPDLimit

Analyte

Result **PQL** ND 1.5 SPK value SPK Ref Val

%REC

LowLimit HighLimit

%RPD

Qual

Chloride

Client ID:

Sample ID LCS-3890

LCSS

SampType: LCS Batch ID: 3890

RunNo: 5743 SeqNo: 165131

Units: mg/Kg

Analyte

Prep Date:

9/24/2012

Analysis Date: 9/24/2012

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Qual

Result PQL

0

15.00

94.9

110

Chloride

TestCode: EPA Method 300.0: Anions

RPDLimit

Qualifiers:

- E Value above quantitation range
 - P Sample pH greater than 2
- Value exceeds Maximum Contaminant Level.
 - Analyte detected below quantitation limits
- Analyte detected in the associated Method Blank

H

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 12 of 15

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209928**

01-Oct-12

Client: Blagg Engineering
Project: NVF I S 14

Project: NYE L	S 1A							
Sample ID MB-3878	SampType: MBLK	TestCode: EPA Method	8015B: Diesel Range Or	rganics				
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 Or	rganics				
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 Or	rganics				
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					

- * 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, Inc.

WO#:

1209928

01-Oct-12

Client:

Blagg Engineering

Project:

NYE LS 1A

											Name de la constant d	
Sample ID	MB-3879	SampType: MBLK			TestCode: EPA Method 8015B: Gasoline Range							
Client ID:	PBS	Batch I	D: 38	79	R	RunNo: 5	692					
Prep Date:	9/21/2012	Analysis Dat	e: 9/	22/2012	S	SeqNo: 1	63520	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Ranç	ge Organics (GRO)	ND	5.0									
Surr: BFB		980		1000		98.2	84	116				
Sample ID	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 Rang	ge Organics (GRO)	23	5.0	25.00	0	93.2	74	117				
Surr: BFB		1000		1000		101	84	116				
Sample ID	ID 5ML RB SampType: MBLK				TestCode: EPA Method 8015B: Gasoline Range							
Client ID:	PBS	Batch ID: R5753			RunNo: 5753							
Dran Data		Analysis Date: 9/25/2012			SeqNo: 165877				Units: %REC			
Prep Date:		Analysis Dat	e: 9/	25/2012	S	eqNo: 1	65877	Units: %RE	С			
Analyte			e: 9 / PQL		S SPK Ref Val	•	65877 LowLimit	Units: %REG	C %RPD	RPDLimit	Qual	
						•				RPDLimit	Qual	
Analyte Surr: BFB	2.5UG GRO LCSB	Result 980	PQL	SPK value 1000	SPK Ref Val	%REC 98.3	LowLimit 84	HighLimit	%RPD		Qual	
Analyte Surr: BFB		Result 980	PQL be: L0	SPK value 1000	SPK Ref Val	%REC 98.3	LowLimit 84 PA Method	HighLimit 116	%RPD		Qual	
Analyte Surr: BFB Sample ID	LCSS	Result 980 SampTyp	PQL De: LC	SPK value 1000 :s :753	SPK Ref Val	%REC 98.3	LowLimit 84 PA Method 6753	HighLimit 116	%RPD		Qual	
Analyte Surr: BFB Sample ID Client ID:	LCSS	Result 980 SampTyp Batch II	PQL De: LC	SPK value 1000 :S :753 :25/2012	SPK Ref Val	%REC 98.3 tCode: El RunNo: 5	LowLimit 84 PA Method 6753	HighLimit 116 8015B: Gaso	%RPD		Qual	

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- 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

Client:

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 9/25/2012

SPK value SPK Ref Val

1.000

Result

1.0

Blagg Engineering

WO#: 1

1209928

01-Oct-12

Project:	NYE LS	1A									
Sample ID	MB-3879	SampT	ype: ME	BLK	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-Bron	nofluorobenzene	1.0		1.000		99.9	80	120			
Sample ID	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-Bron	nofluorobenzene	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: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.98		1.000		98.2	80	120			
Sample ID	Sample ID 100NG BTEX LCS SampType: LCS				TestCode: EPA Method 8021B: Volatiles						
Client ID:	ent ID: LCSS Batch ID: R5753			RunNo: 5753							

Qualifiers:

Prep Date:

Surr: 4-Bromofluorobenzene

Analyte

- * 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

SeqNo: 165903

%REC

103

Units: %REC

120

%RPD

RPDLimit

Qual

HighLimit

80

R RPD outside accepted recovery limits



Hall Enviro

ntal Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

BLAGG Work Order Number: 1209928 Client Name: Received by/date: Michaels Corne Logged By: Michelle Garcia 9/21/2012 10:00:00 AM Completed By: Michelle Garcia 9/21/2012 10:22:17 AM Reviewed By: 10 09/21/12 Chain of Custody Yes No Not Present ✓ 1 Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In Yes V No NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes 🗸 No 🗌 5. Was an attempt made to cool the samples? NA [Yes V No 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7 Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9 Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes No V 10. Was preservative added to bottles? Yes No No VOA Vials 11 VOA vials have zero headspace? □ No V 12. Were any sample containers received broken? # of preserved Yes V No 13 Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Adjusted? Yes V No 15. Is it clear what analyses were requested? Yes V No 16 Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes No NA V 17. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax By Whom: Via: In Person Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Condition | Seal Intact | Seal No | Cooler No Temp °C Seal Date Signed By Good

C	Chain-of-Custody Record		Turn-Around	Time:										rar es		D. I F	ME	BIT	A.I		
Client:	BLAGO	ENG)	NEERING INC.	□ Standard	Rush	5-DAYS													NTA	RY	
-	RP A	MERICA	Α.	Project Name	e:						W/W/W	/.hal	lenv	ironr	nent	al.co	om				
Mailing	Address	P.O.	Box 87		LS 1A			49	01 H	awki								109			
E	200M	FIELD	NM 97413	Project #:				Te	el. 50	5-34	5-39	ACCRECATION.	THE RESERVE	ax	The same of the same of	Action and the last	DOMESTIC OF STREET	7			
Phone:	#: 50	5-63	32-1199		V-1							A	naly	sis	Req	uest					
email o				Project Mana	ger:			nly)	sel)					04)							
QA/QC	Package:		☐ Level 4 (Full Validation)	J. I	SLAG6		s (8021)	TPH (Gas only)	as/Die					PO ₄ ,S(PCB's						
Accredi				Sampler:	T. BLAGE)	#	H	3 (G					02,	8082						_
□ NEL	AP	□ Othe	r	On Ice: YYes No			H		15E	18.	94.	AH		3,7	8/8		(A)	W			N IC
□ EDD	□ EDD (Type)			Sample Tem	derature, Zi	Philip Charles	H	BE	1 80	4 6	9 5 bi	or P	tals	N,	ides	7	9	9			\succeq
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	and the same of the same	BTEX + WE	BTEX + MTBE +	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
1/19/12	0930	SOIL	EAST SIDE 4-pt COMPOSITE 3-6	402×1	COOL	-001	X		X									X			
£ 4	0937	11	NE CORNER 4-5	1.1	()	-002			X	-											
11	0958	11	NORTH WALL 35 EAST OF Well	10	1(-003	X		X									X			
11	1017	şı	NORTH WALL 30' WEST OF Well	IX.	1(-004	X		×									X			
it	1038	11	NW WALL 2-pt composite 3'-6'	{1	11	-005	X		X									8			
tt	1054	16	WEST WALL 42' SW OF Well 3-6	1¢	14	-006			X												
H	1117	*1	WEST AREA 2-PC COMPUSITE 3'-6"	15	1.0	-007	X		×									X			
řl	1140	11	WEST CENTER WALL 2-Pt composite 3-6	13	11	-008	×		X									X			
N	1150	i (SOUTH HOT SPOT	15	11	-009			X												
**	1208	11	SOUTH WALL 4-Pt	ŧ(1(-010	X		X									X			
ic	1224	11	SW CORNER-WEST SIDE 2-pt composite	ic	1(-011	X		X									X			
1.3																					
Date:	W/12 1402 Jeff Blogs		y Blogs	Received by:	Waley	9/29/12 1402	Remarks: GRO + DRO ON 8015B														
Profiz	Time:	Relinquishe	ethe Weeter	Received by: Date Time MULLING INCLUDE JEFF PEACE (BP) with E-N contracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report							-	AIL									



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

Client Sample ID: TH 40'N82.5E

Project: NYE LS 1A Collection Date: 10/4/2012 9:35:00 AM Lab ID: 1210344-001 Matrix: SOIL Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL Qu	al 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 RAN	IGE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits R
 - Spike Recovery outside accepted recovery limits 1 of 11

Lab Order 1210344 Date Reported: 10/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH32'S53E

Project: NYE LS 1A Collection Date: 10/4/2012 9:49:00 AM Lab ID: 1210344-002 Matrix: SOIL Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL Qu	al 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 RAN	GE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits 2 of 11

Lab Order 1210344

Date Reported: 10/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH84'S44W

Project: NYE LS 1A Collection Date: 10/4/2012 10:03:00 AM

Lab ID: 1210344-003

Matrix: SOIL

Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL Qu	al 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 RAI	NGE				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

- 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

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
 - RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits 3 of 11

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH106'S28W

Project: NYE LS 1A

Collection Date: 10/4/2012 10:13:00 AM

Lab ID: 1210344-004

Matrix: SOIL

Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL Qu	al 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 RAN	GE				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

- 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 4 of 11

Lab Order 1210344

Date Reported: 10/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH125'S33E

Project: NYE LS 1A Collection Date: 10/4/2012 10:25:00 AM

Lab ID: 1210344-005

Matrix: SOIL

Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE 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 R	ANGE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 5 of 11

Lab Order 1210344

Date Reported: 10/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: HA83'S40E

Project: NYE LS 1A Collection Date: 10/4/2012 10:52:00 AM Lab ID: 1210344-006 Matrix: SOIL Received Date: 10/5/2012 10:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE 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 RA	ANGE				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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits 6 of 11

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

LowLimit

TestCode: EPA Method 300.0: Anions

LowLimit

90

PBS Client ID:

Batch ID: 4165

RunNo: 6085

Prep Date: 10/8/2012 Analysis Date: 10/9/2012

SeqNo: 175561

Units: mg/Kg

Result PQL

SPK value SPK Ref Val %REC

HighLimit

RPDLimit Qual %RPD

Analyte Chloride

Client ID:

ND 1.5

Sample ID LCS-4165

LCSS

SampType: LCS Batch ID: 4165

RunNo: 6085

Prep Date: 10/8/2012

Analysis Date: 10/9/2012

1.5

SeqNo: 175562

Units: mg/Kg

Analyte

Result PQL

%RPD **RPDLimit** Qual

Chloride

15

15.00

SPK value SPK Ref Val %REC 0

101

HighLimit 110

Qual

Client ID:

Sample ID 1210357-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

RunNo: 6085

Prep Date:

BatchQC 10/8/2012 Batch ID: 4165

SeqNo: 175578

Units: mg/Kg

Analyte

Analysis Date: 10/9/2012

Result PQL SPK value SPK Ref Val 55 15 15.00 37.92

%REC LowLimit 114

HighLimit 117

%RPD **RPDLimit** Qual

Chloride

Client ID:

Prep Date:

Sample ID 1210357-001AMSD

BatchQC

SampType: MSD

TestCode: EPA Method 300.0: Anions

Batch ID: 4165

RunNo: 6085

Units: mg/Kg

Analyte

10/8/2012

55

Result

Analysis Date: 10/9/2012

SPK value

15.00

SeqNo: 175579

64.4

%RPD

RPDLimit

Chloride

PQL

15

SPK Ref Val

37.92

%REC 115 LowLimit 64.4 HighLimit 117

0.534

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND R RPD outside accepted recovery limits Page 7 of 11

Sample pH greater than 2

Blagg Engineering

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Project:	NYE LS	1A						
Sample ID	MB-4147	SampTyp	e: MBLK	Test	Code: EPA Method	8015B: Diesel Ra	ange Organics	
Client ID:	PBS	Batch II	D: 4147	Ru	unNo: 6027			
Prep Date:	10/5/2012	Analysis Dat	e: 10/6/2012	Se	eqNo: 173596	Units: mg/Kg		
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	10	***************************************				
Surr: DNOP		10	10.00		101 77.6	140		
Sample ID	MB-4148	SampTyp	e: MBLK	Test	Code: EPA Method	8015B: Diesel Ra	ange Organics	
Client ID:	PBS	Batch II	D: 4148	Ru	unNo: 6027			
Prep Date:	10/5/2012	Analysis Dat	e: 10/6/2012	Se	eqNo: 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	SampTyp	oe: LCS	Test	Code: EPA Method	8015B: Diesel Ra	ange Organics	THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SE
Client ID:	LCSS	Batch II	D: 4147	Ru	unNo: 6027			
Prep Date:	10/5/2012	Analysis Dat	e: 10/6/2012	Se	eqNo: 173598	Units: mg/Kg		
Analyte		Result	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPDLimit	Qual
Diesel Range (rganics (DRO)	35	10 50.00		69.4 52.6	130		
Surr: DNOP		4.3	5.000		85.4 77.6	140		
Sample ID	LCS-4148	SampTyp	e: LCS	Test	Code: EPA Method	8015B: Diesel Ra	ange Organics	
Client ID:	LCSS	Batch II	D: 4148	Ru	unNo: 6027			
Prep Date:	10/5/2012	Analysis Dat	e: 10/6/2012	Se	eqNo: 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	SampTyp	oe: MS	Test	Code: EPA Method	8015B: Diesel Ra	ange Organics	
Client ID:	BatchQC	Batch II	D: 4138	Ru	unNo: 6027			
Prep Date:	10/5/2012	Analysis Dat	e: 10/7/2012	Se	eqNo: 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	SampTyp	pe: MS	Test	Code: EPA Method	8015B: Diesel Ra	ange Organics	

Qualifiers:

Client ID:

Analyte

Surr: DNOP

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

TH 40'N82.5E

Prep Date: 10/5/2012

Diesel Range Organics (DRO)

Batch ID: 4147

Analysis Date: 10/6/2012

PQL

9.7

SPK value SPK Ref Val

48.31

4.831

Result

35

4.4

- 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

RunNo: 6027

%REC

72.7

90.2

SeqNo: 173632

LowLimit

57.2

77.6

Units: mg/Kg

146

140

%RPD

HighLimit

R RPD outside accepted recovery limits

RPDLimit

Qual

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

BatchQC Client ID:

Batch ID: 4138

RunNo: 6027

Prep Date: 10/5/2012

Diesel Range Organics (DRO)

Analysis Date: 10/7/2012

SeqNo: 173633

Units: %REC

RPDLimit

0

Qual

Surr: DNOP

Analyte

Result

Result

36

4.6

4.0

5.097

SPK value SPK Ref Val

0

51.39

5.139

%REC SPK value SPK Ref Val 77.7

LowLimit 77.6 HighLimit 140

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD 0

0

Qual

Sample ID 1210344-001AMSD Client ID:

TH 40'N82.5E

SampType: MSD Batch ID: 4147

RunNo: 6027

57.2

77.6

LowLimit

146

140

Prep Date:

Surr: DNOP

Analyte

10/5/2012

Analysis Date: 10/6/2012

10

SeqNo: 173634 %REC

70.5

88.9

Units: mg/Kg HighLimit

%RPD

0

RPDLimit 3.11 24.5

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1210344**

09-Oct-12

Client: Blagg Engineering

Project:	NYE LS	1A									
Sample ID	MB-4146	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	
Client ID:	PBS	Batch	ID: 41	46	F	RunNo: 6	045				
Prep Date:	10/5/2012	Analysis D	ate: 10	0/7/2012	S	SeqNo: 1	74157	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		102	84	116			
Sample ID	LCS-4146	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Gase	oline Rang	e	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Client ID:	LCSS	Batch	ID: 41	46	R	RunNo: 6	045				
Prep Date:	10/5/2012	Analysis D	ate: 10	0/7/2012	S	SeqNo: 1	74158	Units: mg/l	⟨ g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	5.0	25.00	0	102	74	117			
Surr: BFB		1100		1000		108	84	116			
Sample ID	1210321-001AMS	SampT	ype: MS	3	Test	Code: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	BatchQC	Batch	ID: 41	46	R	lunNo: 6	045				
Prep Date:	10/5/2012	Analysis D	ate: 10	0/6/2012	S	eqNo: 1	74160	Units: mg/k	⟨ g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	27	4.9	24.63	1.166	104	70	130			
Surr: BFB		1100		985.2		107	84	116			Management designation of the second second second
Sample ID	1210321-001AMSI	D SampT	ype: MS	SD	Test	Code: E	PA Method	8015B: Gaso	oline Rang	e	man post and a second
Client ID:	BatchQC	Batch	ID: 41	46	R	lunNo: 6	045				
Prep Date:	10/5/2012	Analysis D	ate: 10	0/6/2012	S	SeqNo: 1	74161	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e 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	

- * 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, Inc.

WO#: **1210344**

09-Oct-12

Client:

Blagg Engineering

Project:

NYE LS 1A

Sample ID MB-4146	SampType	e: MBLK	TestCode: E	PA Method	8021B: Volat	iles			
Client ID: PBS	Batch ID	2: 4146	RunNo: 6045						
Prep Date: 10/5/2012	Analysis Date	e: 10/7/2012	SeqNo: 1	74190	Units: mg/K	g			
Analyte	Result F	PQL SPK value	SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND 0	0.050							
Toluene	ND 0	0.050							
Ethylbenzene	ND 0	0.050							
Xylenes, Total	ND	0.10							
Surr: 4-Bromofluorobenzene	1.1	1.000	110	80	120				
Sample ID LCS-4146	SampType	e: LCS	TestCode: E	PA Method	8021B: Volat	iles			

Sample ID LCS-4146	Sample ID LCS-4146 SampType: LCS						TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	ID: 41	46	RunNo: 6045											
Prep Date: 10/5/2012	Analysis D	ate: 10	0/7/2012	S	eqNo: 1	74191	Units: mg/K	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	Sampi	ype: MS	5	les	tCode: El	PA Method	8021B: Volat	illes		
Client ID: TH 40'N82.5E	Batch	1D: 41 4	46	F	RunNo: 6	045				
Prep Date: 10/5/2012	Analysis D	ate: 10)/7/2012	8	SeqNo: 1	74193	Units: mg/K	(g		
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 1210344-001AM	SD SampTy	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: TH 40'N82.5E	Batch	ID: 414	46	F	RunNo: 6	045				
Prep Date: 10/5/2012	Analysis Da	ate: 10	/7/2012	S	SeqNo: 1	74194	Units: mg/K	(g		
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

Page 11 of 11



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

Sample Log-In Check List

Client Name: BLAGG	Work Order Number: 1210344
Received by/date:	
Logged By: Anne Thorne 10/5/2012 10:10:00	AM Ame The
Completed By: Anne Thorne 10/5/2012	On. It
Reviewed By:	Clark Ja
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
<u>Log In</u>	
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 V 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 1.4 Good Not Present	Orgino by

C	hain	of-Cu	stody Record	Turn-Around	Time:	Br WED							green (<i>,</i>				10. H	
Client:	BLAG	GEN	GINEERING INC.	☐ Standard	Rush	Br WED 10/10/2012													NT	
	3PA	MERL	CA	Project Name	E LS	4 0				1	wwv	v.ha	llenv	ironi	ment	tal.co	om			
Mailing	Address	P.O.	Box 87	IVP	E 45	IH		490)1 H	awki	ns N	۱E -	Alb	uqu	erqu	e, N	M 87	7109		
B	LOOM	FIELD	NM 87413	Project #:				Те	1. 50	5-34	5-39	975	F	ax	505-	345	-4 10	7		
Phone ?	#: 50	5-6	32-1199									Д	naly	/sis	Req	uesi	t			
email or			*	Project Mana	ger:		=	only)	sel)					04)						
QA/QC F	-		☐ Level 4 (Full Validation)	J.	BLAGE		's (8021)	+ TPH (Gas o	(Gas/Diesel)					,PO4,S	PCB's				many the second	
Accredi				Sampler: J	T. BLAGO	0	1	F		7	=	=		10 ₂	8082					E
□ NEL		□ Othe	er	On Ice:	The same of the sa	Ţ No ·	F	+	015	418.	504	PAH	S	O,	3 / S		OA)	M		or
□ EDD	(Type)_			Sample Temp	érature - 1 4		131	MTBE	8 pc	pol	90	0	eta	C,N	cide	(A))-i	4		\\ \times \(\)
Date	Time	Matrix	Sample Request ID	Container Type and #	Type	HEAL NO.	BTEX + WITB	BTEX + M	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHLURIDE		Air Bubble
14/12	0935	SOIL	TH 40 N82 & E	407×1	COOL	-001	X	-	X									X		
11	0949	ч	TH32'853E	11	u	-002	X		X									X		
u	1003	u	TH 84'S 44W	¥	и	~ 03	X		X									X		
il	1013	ч	TH106'\$ 28W	11	4	-004	Y		X									X		
£C.	1025	11	TH 125' \$ 33 E	łį	ч	-005	X		X									X		
il	1052	l)	1 HA 83' 540E	1/	1/	-006	×		X									X		T
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Date: 0/4/12 Date:	Time: 1418 Time:	Relinquish Relinquish	ed by: Alyg ed by:	Received by: Received by:	Weete	Date Time 10 11 12 14 18 Date Time		arks 314	:	GR Bu	A	4	DR	0	Ox	' '	101	5		
94/12	1708	Chru	mitted to Hall Environmental may be subc	ontracted to other as	10	05/12/010													- Lucari	

Groundwater Monitor Well Laboratory Analytical Data Reports



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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #1

 Project:
 NYE LS #1A
 Collection Date: 8/17/2013 7:40:00 AM

 Lab ID:
 1308871-001
 Matrix: AOUEOUS
 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 8/21/2013 12:18:43 PM R12796 1.0 µg/L Toluene ND 1.0 µg/L 8/21/2013 12:18:43 PM R12796 Ethylbenzene ND 1.0 1 8/21/2013 12:18:43 PM R12796 µg/L Xylenes, Total ND 2.0 µg/L 1 8/21/2013 12:18:43 PM R12796 Surr: 4-Bromofluorobenzene %REC 8/21/2013 12:18:43 PM R12796 106 69.4-129 1 **EPA METHOD 300.0: ANIONS** Analyst: JRR Fluoride 0.71 0.10 8/21/2013 11:30:25 AM R12802 mg/L 1 Chloride 27 10 mg/L 8/21/2013 12:07:39 PM R12802 8/21/2013 11:17:40 PM R12802 Nitrate+Nitrite as N ND 1.0 mg/L Sulfate 10 mg/L 8/21/2013 12:07:39 PM R12802 **EPA METHOD 200.7: DISSOLVED METALS** Analyst: ELS 8/26/2013 8:13:10 PM R12893 0.65 0.020 mg/L SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS Total Dissolved Solids 750 200 mg/L 8/23/2013 8:19:00 AM

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

- 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 Page 1 of
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308871

Date Reported: 9/3/2013

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 Q	ual 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	6
Toluene	ND	1.0	μg/L	1 8/21/2013 12:48:46 PM R12796	6
Ethylbenzene	ND	1.0	μg/L	1 8/21/2013 12:48:46 PM R12796	6
Xylenes, Total	ND	2.0	μg/L	1 8/21/2013 12:48:46 PM R12796	6
Surr: 4-Bromofluorobenzene	105	69.4-129	%REC	1 8/21/2013 12:48:46 PM R12796	6
EPA METHOD 300.0: ANIONS				Analyst: JRR	
Fluoride	0.42	0.10	mg/L	1 8/21/2013 12:20:04 PM R12802	2
Chloride	44	10	mg/L	20 8/21/2013 12:32:29 PM R12802	2
Nitrate+Nitrite as N	ND	1.0	mg/L	5 8/21/2013 11:30:05 PM R12802	2
Sulfate	540	10	mg/L	20 8/21/2013 12:32:29 PM R12802	2
EPA METHOD 200.7: DISSOLVED ME	TALS			Analyst: ELS	
Iron	3.6	0.10	* mg/L	5 8/26/2013 8:25:02 PM R12893	3
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.

- * 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 Page
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Analytical Report Lab Order 1308871

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/3/2013

CLIENT: Blagg Engineering Client Sample ID: MW #3

Project: NYE LS #1A Collection Date: 8/17/2013 10:00:00 AM

Lab ID: 1308871-003 Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al 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 ME	TALS				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.

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

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #4

Project: NYE LS #1A

Collection Date: 8/17/2013 10:45:00 AM

Lab ID: 1308871-004

Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: 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					Analys	t: 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 MET	ΓALS				Analys	t: ELS
Iron	0.057	0.020	mg/L	1	8/26/2013 8:37:20 PM	R12893
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analys	t: 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.

- * 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 Page 4 of
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #5

Project: NYE LS #1A Collection Date: 8/17/2013 12:10:00 PM

Lab ID: 1308871-005 Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Q	ual 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 MET	ALS				Analyst	ELS
Iron	ND	0.020	mg/L	1	8/26/2013 8:45:30 PM	R12893
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				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.

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Not Detected at the Reporting Limit Page 5 of 12 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #6

NYE LS #1A **Project: Collection Date: 8/17/2013 11:30:00 AM** Lab ID: 1308871-006 Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qu	al 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 ME	TALS				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.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 6 of 12 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

Lab Order 1308871

Date Reported: 9/3/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #7

Project: NYE LS #1A

Collection Date: 8/17/2013 9:10:00 AM

Lab ID: 1308871-007 Matrix: AQUEOUS Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL Qı	ual 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 ME	ETALS				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.

- 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 Page 7.
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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

PQL

RunNo: 12893

Prep Date: Analysis Date: 8/26/2013

Analyte

SeqNo: 367533

Units: mg/L

HighLimit

%RPD

RPDLimit

Qual

Iron

ND 0.020

Result

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

PQL SPK value SPK Ref Val

97.7

%REC LowLimit

LowLimit

HighLimit

%RPD

RPDLimit Qual

Result 0.49

0.5000

Iron

0.020

0

SPK value SPK Ref Val %REC

115

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range E

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits В Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND

P Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Not Detected at the Reporting Limit Page 8 of 12

Client:

Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering

WO#: **1308871**

03-Sep-13

Project:	NYE LS #										
Sample ID	MB	SampT	уре: М	BLK	Tes	Code: El	PA Method	300.0: Anions	3		
Client ID:	PBW	Batch	ID: R1	2802	F	tunNo: 1	2802				
Prep Date:		Analysis D	ate: 8/	21/2013	S	SeqNo: 30	64935	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	SampT	ype: LC	s	Tes	Code: El	PA Method	300.0: Anions	5		
Client ID:	LCSW	Batch	ID: R 1	2802	F	tunNo: 1	2802				
Prep Date:		Analysis D	ate: 8/	21/2013	S	SeqNo: 30	64937	Units: mg/L			
Analyte		Result	PQL		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	N	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	SampT	ype: MS	5	Tes	Code: El	PA Method	300.0: Anions	5		
Client ID:	MW #1	Batch	ID: R1	2802	F	RunNo: 1	2802				
Prep Date:		Analysis D	ate: 8	21/2013	8	SeqNo: 30	64939	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	1308871-001BMSE	SampT	ype: MS	SD	Tes	Code: El	PA Method	300.0: Anions	S		
Client ID:	MW #1	Batch	ID: R1	2802	F	lunNo: 1	2802				
Prep Date:		Analysis D	ate: 8/	21/2013	S	SeqNo: 30	64940	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	SampT	уре: М	3	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	BatchQC	Batch	ID: R1	2802	F	RunNo: 1	2802				
Prep Date:		Analysis D	ate: 8	21/2013	S	SeqNo: 3	64962	Units: mg/L			
							Lauri inait	HighLimit	%RPD	DDDI imit	01
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HIGHLIIIII	MAPD	RPDLimit	Qual
Analyte Fluoride		Result 1.1	PQL 0.10	0.5000	0.6796	91.1	76.9	114	70KPD	RPDLIMIT	Quai
						-	76.9 89.9		70KPD	RPDLIMIL	Quai
Fluoride		1.1	0.10	0.5000	0.6796	91.1	76.9	114	70KFD	RPDLIMIL	Quai

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

Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308871

03-Sep-13

Client:

Blagg Engineering

Project:

NYE LS #1A

		‡1A									
Sample ID	1308898-001BMSD	SampTy	pe: MS	SD	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID:	BatchQC	Batch	ID: R1	2802	F	RunNo: 12802					
Prep Date:		Analysis Da	ite: 8/	21/2013	S	SeqNo: 30	64963	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	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID:	PBW	Batch	ID: R1	2802	F	RunNo: 12	2802				
Prep Date:		Analysis Da	ite: 8/	22/2013	8	SeqNo: 30	65005	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	SampTy	pe: LC	S	Tes	tCode: El	PA Method	300.0: Anions	3		
Client ID:	LCSW	Batch	ID: R1	2802	F	RunNo: 12	2802				
Prep Date:		Analysis Da	ate: 8/	22/2013	S	SeqNo: 30	65006	Units: mg/L			
		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		rtosuit	. ~-								
Analyte Fluoride		0.51	0.10	0.5000	0	103	90	110			
					0	103 97.5	90 90	110 110			
Fluoride		0.51	0.10	0.5000							

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

Page 10 of 12

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: SeqNo: 364721 Units: µg/L Analysis Date: 8/21/2013 %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 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 LC	S SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: LCSW	Batch	ID: R1	2796	F	RunNo: 1	2796				
Prep Date:	Analysis D	ate: 8/	21/2013	8	SeqNo: 3	64722	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

Page 11 of 12

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

Result

RunNo: 12829 SeqNo: 365551

Units: mg/L

Prep Date: Analyte

Analysis Date: 8/23/2013 PQL

SPK value SPK Ref Val %REC LowLimit HighLimit

RPDLimit Qual

Total Dissolved Solids

ND 20.0

Sample ID LCS-8968

8/21/2013

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

%RPD

Client ID: LCSW

Batch ID: 8968

RunNo: 12829

Units: mg/L

Prep Date: Analyte

Client ID:

Analyte

Analysis Date: 8/23/2013 8/21/2013

SeqNo: 365552 SPK value SPK Ref Val 0

LowLimit

HighLimit

RPDLimit

Total Dissolved Solids

PQL Result 1030 20.0

1000

%REC 103

%RPD

Qual

Sample ID 1308726-002EMS

SampType: MS

TestCode: SM2540C MOD: Total Dissolved Solids

120

Prep Date: 8/21/2013

BatchQC

Sample ID 1308726-002EMSD

BatchQC

Batch ID: 8968 Analysis Date: 8/23/2013 RunNo: 12829 SeqNo: 365556

Units: mg/L

Result 8160

Result

8090

PQL

SPK value SPK Ref Val 6104

%REC LowLimit 103

HighLimit 120 %RPD **RPDLimit**

Qual

Total Dissolved Solids

SampType: MSD

40.0

TestCode: SM2540C MOD: Total Dissolved Solids

RunNo: 12829

Prep Date: 8/21/2013 Batch ID: 8968

SeqNo: 365557

Units: mg/L

Qual

Analyte Total Dissolved Solids

Client ID:

Analysis Date: 8/23/2013 PQL

40.0

2000

2000

SPK value SPK Ref Val 6104

%REC 99.3

LowLimit

HighLimit 120

0.862

%RPD

RPDLimit

5

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits В

Н Holding times for preparation or analysis exceeded

Sample pH greater than 2 for VOA and TOC only.

ND Not Detected at the Reporting Limit

Analyte detected in the associated Method Blank

Page 12 of 12

Reporting Detection Limit

1 Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

VIRONMENTAL ANALYSIS LABORATORY

пин Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Website: www.hallenvironmental.com

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107

Client Name:	BLAGG	Work Order Number:	1308871		RcptNo:	1
Received by/dat	e. LM 08/20	://3		4		
Logged By:	Anne Thorne	8/20/2013 9:50:00 AM		anne Am	-	
Completed By:	Anne Thorne	8/20/2013		anne Am	_	
Reviewed By:	Ma	08/2/13				
Chain of Cus	stody	l				
1. Custody sea	als intact on sample bottles?		Yes	No 🗌	Not Present	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	e sample delivered?		Courier			
Log In						
4. Was an atte	empt made to cool the sample	s?	Yes 🗸	No 🗌	NA 🗆	
5. Were all sar	mples received at a temperatu	re of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
6. Sample(s) i	n proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sa	ample volume for indicated tes	t(s)?	Yes 🗸	No 🗔		
8. Are samples	s (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌		
9. Was presen	vative added to bottles?		Yes	No 🗸	NA 🗆	
10.VOA vials h	ave zero headspace?		Yes 🗹	No 🗆	No VOA Vials	
11. Were any s	ample containers received bro	ken?	Yes	No 🗸	# of preserved	
12 D	ada us atab b attle leb ala O		Yes 🗸	No 🗌	bottles checked for pH:	4
	work match bottle labels? epancies on chain of custody)		res 💌	NO L	(€2)pr	> 2 unless noted)
13. Are matrices	s correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	NO
14. Is it clear wi	hat analyses were requested?		Yes 🗸	No 🗌		1
	Iding times able to be met?		Yes 🗸	No 🗆	Checked by:	P
(If no, notify	customer for authorization.)					V
Special Hand	dling (if applicable)					
	notified of all discrepancies wit	h this order?	Yes	No 🗌	NA 🗹	
Perso	n Notified:	Date		A Charles and Australia		
By WI	hom:	Via:	eMail F	Phone Fax	n Person	
Regar	rding:					
Client	Instructions:					
17. Additional r	remarks:			8 .		
18. Cooler Infe	ormation					
Cooler N	1 1	Seal Intact Seal No S	Seal Date	Signed By		
1	1.0 Good 1	'es	Province and the second section of the section of th	and the best of the state of th		

nain-c	or-Cus	stody Record	Turn-Albuna i	mic.		١,	1	1 1	Н	A	1	F	NV	TE	50	NI	MF	T	ΔΙ	
BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush																
			Project Name:	The same of the sa	The state of the s		omen)	trin de												•
ddress:	P.O. BO	X 87		NYE LS # 1	.A		49	01 H	awki	ns N	VE -	Alb	uqu	erqu	ue, N	MI	7109)		
	BLOOM	FIELD, NM 87413	Project #:				Te	1. 50	5-34	5-39	975	Allenvironmental.com - Albuquerque, NM 87109 - Fax 505-345-4107 - Analysis Request - Lotal Dissolved Solids - Iron, Ferrons (filtered) - V - V - V - V - V - V - V - V - V - V								
	(505) 63	2-1199				Analysis Request														
Fax#:			Project Manag	er:					T				4				П	T	T	T
_		Level 4 (Full Validation)		NELSON VE	LEZ	(80218	only)	MRO)			15)		POZ,SO			anı	-			9
tion:			Sampler:	NELSON VE	LEZ	4	(Gas	RO/	1)	1)	SIS	MIT	\$	lids	red	1				mp
D	☐ Other		On ice:	Yes		4	PH	_	118.	504.	3270	1.0	5	So k	filte	i				e sa
Type)			Sample Tempe	erature: 10		4		(GRC	po	pol	0	etals	₹	lvec	ns (e .	USOSIT
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1308 971	BTEX ←₩	BTEX + MTE	TPH 8015B	TPH (Meth	EDB (Meth	PAH (8310	00		Total Disso		Nitrate N.				5 pt. comp
0740	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-00	٧					-							1	٧	
0740	WATER	MW # 1	500 ml - 1	Cool	000								٧	٧					٧	
0740	WATER	MW # 1	125 ml - 1	HNO ₃ & Cool	-001										٧				٧	
0740	WATER	MW # 1	125 ml - 1	H₂SO ₄	-001											٧		,	٧	
0830	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-002	٧													٧	
0830	WATER	MW # 2	500 ml - 1	Cool	-60.2								٧	٧					٧	
0830	WATER	MW # 2	125 ml - 1	HNO ₃ & Cool	702										٧				٧	
0830	WATER	MW # 2	125 ml - 1	H ₂ SO ₄	7002											٧			٧	
1000	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-03	٧													٧	
1000	WATER	MW # 3	500 ml - 1	Cool	-023								٧	٧					٧	
1000	WATER	MW # 3	125 ml - 1	HNO ₃ & Cool	-003										٧				٧	
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The same of the sa	BLAG Address: Fax#: ackage: dard ation: P Type) Time 0740 0740 0740 0740 0830 0830 0830 0830 1000 1000 1000 100	BLAGG ENGR. Address: P.O. BOX BLOOMI (505) 63 Fax#: ackage: dard	BLOOMFIELD, NM 87413 (505) 632-1199 Fax#: ackage: dard	BLAGG ENGR. / BP AMERICA Project Name: Address: P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199 Fax#: Project Manage: Adard	## BLAGG ENGR. / BP AMERICA Standard Rush Project Name: NYE LS # 1	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	BLAGG ENGR. / BP AMERICA Project Name: NYE LS # 1A NYE LS # 1A ANALYSIS www.hallenviro 4901 Hawkins NE - Albuqu Tel. 505-345-3975 Fax Analysis Fax#: Project Manager: NELSON VELEZ Sampler: NELSON VELEZ NELSON VELEZ On Ice: Yes Time Matrix Sample Request ID Type Container Type and # T	Standard	Standard	BLAGG ENGR. / BP AMERICA Standard Rush Project Name: NYE LS # 1A ANALYSIS LABO NYE LS # 1A Analysis Request Project Name: NYE LS # 1A Analysis Request Project Manager: Standard Standard Project #: Project #: Tel. 505-345-3975 Fax 505-345-410 Analysis Request Project Manager: NELSON VELEZ NOTICE NOTICE NELSON VELEZ NOTICE NOTICE	BLAGG ENGR. / BP AMERICA Standard Project Name: Project Name: Www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87105 Tel. 505-345-3975 Fax 505-345-34107 Tel. 505-345-34107	Rush	Standard

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email or F	ax#:			Project Manag	jer:		<u>~</u>							(4)					T	T	\neg
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VE	LEZ	(8021B)	only)	MRO)			(S)		O4,504)			91V				0
Accreditat			· · · · · · · · · · · · · · · · · · ·	Sampler:	NELSON VE	LEZ anv	1	Gas	DRO /	1)	1	SIM	171V	F	ids	red	14				mpl
□ NELAF	o	☐ Other		On Ice:		□No	1	TPH (Gas	-	118.	904	8270SIMS)	.1.	F	Sol	ilte					e sal
□ EDD (Гуре)			Sample Tempe	erature: (10	Σ	1	+ 1	GRO	po d	bo	õ	Metals	¥,	lvec	us (1	#			e	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +**	BTEX + MTB	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Me	Anions (F,C	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N /				5 pt. composite sample
8/17/13	1045	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-604	٧													٧	11.
8/17/13	1045	WATER	MW # 4	500 ml - 1	Cool	-024								٧	٧					٧	
8/17/13	1045	WATER	MW # 4	125 ml - 1	HNO ₃ & Cool	-04										٧				٧	
8/17/13	1045	WATER	MW # 4	125 ml - 1	H₂SO ₄	-004											V			V	
8/17/13	1210	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-005	٧													٧	
8/17/13	1210	WATER	MW # 5	500 mi - 1	Cool	-065								٧	٧					٧	
8/17/13	1210	WATER	MW # 5	125 ml - 1	HNO ₃ & Cool	-005										٧				٧	
8/17/13	1210	WATER	MW # 5	125 ml - 1	H₂SO ₄	-odo											٧			٧	
8/17/13	1130	WATER	MW # 6	40 ml VOA - 2	HCI & Cool	-ode	٧													٧	
8/17/13	1130	WATER	MW # 6	500 ml - 1	Cool	-odo								٧	٧					٧	
8/17/13	1130	WATER	MW#6	125 ml - 1	HNO ₃ & Cool	-celo										٧				V	
8/17/13	1130	WATER	MW # 6	125 ml - 1	H₂SO ₄	-00b											٧			V	
Date: Date:	Time:	Relinquishe	In Vf	Received by:	Walla	Date Time 8/19/13 937 Date Time		narks e nd i n		e to	Bla		ingin ox 87		ng, Ir	ic.		Pg.	2 0	F 3	3
5 19/13	400	1 mi	tu Walter	J G	18/20	13 8950					Blo	om	field,	NM	874	13					

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 contracted data will be clearly notated as the contracted data will be contracted data will be contracted as the contracted data

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-		***************************************		Project Name:						-			allen								w. H
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-			FIELD, NM 87413	Project #:							45-3						5-410				
Phone #:		(505) 63					W-S		1, 50		73-3	S17074	Anal	10.00	Sales of	100	M = 24			41	. j
email or F	ax#:	(505) 55		Project Manag	er:																
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Accreditat				Sampler:	NELSON VE	ELEZ GNV	1	(Gas	DRO /	1)	1)	SIM	nu	6	ids	red)	911				sample
□ NELAP)	□ Other		On Ice:	☑ Yes	□ No ×	1	TPH (_	118.	504	3270		F	Sol	filte	/ Withte N				e sar
□ EDD (T	уре)			Sample Tempo	erature: 10		14	+	GRC	po 4	po	or 8	Metals	Ĭ,	lvec	us (1	E			e	osite
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +**	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Me	Anions (F,CI,NO3,NO2)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N			Grab sample	5 pt. composite
8/17/13	0910	WATER	MW # 7	40 ml VOA - 2	HCl & Cool	-007	٧													٧	
8/17/13	0910	WATER	MW # 7	500 ml - 1	Cool	7007								٧	V					٧	
8/17/13	0910	WATER	MW # 7	125 ml - 1	HNO ₃ & Cool	7007										٧				V	
8/17/13	0910	WATER	MW # 7	125 ml - 1	H₂SO ₄	-007											V			V	
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8/19/13	If necessa	and samples si	the state of the s	ubcontracted to other	accredited laboratories	113 0950	f this n	ossibili	ity Ar	ov eub			field,				ted on	the ar	alution	al rope	.+

Transcrivation time.



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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1804131

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #1

 Project:
 NYE LS 1A
 Collection Date: 4/2/2018 10:10:00 AM

 Lab ID:
 1804131-001
 Matrix: AQUEOUS
 Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	al 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	W5053
Toluene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Ethylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Naphthalene	ND	2.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1-Methylnaphthalene	ND	4.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
2-Methylnaphthalene	ND	4.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Acetone	ND	10	μg/L	1	4/13/2018 4:14:40 AM	W5053
Bromobenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Bromodichloromethane	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Bromoform	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Bromomethane	ND	3.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
2-Butanone	ND	10	µg/L	1	4/13/2018 4:14:40 AM	W5053
Carbon disulfide	ND	10	μg/L	1	4/13/2018 4:14:40 AM	W5053
Carbon Tetrachloride	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Chlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Chloroethane	ND	2.0	µg/L	1	4/13/2018 4:14:40 AM	W5053
Chloroform	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Chloromethane	ND	3.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
2-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
4-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
cis-1,2-DCE	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Dibromochloromethane	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Dibromomethane	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,2-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,1-Dichloroethane	ND	1.0	µg/L	1	4/13/2018 4:14:40 AM	W5053
1,1-Dichloroethene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,2-Dichloropropane	ND	1.0	µg/L	1	4/13/2018 4:14:40 AM	W5053
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	W5053

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2018

CLIENT: Blagg Engineering

Client Sample ID: MW #1

Project: NYE LS 1A

Collection Date: 4/2/2018 10:10:00 AM

Lab ID: 1804131-001

Matrix: AQUEOUS

Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	al 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	W5053
Hexachlorobutadiene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
2-Hexanone	ND	10	μg/L	1	4/13/2018 4:14:40 AM	W5053
Isopropylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
4-Isopropyltoluene	ND	1.0	µg/L	1	4/13/2018 4:14:40 AM	W5053
4-Methyl-2-pentanone	ND	10	μg/L	1	4/13/2018 4:14:40 AM	W5053
Methylene Chloride	ND	3.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
n-Butylbenzene	ND	3.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
n-Propylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
sec-Butylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Styrene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
tert-Butylbenzene	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
trans-1,2-DCE	ND	1.0	μg/L	1	4/13/2018 4:14:40 AM	W5053
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	W5053
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.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2018

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 NYE LS 1A
 Collection Date: 4/2/2018 11:05:00 AM

 Lab ID:
 1804131-002
 Matrix: AQUEOUS
 Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	al 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	W5053
Toluene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Ethylbenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,2,4-Trimethylbenzene	ND	1.0	µg/L	1	4/13/2018 4:44:04 AM	W5053
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Naphthalene	ND	2.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1-Methylnaphthalene	ND	4.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
2-Methylnaphthalene	ND	4.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Acetone	ND	10	μg/L	1	4/13/2018 4:44:04 AM	W5053
Bromobenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Bromodichloromethane	ND	1.0	µg/L	1	4/13/2018 4:44:04 AM	W5053
Bromoform	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Bromomethane	ND	3.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
2-Butanone	ND	10	μg/L	1	4/13/2018 4:44:04 AM	W5053
Carbon disulfide	ND	10	μg/L	1	4/13/2018 4:44:04 AM	W5053
Carbon Tetrachloride	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Chlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Chloroethane	ND	2.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Chloroform	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Chloromethane	ND	3.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
2-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
4-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
cis-1,2-DCE	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,2-Dibromo-3-chloropropane	ND	2.0	µg/L	1	4/13/2018 4:44:04 AM	W5053
Dibromochloromethane	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Dibromomethane	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,2-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,1-Dichloroethane	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,1-Dichloroethene	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,2-Dichloropropane	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
1,3-Dichloropropane	ND	1.0	μg/L	1	4/13/2018 4:44:04 AM	W5053
2,2-Dichloropropane	ND	2.0	μg/L	1	4/13/2018 4:44:04 AM	W5053

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: MW #2

CLIENT: Blagg Engineering Project: NYE LS 1A Collection Date: 4/2/2018 11:05:00 AM

> Matrix: AQUEOUS Received Date: 4/4/2018 7:40:00 AM

Analyses Result **POL Qual Units DF** Date Analyzed Batch **EPA METHOD 8260B: VOLATILES** Analyst: DJF 1,1-Dichloropropene ND 1.0 4/13/2018 4:44:04 AM W50533 µg/L 1 Hexachlorobutadiene ND 1.0 µg/L 1 4/13/2018 4:44:04 AM W50533 ND 2-Hexanone 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 1 4/13/2018 4:44:04 AM W50533 µg/L 4-Methyl-2-pentanone ND 10 µg/L 1 4/13/2018 4:44:04 AM W50533 Methylene Chloride ND 3.0 1 W50533 µg/L 4/13/2018 4:44:04 AM 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 1 W50533 µg/L 4/13/2018 4:44:04 AM Styrene ND 1.0 1 4/13/2018 4:44:04 AM W50533 µg/L tert-Butylbenzene ND 1.0 4/13/2018 4:44:04 AM µg/L 1 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 4/13/2018 4:44:04 AM 2.0 1 W50533 µg/L 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 1 4/13/2018 4:44:04 AM W50533 μg/L 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 1 4/13/2018 4:44:04 AM W50533 µg/L 1,1,1-Trichloroethane ND 1.0 4/13/2018 4:44:04 AM W50533 µg/L 1 1,1,2-Trichloroethane ND 1.0 1 4/13/2018 4:44:04 AM W50533 µg/L Trichloroethene (TCE) ND 1.0 µg/L 1 4/13/2018 4:44:04 AM W50533 Trichlorofluoromethane ND 1.0 1 µg/L 4/13/2018 4:44:04 AM W50533 1,2,3-Trichloropropane ND 2.0 1 4/13/2018 4:44:04 AM W50533 µg/L Vinyl chloride ND 1.0 µg/L 1 4/13/2018 4:44:04 AM W50533 Xylenes, Total ND 1.5 4/13/2018 4:44:04 AM µg/L 1 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 4/13/2018 4:44:04 AM W50533 Surr: Toluene-d8

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

70-130

%Rec

97.1

Qualifiers:

Lab ID:

1804131-002

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 17 J

4/13/2018 4:44:04 AM

W50533

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1804131-003

Client Sample ID: MW #3

Project: NYE LS 1A

Lab ID:

Collection Date: 4/2/2018 1:10:00 PM Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Q	ual 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

Matrix: AQUEOUS

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

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #3

Project: NYE LS 1A Collection Date: 4/2/2018 1:10:00 PM

Lab ID: 1804131-003 Matrix: AQUEOUS Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	al 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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #4

 Project:
 NYE LS 1A
 Collection Date: 4/2/2018 2:08:00 PM

 Lab ID:
 1804131-004
 Matrix: AQUEOUS
 Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Q	ual 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	W5053
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/13/2018 5:42:52 AM	W5053
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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #4

 Project:
 NYE LS 1A
 Collection Date: 4/2/2018 2:08:00 PM

 Lab ID:
 1804131-004
 Matrix: AQUEOUS
 Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	ual 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.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

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	yses Result PQL Qual Units DF Date Analyzed		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.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

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 Qu	al 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.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #6

 Project:
 NYE LS 1A
 Collection Date: 4/2/2018 12:05:00 PM

 Lab ID:
 1804131-006
 Matrix: AQUEOUS
 Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	ıal 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	W5053
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Naphthalene	ND	2.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
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	W5053
Bromobenzene	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Bromodichloromethane	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Bromoform	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Bromomethane	ND	3.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
2-Butanone	ND	10	μg/L	1	4/13/2018 6:41:20 AM	W5053
Carbon disulfide	ND	10	μg/L	1	4/13/2018 6:41:20 AM	W5053
Carbon Tetrachloride	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Chlorobenzene	ND	1.0	µg/L	1	4/13/2018 6:41:20 AM	W5053
Chloroethane	ND	2.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Chloroform	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
Chloromethane	ND	3.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
2-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
4-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
cis-1,2-DCE	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	4/13/2018 6:41:20 AM	W5053
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	W5053
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.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #6

Project: NYE LS 1A Collection Date: 4/2/2018 12:05:00 PM

Lab ID: 1804131-006 Matrix: AQUEOUS Received Date: 4/4/2018 7:40:00 AM

Analyses	Result	PQL Qu	al 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.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 12 of 17 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #7

Project: NYE LS 1A

Collection Date: 4/2/2018 3:05:00 PM

Lab ID: 1804131-007 **Matrix:** AQUEOUS **Received Date:** 4/4/2018 7:40:00 AM

Analyses	Result	PQL Q	ual 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	W5053
Toluene	ND	1.0	µg/L	1	4/13/2018 7:10:31 AM	W5053
Ethylbenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W5053
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W5053
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W5053
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Naphthalene	ND	2.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1-Methylnaphthalene	ND	4.0	μg/L	1	4/13/2018 7:10:31 AM	W505
2-Methylnaphthalene	ND	4.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Acetone	ND	10	μg/L	1	4/13/2018 7:10:31 AM	W505
Bromobenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Bromodichloromethane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Bromoform	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Bromomethane	ND	3.0	μg/L	1	4/13/2018 7:10:31 AM	W505
2-Butanone	ND	10	μg/L	1	4/13/2018 7:10:31 AM	W505
Carbon disulfide	ND	10	μg/L	1	4/13/2018 7:10:31 AM	W505
Carbon Tetrachloride	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Chlorobenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Chloroethane	ND	2.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Chloroform	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Chloromethane	ND	3.0	μg/L	1	4/13/2018 7:10:31 AM	W505
2-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
4-Chlorotoluene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
cis-1,2-DCE	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Dibromochloromethane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Dibromomethane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,2-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,3-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,4-Dichlorobenzene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
Dichlorodifluoromethane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,1-Dichloroethane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,1-Dichloroethene	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,2-Dichloropropane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
1,3-Dichloropropane	ND	1.0	μg/L	1	4/13/2018 7:10:31 AM	W505
2,2-Dichloropropane	ND	2.0	μg/L	1	4/13/2018 7:10:31 AM	W505

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

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- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1804131

Date Reported: 4/13/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #7

Project: NYE LS 1A Collection Date: 4/2/2018 3:05:00 PM

 Lab ID:
 1804131-007
 Matrix:
 AQUEOUS
 Received Date: 4/4/2018 7:40:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed

Analyses	Result	PQL Qu	al 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.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 14 of 17
- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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

Prep Date:	Analysis Date: 4/12/2018		5	SeqNo: 1	638999	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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 15 of 17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1804131**

13-Apr-18

Client: Blagg Engineering
Project: NYE LS 1A

Sample ID rb	SampType	e: MBLK	TestCode: EPA Method 8260B: VOLATILES										
Client ID: PBW	Batch ID	: W50533	Ru	RunNo: 50533									
Prep Date:	Analysis Date	4/12/2018	Se	Units: µg/L									
Analyte	Result F	QL 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 Ics	SampType	: LCS	TestC	Code: EPA Method	8260B: VOL	ATILES							
Client ID: LCSW	Batch ID	: W50533	Ru	ınNo: 50533									
Prep Date:	Analysis Date	4/12/2018	Se	eqNo: 1639000	Units: µg/L								
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual					

Qualifiers:

Chlorobenzene

Benzene

Toluene

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

20

18

19

1.0

1.0

1.0

20.00

20.00

20.00

RL

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

70

70

70

130

130

130

E Value above quantitation range

Reporting Detection Limit

99.7

90.2

93.1

J Analyte detected below quantitation limits

Cample all Not In Dance

P Sample pH Not In Range

0

0

0

W Sample container temperature is out of limit as specified

Page 16 of 17

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1804131 13-Apr-18

Client:

Blagg Engineering

Project:

NYE LS 1A

					The second second second	William Control of the Control of th			Water Control	
Sample ID 100ng lcs	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	ID: W5	50533	R	RunNo: 5	0533				
Prep Date:	Analysis D	ate: 4/	12/2018	S	SeqNo: 1	639000	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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 17 of 17



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

CI	ient Name:	BLAGG		Work Order Nu	ımber:	1804131			RcptNo	o: 1	
Re	ceived By:	Anne Thorn		4/4/2018 7:40:00	AM		-	Om Il			
	mpleted By:	Anne Thorn		4/4/2018 8:47:08				Anne St. Anne St.			
			e .	4/4/18							
Re	viewed By:	ENM	4 4	9/9/18		Lerr	2014	ed B	y DDS		
Ch	ain of Cus	tody	4								
1.	Is Chain of C	ustody complet	e?			Yes 🗸		No 🗌	Not Present		
2.	How was the	sample delivere	ed?			Courier					
Lo	og In										
_		npt made to coo	of the samples?		,	Yes 🗸	2	No 🗌	NA 🗌	×	
4. \	Nere all samp	ples received at	a temperature o	f >0° C to 6.0°C	٠,	Yes 🗸		No 🗌	NA 🗆		
5. :	Sample(s) in	proper containe	er(s)?		,	Yes 🗹		No 🗌			
6. 8	Sufficient sam	ple volume for	indicated test(s)?	,)	es 🗸		No 🗌			
7. <i>F</i>	Are samples (except VOA an	d ONG) properly	preserved?)	es 🗸		No 🗌			
8. V	Vas preserva	tive added to be	ottles?		١	es 🗌		No 🗸	NA 🗆		
9. \	/OA vials hav	e zero headspa	ace?		Y	'es 🗌		No 🗌	No VOA Vials		, he
10.1	Nere any san	nple containers	received broken	?	,	Yes		No 🗸	# of preserved		54/4/18
		ork match bottle ancies on chain			١	es 🗸		No 🗌	bottles checked for pH:	1/1/	ess noted)
12. F	re matrices o	correctly identific	ed on Chain of C	ustody?	Υ	es 🗸		No 🗌	Adjusted?		
13. 1	s it clear what	t analyses were	requested?		Y	'es 🗸		No 🗌			
		ng times able to ustomer for auth			Υ	es 🗸		No	Checked by:		
Spe	cial Handl	ing (if appli	cable)								
15.	Was client no	tified of all disc	repancies with th	is order?		Yes		No 🗌	NA 🗹		
	Person	Notified:		- Da	te			DOMESTIC STATEMENT OF STATEMENT			
	By Who	om:		Via	i: 🗌	eMail [Phon	e Fax	In Person		
	Regardi	ing:			allo otto att Atau s		R_MATIORISE/SHIPMACHICIS				
	Client Ir	nstructions:			AND THE RESIDENCE OF THE SECOND	CHEMINA PROPRIENTAL PROPRIENTA	Contributor Athensis (Athensis (A				
16.	Additional rea	marks:								_	
17	Cooler Infor	mation									
	Cooler No	. 1	Condition Sea	Intact Seal No	Sea	al Date	Sig	ned By			
	1	10 0	and Not F	Propost			1		7		

Chain-of-Custody Record			Turn-Around	ime:						A			AIR	FTE	20	MAN I	ME	N	TA			
Client: BLAGG ENGR. / BP AMERICA				Rush																		
Medical				Project Name			ANALYSIS LABORATORY www.hallenvironmental.com															
Mailing Address: P.O. BOX 87		NYE LS # 1A				49	01 H									3710	9					
	BLOOMFIELD, NM 87413		Project #:			Tel. 505-345-3975 Fax 505-345-4107																
Phone #: (505) 632-1199					Analysis Request																	
email or I	Fax#:			Project Manag	ger:													ivity)				
QA/QC Package: ☑ Standard			STEVE M	OSKAL	(8021B)	only)	/ MRO)			(5						conductivity)						
Accredita	tion:	WHILE AND SHAPE OF THE SHAPE OF		Sampler:	NELSON	VELEZ			/0			70SIMS)		e)	ds		_	, pH,			nple	
□ NELAF	o	□ Other			☑ Yes	□ No	TMB's	TPH (Gas	/ DRO	418.1)	504.1)	270		Anion Balance	Solids		ite N	e TDS			san	î
□ EDD (Гуре)			Sample Temp	erature:	.0	3E +	+	(GRO	od 4	3d 5	or 82	tals	n Ba	ved	7	/ Nitrite	nclud		a	site	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (0	TPH (Method	EDB (Method	PAH (8310	RCRA 8 Metals	Cation / Anio	Total Dissolved	8260B (VOA)	Nitrate N /	API Water (include TDS,		Grab sample	5 pt. composite sample	Air Bubbles (Y or
4/2/18	1010	WATER	MW # 1	40 ml VOA - 2	HCI & Cool	-00										٧				٧		
4/2/18	1155	WATER	MW # 2	40 ml VOA - 2	HCI & Cool	202										٧				٧		
4/2/18	1310	WATER	MW#3	40 ml VOA - 2	HCl & Cool	703										٧				٧		
4/2/18	1468	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	704										٧				V		
4/2/18	1610	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	705										٧				٧		
4/2/18	1205	WATER	MW#6	40 ml VOA - 2	HCl & Cool	-cdo									landing state for the	٧				٧		
4/2/18	1505	WATER	MW # 7	40 ml VOA - 2	HCI & Cool	-101										٧				٧		
						0																
Date:	Time:	Relinquishe	ed by:	Received by: Date Time R		Remarks:																
4/3/18	1040	1	luly	Ameritan	Walta	4/3/18 1046	BILL DIRECTLY TO BP:															
Date:	Time:	Relinquishe	ed by:	Received by:	1	Date Time	200 Energy Court, Farmington, NM 87401 Attn.: Steve Moskal WBS ELEMENT: L1-001CV-E:NYELS1A															
4/3/18	1827	1 mis	tulvalle	Ulm.	m C	0740																
,	If necessa	ny, samples si	ubmitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie	s. This serves as notice of	f this po	ossibili	ity. Ar	y sub-	contra	acted	data w	ill be	clearly	notat	ed on	the and	alytical	repor	rt.	