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ANNUAL MONITORING REPORT

09/25/2008

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

3R0028

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September 25, 2008

Mr. Glenn von Gonten, Senior Hydrologist New Mexico Oil Conservation Division-NMOCD Environmental Bureau 1220 St. Francis Drive Santa Fe, New Mexico 87505

RE: REQUEST FOR PERMANENT CLOSURE BP America Production Company (formerly Amoco Production Co.) Groundwater Monitoring Report Jacquez LS #3, UNIT D, SEC. 30, T30N, R8W, NMPM San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-28-0

Dear Mr. von Gonten:

BP America Production Company (**BP**) has retained Blagg Engineering, Inc. (**BEI**) to conduct environmental monitoring of groundwater at the Jacquez LS #3.

BP has followed its NMOCD approved groundwater management plan and is requesting permanent closure for this site.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at (505) 632-1199. Thank you for your cooperation and assistance.

Respectfully submitted: *Blagg Engineering, Inc.*

The Uf

Nelson J. Velez Staff Geologist

Attachment: Groundwater Report (2 copies)

cc: Mr. Brandon Powell, Environmental Specialist, NMOCD District III Office, Aztec, NM Mr. Larry Schlotterback, Environmental Coordinator, BP, Farmington, NM

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BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

JACQUEZ LS #3 (D) SECTION 30, T30N, R8W, NMPM SAN JUAN COUNTY, NEW MEXICO

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PREPARED FOR: NEW MEXICO OIL CONSERVATION DIVISION 1220 ST. FRANCIS DRIVE SANTA FE, NEW MEXICO 87504

SEPTEMBER 2008

PREPARED BY: BLAGG ENGINEERING, INC.

Consulting Petroleum / Reclamation Services P.O. Box 87 Bloomfield, New Mexico 87413

BP AMERICA PRODUCTION COMPANY Jacquez LS #3 Nw/4 Nw/4, Sec. 30, T30N, R8W

August 2007

Pit Closure Date:

January 1996 (multiple pits)

Monitor Well Installation Date:

08/09/07, 11/20/07, 04/07/08, 06/10/08

Monitor Well Sampling Dates:

Site History:

Groundwater was encountered at a depth of approximately 10 feet below surface grade during excavation of impacted soils from multiple pits in January 1996 (documentation attached). The excavation perimeter was measured at approximately 175 X 100 X 10 feet depth. Approximately 6,500 cubic yards of soils were removed and transported to a private landowner property near BP's (formerly Amoco Production Company) Garcia GC B #1 well site (Unit J, Sec. 21, T29N, R10W). The groundwater within the excavation perimeter was pumped via water hauling trucks and disposed at an approved facility. Afterwards, the exposed groundwater was sampled and tested for benzene, toluene, ethylbenzene, and total xylenes (**BTEX**) per US EPA method 8020. The discovery of unconfirmed groundwater impact during the initial stage of the pit closure activity was transmitted via telecommunication to the New Mexico Oil Conservation Division's (**NMOCD**) district office in Aztec, New Mexico on January 3, 1996. Upon receipt of the first laboratory results received, NMOCD was notified with letter dated March 5, 1996 of the groundwater impact (attached). Resampling of the groundwater in two (2) additional events was conducted at later dates in January, 1996. The BTEX results of the groundwater sampling from the excavation and adjacent test holes in the suspected down gradient direction are as follows;

Sample ID	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
Pit Water	01/18/96	13.0	15.5	19.6	127.0
Pit Water	01/24/96	16.4	8.14	14.0	103.1
Pit Water	01/31/96	12.9	5.05	5.57	30.6
TH1 (gw)	01/18/96	ND	ND	ND	ND
TH2 (gw)	01/18/96	ND	ND	ND	ND
NMWQCC stand	regulatory ards	10	750	750	620

Note: gw = groundwater, NMWQCC = New Mexico Water Quality Control Commission, ppb = parts per billion, ND = Not detectable at reported limits (less than regulatory standards by at least a magnitude of 10).

Groundwater Investigation and Soil Lithology:

Groundwater monitor wells were installed in August 2007 to test groundwater quality (see Figure 1). Boring logs for all three (3) monitor wells along with well completion information are contained within this report. There are no known receptors impacted by the previous discovery of impacted soil and/or groundwater.

Soil lithology at the site consists of primarily coarse grained sand with varying size gravel, non cohesive, and firm. Grayish black sand and gravel mix with no apparent hydrocarbon odor was observed from the drill cuttings at an estimated 11-20 feet below grade within the source area boring only (MW #2).

Groundwater Monitor Well Sampling Procedures:

Monitor wells were developed by hand-bailing, using new disposable bailers after installation. Prior to sample collections, the monitor wells were purged approximately three (3) well bore volumes with new disposable bailers. The groundwater samples were collected following US EPA: SW-846 protocol, were placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing included BTEX by US EPA Method 8021B or Method 8260B and general water quality parameters.

Fluids generated during monitor well development and purging were managed by discarding into a tank pit located near the well head on-site. The tank pit contents are then disposed through approved NMOCD operational procedures for removal of produced fluids.

Groundwater Quality & Flow Direction Information:

Quarterly groundwater monitor well sampling was initiated in August 2007. Summary of laboratory BTEX and general water chemistry analytical results are included in the table on the following pages. The data indicates all BTEX constituents tested at non-detectable levels for four (4) consecutive sampling events within the source and down gradient areas. All field data and laboratory reports for each quarterly sampling event are contained within this report.

Groundwater elevations have consistently been measured with a gradient towards the south-southeast direction (Figure 2 through Figure 5).

Summary and Recommendations:

Hydrocarbon impacted soil and groundwater at the site appear to have been remediated via excavation of impacted soils. All site wells tested at non-detectable levels for BTEX; therefore, meeting NMWQCC standards for groundwater. Permanent site closure is recommended. Following approval by the NMOCD, site monitor wells will be abandoned pursuant to the approved BP Ground Water Management Plan.

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

JACQUEZ LS #3 UNIT D, SEC. 30, T30N, R8W

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REVISED DATE: June 24, 2008 FILENAME: (JLS32Q08.WK4) NJV

				-,				BTEX EPA METHOD 8021B (ppb)		ppb)	
SAMPLE	WELL	D.T.W.	T.D.	TDS	COND.	рН	PRODUCT	Benzene	Toluene	Ethyl	Total
DATE	NAME or No.	(ft)	(ft)	(mg/L)	umhos		(ft)			Benzene	Xylene
		·					· · · · · ·				
09-Aug-07	MW #1	12.33	22.25	6,200	5,600	7.56		ND	ND	ND	ND
09-Aug-07	MW #2	10.69	21.35	3,400	4,600	7.28		ND	ND	ND	ND
20-Nov-07		10.23			4,500	8.71		ND	ND	ND	ND
07-Apr-08		8.44			4,400	8.67		ND	ND	ND	ND
<u> 10-Jun-08</u>		8.25			4,300	8.66		ND	ND	ND	ND
09-Aug-07	MW #3	11.90	20.00	6,400	6,200	7.45		ND	ND	ND	ND
20-Nov-07		11.41			5,700	7.37		ND	ND	ND	ND
07-Apr-08		7.56			5,700	7.56		ND	ND	ND	ND
10-Jun-08		9.43			4,600	7.74		ND	ND	ND	ND
		NMW	QCC GF	ROUNDV	VATER S	TAND	ARDS	10	750	750	620

NOTES: 1) ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10).

GENERAL WATER QUALITY

BP AMERICA PRODUCTION COMPANY

JACQUEZ LS #3

Sample Date : August 9, 2007

PARAMETERS	MW # 1	MW # 2	MW # 3	NMWQCC STANDARDS	Units
LAB pH	7.81	7.58	7.68	6 - 9	S. U.
TOTAL DISSOLVED SOLIDS	11,000	5,700	9,600	1,000	mg / L
NITROGEN, NITRITE	ND	ND	ND	10.0	mg / L
NITROGEN, NITRATE	ND	ND	ND	10.0	mg / L
CHLORIDE	59	77	· 79	250	mg / L
FLUORIDE	1.5	1.8	2.2	1.6	mg / L
SULFATE	6,200	3,400	6,400	. 600	mg / L
IRON	0.058	0.19	0.094	1.0	mg / L

Notes :

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1) NMWQCC - New Mexico Water Quality Control Commission.

- 2) s. u. stanadard unit .
- 3) mg/L milligrams per liter or otherwise known as parts per million (ppm).
- 4) New Mexico Oil Conservation Division (NMOCD) recognizes the NMWQCC or background levels (statistical equivalence) as the standards for each site specific scenario.



Blagg Engineering, Inc.

Project ID:				
Sample ID:				
Lab ID:				
Sample Matrix:				
Preservative:				
Condition:				

NVIRONMENTAL LABORATOR

Jaquez LS 3 Pit Water @ 10' 2440 Water Cool, HgCl₂ Intact

Report Date:	01/22/96
Date Sampled:	01/18/96
Date Received:	01/18/96
Date Analyzed:	01/18/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	13.0	5.00
Toluene	15.5	5.00
Ethylbenzene	19.6	5.00
m,p-Xylenes	95.3 ZITI.V	10.0
o-Xylene	31.7 J	5.00

175 **Total BTEX**

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limit	
	Trifluorotoluene	109	88 - 110%	

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

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Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition: Amoco/Jaquez LS 3 Pit Water 2499 Water Cool, HgCl2 Intact

Report Date:	01/29/96
Date Sampled:	01/24/96
Date Received:	01/25/96
Date Analyzed:	01/25/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	16.4	5.00
Toluene	8.14	5.00
Ethylbenzene	14.0	5.00
m,p-Xylenes	79.0 2 103.1	10.0
o-Xylene	24.1	5.00

Total BTEX 142

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Trifluorotoluene	102	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst Analyst

Durip / K

Review

Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

NAL

Jaquez LS 3 Pit Water 2555 Water Cool, HgCl2 Intact

Report Date:	02/06/96
Date Sampled:	01/31/96
Date Received:	02/01/96
Date Analyzed:	02/01/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	12.9	2.00
Toluene	5.05	2.00
Ethylbenzene	5.57	2.00
m,p-Xylenes	30.6	4.00
o-Xylene	ND	2.00

Total BTEX 54

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Trifluorotoluene	103	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

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Analyst

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General Water Quality Blagg Engineering, Inc.

Project ID:	Jaquez LS 3	Date Reported:	02/06/96
Sample ID:	Pit Water	Date Sampled:	01/31/96
Laboratory ID:	2555	Time Sampled:	14:15
Sample Matrix:	Water	Date Received:	02/01/96

Parameter		Analytical Result	Units
General	Lab pH	7.5	s.u.
	Lab Conductivity @ 25° C	8,260	μ mhos/cm
	Total Dissolved Solids @ 180°C	6,710	mg/L
	Total Dissolved Solids (Calc)	5,660	mg/L
Anions	Total Alkalinity as CaCO ₃	402	mg/L
	Bicarbonate Alkalinity as CaCO ₃	402	mg/L
	Carbonate Alkalinity as CaCO ₃	NA	mg/L
	Hydroxide Alkalinity as CaCO ₃	NA	mg/L
	Chloride	65.0	mg/L
	Sulfate	3,520	mg/L
	Nitrate + Nitrite - N	NA	
	Nitrate - N	NA	
	Nitrite - N	NA	
Cations	Total Hardness as CaCO ₃	813	mg/L
	Calcium	265	mg/L
	Magnesium	36.8	mg/L
	Potassium	< 5.0	mg/L
	Sodium	1,520	mg/L
Data Validation			Acceptance Level
	Cation/Anion Difference	0.50	+/- 5 %
	TDS (180):TDS (calculated)	1.2	1.0 - 1.2

Reference

U.S.E.P.A. 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, 1983. Standard Methods For The Examination Of Water And Wastewater, 18th ed., 1992.

Mine/hp Review

Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

ENVIRONMENTAL LABORATO

Jaquez LS 3 TH - 1 2441 Water Cool, HgCl₂ Intact

Report Date:	01/22/96
Date Sampled:	01/18/96
Date Received:	01/18/96
Date Analyzed:	01/18/96

Target Analyte	Concentration . (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50

Total BTEX ND

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Trifluorotoluene	96	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Lanico Laimon Analyst

Denie Pho

Review



Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

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ENVIRONMENTAL LABORATOR

Jaquez LS 3 TH - 2 2442 Water Cool, HgCl₂ Intact

Report Date:	01/22/96
Date Sampled:	01/18/96
Date Received:	01/18/96
Date Analyzed:	01/18/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50

Total BTEX

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Trifluorotoluene	100	88 - 110%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst (

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Review

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	State of New Mexico ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT Santa Fe, New Mexico 87505
	NEW MEXICO OL CONSERVITION OVERSATION MEMORANDUM OF MEETING OR CONVERSATION
1 1 a 4	Telephone Personal Time 1600 Date 1/3/96
*	Originating Party Other Parties
the states the	Denny Fourt - OCO Arter Bill Olim - OCO Envir. Burcan
3 9 	Subject
	Amoro - Jacquez 6543
*	Discussion (
	Budy Shaw (Amoco) called, Denny to report grown water contamination discovered at pit closure at Jacquez (5#3
B	well site located in Unit D, Sec 30, T30N, LEW.
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المعرجا بشاء	Distribution Signed Bill Acan
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BLAGG ENGINEERING, INC. P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

March 5, 1996

Mr. Roger Anderson Chief of Environmental Bureau State of New Mexico Oil Conservation Division 2040 So. Pacheco Santa Fe, New Mexico 87505

RE: Groundwater Impact Amoco Production Company:

Jaquez LS 3 Well site Legal Description: Unit D, Sec. 30, T30N, R8W San Juan County, New Mexico

Dear Mr. Anderson:

Initial groundwater sample analytical results at the above referenced well site during pit closure activity indicated contamination to be above the State of New Mexico Water Quality Control Commission's regulatory standards for Benzene. Sampling on the Multi pit(s) was conducted January 18, 1996. Listed below are summary analytical results for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX):

Parameter	Multi Pit(s) (parts per billion)
Benzene	13.0
Toluene	15.5
Ethylbenzene	19.6
Total Xylenes	127.0

If you have any questions concerning this information, please do not hesitate to contact us at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted, Blagg Engineering, Inc.

My C. Slegg

Jeffrey C. Blagg, P.E. President

> Denny Foust, Deputy Oil & Gas Inspector, NMOCD, Aztec, NM Buddy Shaw, Environmental Coordinator, Amoco Production Company, Farmington, NM

NV/nv

19. G.P.

cc:

JAQUEZ3.LTR









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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

N/A CHAIN-OF-CUSTODY # :

LABORATORY (S) USED : HALL ENVIRONMENTAL

JACQUEZ LS #3

Filename : 08-09-07.WK4

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UNIT D, SEC. 30, T30N, R8W

Date : August 9, 2007

DEVELOPER : N J V PROJECT MANAGER : N J V

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WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	Sampling Time	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.77	90.44	12.33	22.25	0835	7.56	5,600	18.6	2.00
2	100.90	90.21	10.69	21.35	0855	7.28	4,600	19.5	5.25
3	101.80	89.90	11.90	20.00	0910	7.45	6,200	18.0	1.50
			INSTRUM	BRATIONS =	7.00	2,800			
				08/09/07	0730				

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

MW #1 - fair recovery, abundant amount of sediment, murky gray in appearance.

MW #2 - excellent recovery, abundant amount of sediment, murky gray in appearance. MW #3 - poor / fair recovery, abundant amount of sediment, murky gray in appearance. Collected samples from all MW's for BTEX, anions, pH, TDS, & Fe.

Top of casings : MW #1 ~ 2.25 ft. , MW #2 ~ 2.00 ft. , MW #3 ~ 2.20 ft. above grade .

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CLIENT:	Blagg Engineering			Client Sample ID	: MW a	#1
Lab Order:	0708154			Collection Date	: 8/9/20	007 8:35:00 AM
Project:	Jacquez LS #3			Date Received	: 8/10/2	2007
Lab ID:	0708154-01			Matrix	: AQU	EOUS
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8	021B: VOLATILES					Analyst: NSB
Benzene		ND	1.0	µg/L	1	8/17/2007 1:09:29 AM
Toluene		ND	1.0	µg/L	1	8/17/2007 1:09:29 AM
Ethylbenzene		ND	1.0	µg/L	1	8/17/2007 1:09:29 AM
Xylenes, Total		ND	2.0	µg/L	1	8/17/2007 1:09:29 AM
Surr: 4-Bromo	fluorobenzene	83.3	70.2-105	%REC	1	8/17/2007 1:09:29 AM
EPA METHOD 3	00.0: ANIONS					Analyst: KS
Fluoride		1.5	0.50	mg/L	5	8/15/2007 10:03:53 PM
Chloride		59	0.50	mg/L	5	8/15/2007 10:03:53 PM
Nitrogen, Nitrite	(As N)	ND	2.0	mg/L	20	8/10/2007 2:17:26 PM
Bromide		ND	0.50	mg/L	5	8/15/2007 10:03:53 PM
Nitrogen, Nitrate	(As N)	ND	2.0	mg/L	20	8/10/2007 2:17:26 PM
Phosphorus, Ort	hophosphate (As P)	ND	10	mg/L	20	8/10/2007 2:17:26 PM
Sulfate		6200	50	mg/L	100	8/13/2007 4:43:28 PM
EPA METHOD 6	010B: DISSOLVED MET	ſALS				Analyst: TES
Iron		0.058	0.020	mg/L	1	8/16/2007 12:24:18 PM
SM4500-H+B: P	Н					Analyst: LMM
рН		7.81	0.010	pH units	1	8/10/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved S	Solids	11000	100	mg/L	1	8/13/2007

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Qualifiers:

Date: 20-Aug-07

Value exceeds Maximum Contaminant Level * Е

- Value above quantitation range
- J Analyte detected below quantitation limits
- ND 'Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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CLIENT:	Blagg Engineering			Client Sample ID	: MW #	#2
Lab Order:	0708154			Collection Date	: 8/9/20	007 8:55:00 AM
Project:	Jacquez LS #3			Date Received	: 8/10/2	2007
Lab ID:	0708154-02			Matrix	AQU:	EOUS
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES			· · · · · · · · · · · · · · · · · · ·		Analyst: NSB
Benzene		ND	1.0	µg/L	1	8/17/2007 1:39:20 AM
Toluene		ND	1.0	µg/L	1	8/17/2007 1:39:20 AM
Ethylbenzene		ND	1.0	μg/L	1	8/17/2007 1:39:20 AM
Xylenes, Total		ND	2.0	µg/L	1	8/17/2007 1:39:20 AM
Surr: 4-Brom	nofluorobenzene	85.6	70.2-105	%REC	1	8/17/2007 1:39:20 AM
EPA METHOD	300.0: ANIONS					Analyst: KS
Fluoride		1.8	0.50	mg/L	5	8/15/2007 10:21:17 PM
Chloride		77	0.50	mg/L	5	8/15/2007 10:21:17 PM
Nitrogen, Nitrite	e (As N)	ND	2.0	mg/L	20	8/10/2007 2:34:50 PM
Bromide		ND	0.50	mg/L	5	8/15/2007 10:21:17 PM
Nitrogen, Nitral	te (As N)	ND	2.0	mg/L	20	8/10/2007 2:34:50 PM
Phosphorus, O	rthophosphate (As P)	NÐ	10	mg/L	20	8/10/2007 2:34:50 PM
Sulfate		3400	25	mg/L	50	8/13/2007 3:16:26 PM
EPA METHOD	6010B: DISSOLVED MET	TALS				Analyst: TES
Iron		0.19	0.020	mg/L	1	8/16/2007 12:29:48 PM
SM4500-H+B:	PH					Analyst: LMM
рH		7.58	0.010	pH units	1	8/10/2007
SM 2540C: TD	S					Analyst: TAF
Total Dissolved	1 Solids	5700	100	mg/L	1	8/13/2007

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Date: 20-Aug-07

* Value exceeds Maximum Contaminant Level Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

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Hall Envir	onmental Analys	20-Aug-07					
CLIENT: Lab Order:	Blagg Engineering 0708154			C	Client Sample ID: Collection Date:	MW #	#3 007 9:10:00 AM
Project:	Jacquez LS #3				Date Received:	8/10/2	2007
Lab ID:	0708154-03				Matrix:	AQU	EOUS
Analyses	;	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES						Analyst: NSB
Benzene		ND	1.0		µg/L	1	8/17/2007 2:09:22 AM
Toluene		ND	1.0		µg/L	1	8/17/2007 2:09:22 AM
Ethylbenzene		ND	1.0		µg/L	1	8/17/2007 2:09:22 AM
Xylenes, Total		ND	2.0		µg/L	1	8/17/2007 2:09:22 AM
Surr: 4-Brom	ofluorobenzene	83.2	70.2-105		%REC	1	8/17/2007 2:09:22 AM
EPA METHOD	300.0: ANIONS						Analyst: KS
Fluoride		2.2	0.50		mg/L	5	8/15/2007 10:38:41 PM
Chloride		79	0.50		mg/L	5	8/15/2007 10:38:41 PM
Nitrogen, Nitrite	e (As N)	ND	2.0		mg/L	20	8/10/2007 2:52:14 PM
Bromide		ND	0.50		mg/L	5	8/15/2007 10:38:41 PM
Nitrogen, Nitrat	e (As N)	ND	2.0		mg/L	20	8/10/2007 2:52:14 PM
Phosphorus, O	rthophosphate (As P)	ND	10		mg/L	20	8/10/2007 2:52:14 PM
Sulfate		6400	50		mg/L	100	8/13/2007 5:35:42 PM
EPA METHOD	6010B: DISSOLVED ME	TALS					Analyst: TES
Iron		0.094	0.020		mg/L	1	8/16/2007 12:33:40 PM
SM4500-H+B:	РН						Analyst: LMM
pН		7.68	0.010		pH units	1	8/10/2007
SM 2540C: TD	S						Analyst: TAF
Total Dissolved	Solids	9600	20		mg/L	1	8/13/2007

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. -Qualifiers: * Value exceeds Maximum Contaminant Level В Analyte detected in the associated Method Blank E Value above quantitation range Н Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits MCL Maximum Contaminant Level ND Not Detected at the Reporting Limit RL Reporting Limit S Spike recovery outside accepted recovery limits

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Page 3 of 3

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QA/QC SUMMARY REPORT

FTOJECI: Jac		· · · ·					<u></u>	Work	Order: 0708154
Analyte	Re	esult	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RP	DLimit Qual
Method: E300						· · · · · · · · · · · · · · · · · · ·			
Sample ID: MBLK			MBLK			Batch II	D: R24730	Analysis Date:	8/10/2007 10:48:32 AN
Fluoride	NC	C	mg/L	0.10					
Chloride	NE	D	mg/L	0.10					
Nitrogen, Nitrite (As N)	NE	D	mg/L	0.10					
Bromide	N	C	mg/L	0.10					
Nitrogen, Nitrate (As N)	NE	D	mg/L	0.10					
Phosphorus, Orthophosp	hate (As P) NE	C	mg/L	0.50					
Sulfate	NE	D	mg/L	0.50					
Sample ID: MBLK			MBLK			Batch II): R24742	Analysis Date:	8/13/2007 2:06:47 PN
Fluoride	NE	C	mg/L	0.10					
Chloride	NE	D	mg/L	0.10					
Nitrogen, Nitrite (As N)	NE	D	mg/L	0.10					
Bromide	NE	D	mg/L	0.10					
Nitrogen, Nitrate (As N)	NE	D	mg/L	0.10					
Phosphorus, Orthophosp	ohate (As P) N	C	mg/L	0.50					
Sulfate	NE	D	mg/L	0.50					
Sample ID: MBLK			MBLK			Batch II): R24775	Analysis Date:	8/15/2007 11:02:22 AM
Fluoride	N	D	mg/L	0.10					
Chloride	NE	D	mg/L	0.10					
Nitrogen, Nitrite (As N)	N	D	mg/L	0.10					
Bromide	NE	D	mg/L	0.10					
Nitrogen, Nitrate (As N)	NE	D	mg/L	0.10					
Phosphorus, Orthophos	ohate (As P) NE	D	mg/L	0.50					
Sulfate	N	D	mg/L	0.50					
Sample ID: LCS ST30	0-07030		LCS			Batch IE): R24730	Analysis Date:	8/10/2007 11:05:56 AN
Fluoride	0.5	5243	mg/L	0.10	105	90	110		
Chloride	5.1	164	mg/L	0.10	103	90	110		
Nitrogen, Nitrite (As N)	1.(042	mg/L	0.10	104	90	110		
Bromide	2.6	676	mg/L	0.10	107	90	110		
Nitrogen, Nitrate (As N)	2.6	605	mg/L	0.10	104	90	110		
Phosphorus, Orthophos	ohate (As P) 5.2	294	mg/L	0.50	106	90	110		
Sulfate	10).56	mg/L	0.50	106	90	110		
Sample ID: LCS ST30	0-07030		LCS			Batch I): R24742	Analysis Date:	8/13/2007 2:24:11 PM
Fluoride	0.5	5027	mg/L	0.10	101	90	110		
Chloride	5.0	058	mg/L	0.10	101	90	110		
Nitrogen, Nitrite (As N)	1.(009	mg/L	0.10	101	90	110		
Bromide	2.6	632	mg/L	0.10	105	90	110		
Nitrogen, Nitrate (As N)	2.5	585	mg/L	0.10	103	90	110		
Phosphorus, Orthophos	ohate (As P) 5.3	354	mg/L	0.50	107	90	110		
Sulfate	10	0.29	mg/L	0.50	103	90	110		
Sample ID: LCS ST30	0-07030		LCS			Batch IE): R24775	Analysis Date:	8/15/2007 11:19:46 AM
Fluoride	0.5	5047	mg/L	0.10	101	90	110		
Chloride	5.1	102	mg/L	0.10	102	90	110		
Nitrogen, Nitrite (As N)	0.1	9971	mg/L	0.10	99.7	90	110		
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Analyte detected below quantitation limits

R RPD outside accepted recovery limits

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

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Page 1

QA/QC SUMMARY REPORT

Project: Jacquez LS #3 Work Order: Work Order: Analyte Result Units PQL %Rec LowLimit HighLimit %RPD RPDLimit Qua Method: E300 Sample ID: LCS Batch ID: R24775 Analysis Date: 8/15/2007 1 Bromide 2.668 mg/L 0.10 107 90 110 Nitrogen, Nitrate (As N) 2.587 mg/L 0.10 103 90 110 Phosphorus, Orthophosphate (As P) 5.365 mg/L 0.50 107 90 110 Sulfate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Sample ID: SMR RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 Toluene ND µg/L 1.0 Toluene ND µg/L 1.0 Eatch ID: R24795 Analysis Date: 8/16/2007 Benzene	:19:46 AM
Analyte Result Units PQL %Rec LowLimit HighLimit %RPD RPDLimit Quadratic Method: E300 Sample ID: LCS ST300-07030 LCS Batch ID: R24775 Analysis Date: 8/15/2007 1 Bromide 2.668 mg/L 0.10 107 90 110 Nitrogen, Nitrate (AS N) 2.587 mg/L 0.10 103 90 110 Suffate 10.45 mg/L 0.50 107 90 110 Suffate 10.45 mg/L 0.50 107 90 110 Method: SW8021 Sample ID: SML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 Sample ID: R24795 Analysis Date: 8/16/2007 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 101 85.	:19:46 AM
Method: E300 Sample ID: LCS Batch ID: R24775 Analysis Date: 8/15/2007 Bromide 2.668 mg/L 0.10 107 90 110 Nitrogen, Nitrate (As N) 2.587 mg/L 0.10 103 90 110 Phosphorus, Orthophosphate (As P) 5.365 mg/L 0.50 107 90 110 Suffate 10.45 mg/L 0.50 107 90 110 Suffate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Sample ID: SML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 Toluene ND µg/L 1.0 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 10 85.9 113 Tolue: S/16/2007 Benzene <th>:19:46 AN</th>	:19:46 AN
Sample ID: LCS ST300-07030 LCS Batch ID: R24775 Analysis Date: 9/15/2007 1 Bromide 2.668 mg/L 0.10 107 90 110 Nitrogen, Nitrate (As N) 2.587 mg/L 0.10 103 90 110 Phosphorus, Orthophosphate (As P) 5.365 mg/L 0.50 107 90 110 Sulfate 10.45 mg/L 0.50 104 90 110 Sulfate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Sample ID: SML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 10 90 110 10/1000 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 Benzene 20.13 µg/L 1.0 10 85.9 113 11/2 11/2 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 1 Benzene 20.42	1:19:46 AN
Bromide 2.668 mg/L 0.10 107 90 110 Nitrogen, Nitrate (As N) 2.587 mg/L 0.10 103 90 110 Phosphorus, Orthophosphate (As P) 5.365 mg/L 0.50 107 90 110 Sulfate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Sample ID: SML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 -	
Nitrogen, Nitrate (As N) 2.587 mg/L 0.10 103 90 110 Phosphorus, Orthophosphate (As P) 5.365 mg/L 0.50 107 90 110 Sulfate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Sample ID: 5ML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 2.0 1.0 2.0 <th< td=""><td></td></th<>	
Phosphorus, Orthophosphate (As P) 5.365 mg/L 0.50 107 90 110 Sulfate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Swmol 10 90 110 Sample ID: 5ML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 2000 20	
Sulfate 10.45 mg/L 0.50 104 90 110 Method: SW8021 Sample ID: SML RB MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 Sample ID: R24795 Analysis Date: 8/16/2007 Sample ID: ND µg/L 2.0 Sample ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 2.0 Eatch ID: R24795 Analysis Date: 8/16/2007 10 Benzene 20.13 µg/L 1.0 101 85.9 113 7.47 27 Benzene 20.40 µg/L 1.0 102 83.4 122 5 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Sample ID: 100NG BTEX LCSD LCSD B	
Method: SW8021 MBLK Batch ID: R24795 Analysis Date: 8/16/2007 Benzene ND µg/L 1.0 8/16/2007 Toluene ND µg/L 1.0 <td< td=""><td></td></td<>	
Sample ID: 5ML RBMBLKBatch ID:R24795Analysis Date:8/16/2007BenzeneNDµg/L1.0TolueneNDµg/L1.0EthylbenzeneNDµg/L1.0Xylenes, TotalNDµg/L2.0Benzene20.13µg/L1.0Benzene20.42µg/L1.0Toluene20.42µg/L1.0Ethylbenzene20.42µg/L1.0Kylenes, Total20.42µg/L1.0Benzene20.40µg/L1.0Sample ID: 100NG BTEX LCSLCSD83.5118Kylenes, Total61.37µg/L2.0102Batch ID:100NG BTEX LCSDLCSDBatch ID:R24795Analysis Date:8/17/2007Batch ID:100NG BTEX LCSD61.37JBABµg/L1.0102Batch ID:7.4727	
Benzene ND μg/L 1.0 Toluene ND μg/L 1.0 Ethylbenzene ND μg/L 1.0 Xylenes, Total ND μg/L 2.0 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 1 Benzene 20.42 μg/L 1.0 101 85.9 113 Toluene 20.42 μg/L 1.0 102 86.4 113 Ethylbenzene 20.40 μg/L 1.0 102 83.5 118 Xylenes, Total 61.37 μg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 μg/L 1.0 93.4 85.9 113 7.47 27	:09:22 AN
Toluene ND μg/L 1.0 Ethylbenzene ND μg/L 1.0 Xylenes, Total ND μg/L 2.0 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 1 Benzene 20.42 μg/L 1.0 101 85.9 113 Toluene 20.42 μg/L 1.0 102 86.4 113 Ethylbenzene 20.40 μg/L 1.0 102 83.5 118 Xylenes, Total 61.37 μg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 μg/L 1.0 93.4 85.9 113 7.47 27	
Ethylbenzene ND μg/L 1.0 xylenes, Total ND μg/L 2.0 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 1 Benzene 20.42 μg/L 1.0 101 85.9 113 Toluene 20.42 μg/L 1.0 102 86.4 113 Ethylbenzene 20.40 μg/L 1.0 102 83.5 118 Xylenes, Total 61.37 μg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 μg/L 1.0 102 83.4 122 5 5 Benzene 18.68 μg/L 1.0 93.4 85.9 113 7.47 27	
Xylenes, Total ND μg/L 2.0 Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 1 Benzene 20.13 μg/L 1.0 101 85.9 113 101 85.9 113 Toluene 20.42 μg/L 1.0 102 86.4 113 101 103 <t< td=""><td></td></t<>	
Sample ID: 100NG BTEX LCS LCS Batch ID: R24795 Analysis Date: 8/16/2007 1 Benzene 20.13 µg/L 1.0 101 85.9 113 101 103 101 103 101 103 101 103 101 103 101 103 101 103 101 103 101 103 101 103 101 103 101	
Benzene 20.13 µg/L 1.0 101 85.9 113 Toluene 20.42 µg/L 1.0 102 86.4 113 Ethylbenzene 20.40 µg/L 1.0 102 83.5 118 Xylenes, Total 61.37 µg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 µg/L 1.0 93.4 85.9 113 7.47 27	:09:32 AM
Toluene 20.42 μg/L 1.0 102 86.4 113 Ethylbenzene 20.40 μg/L 1.0 102 83.5 118 Xylenes, Total 61.37 μg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 μg/L 1.0 93.4 85.9 113 7.47 27	
Ethylbenzene 20.40 μg/L 1.0 102 83.5 118 Xylenes, Total 61.37 μg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 μg/L 1.0 93.4 85.9 113 7.47 27	
Xylenes, Total 61.37 μg/L 2.0 102 83.4 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 μg/L 1.0 93.4 85.9 113 7.47 27	
Sample ID: 100NG BTEX LCSD LCSD Batch ID: R24795 Analysis Date: 8/17/2007 Benzene 18.68 µg/L 1.0 93.4 85.9 113 7.47 27	
Benzene 18.68 µg/L 1.0 93.4 85.9 113 7.47 27	39:25 AN
Toluene 18.45 µg/L 1.0 92.2 86.4 113 10.1 19	
Ethylbenzene 18.87 μg/L 1.0 94.4 83.5 118 7.78 10	
Xylenes, Total 56.44 µg/L 2.0 94.1 83.4 122 8.37 13	
_Method: SW6010A	
Sample ID: MB MBLK Batch ID: R24784 Analysis Date: 8/16/2007):52:32 AN
lron ND mg/L 0.020	
Sample ID: LCS Batch ID: R24784 Analysis Date: 8/16/2007):55:50 AN
Iron 0.4844 mg/L 0.020 92.9 80 120	
Method: E160.1	
Sample ID: MB-13588 MBLK Batch ID: 13588 Analysis Date:	8/13/200
Total Dissolved Solids ND mg/L 20	
Sample ID: LCS-13588 LCS Batch ID: 13588 Analysis Date:	
Total Dissolved Solids 1015 mg/l 20 102 80 120	8/13/200

Qualifiers:

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- E Value above quantitation range
 - Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

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

S Spike recovery outside accepted recovery limits 5 / 6

Hall Environmental Analysis Laboratory, Inc.

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Client Name ELAGG Date and Time Received: 8/10/207 Work Order Number: 07/08154 Image: Single of the second se	9	Sam	nple Receipt Che	ecklist			
Wark Order Number 10/08154 ARS Checkfist completed by squarke Sink Jot Sink Jot	8	Client Name BLAGG		Date and Tim	e Received:		8/10/2007
Cnecklist completed by Date Metrix Carrier nome Shipping container/cooler in good condition? Yes Custody reask infact on shipping container/cooler? Yes Custody reask infact on sample bolles? Yes Custody seals infact on sample bolles? Yes Custody seals infact on sample bolles? Yes Chain of custody present? Yes Chain of custody agrees with sample bolles? Yes Samples in proper containers infact? Yes Samples on proper containers infact? Yes Samples in proper containers infact? Yes Samples on proper containers infact? Yes Samples in proper containers infact? Yes Samples relaxed which infalling time? Yes Wafer - Preservation isables to notifie and cap match? Yes Wafer - Preservation isables to notifie and cap match? Yes Wafer - Preservation isables to notifie and cap match? Yes Contorie/iTomp Blank forgent/ure? 4* 1* C 2 Acceptitedie Ugivern sufficient ture to cool. Contacted Yes Contacted by: Regarding Person contacted Contacted by:		Work Order Number 0708154		Received b	y ARS		
Minix Carrier name Construction Shipping container/cooler in good condition? Yes No Not Present Not Shipped Custody seals intact on shipping container/cooler? Yes No No Not Present Not Shipped Interview Chain of custody present? Yes No No No No No Interview Inter		Checklist completed by KAA	81100 Date	- 			
Shipping container/cooler in good condition? Yes No Not Present Not Present Custody seals intact on simple bottles? Yes No NA Image: Container/Cooler? Custody seals intact on sample bottles? Yes No NA Image: Container/Cooler? Chain of custody present? Yes No NA Image: Container/Cooler? Yes No Chain of custody gress with cample labels? Yes Image: Containers intact? Yes No Image: Containers intact? Samples in proper container/south? Yes Image: Containers intact? Yes No Image: Containers intact? Sufficient sample volume for indicated test? Yes No Image: Containers/Image: Containers/Imag		Matrix Carrier na	me <u>Greyhound</u>				
Custody seals intact on sample bollles? Yes No Not Present Not Shipped Custody seals intact on sample bollles? Yes No N/A Image: Custody present? Chain of custody greasent? Yes No No N/A Image: Custody greasent? Chain of custody greasent? Yes No No No No Chain of custody greasent? Yes No No Image: Custody greasent? No Chain of custody agread when relinquished and received? Yes No Image: Custody greasent? No Samples in proper container/bollle? Yes No Image: Custody greasent? No Image: Custody greasent? No Sufficient sample volume for indicated test? Yes No Image: Custody greasent? No Water - VOA vials have zero headspace? No VOA vials submitted Yes No NiA Water - pH acceptable upon receipt? Yes No NiA Image: Container/Comp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: Contacted Date contacted Person contacted Pare MINO 3 Corrective Action Image	ļ	Shipping container/cooler in good condition?	Yes 🔽	No	Not Present		
Custody seals intact on sample bottles? Yes No NA Ø Chain of custody present? Yes No O O Chain of custody signed when relinquished and received? Yes No O O Chain of custody agrees with sample labels? Yes No O O Samples in proper consiner/bottle? Yes No O O Sample containers intact? Yes No O O Sufficient sample volume for indicated test? Yes No O Sufficient sample volume for indicated test? Yes No O Water - VOA vials have zero headspace? No VOA vials submitted Yes No NiA Water - Preservation labels on bottle and cap match? Yes No NiA O Contained? Yes No NiA O NiA O Contained? Yes No No NiA O O Water - pH acceptable upon receipt? Yes No No NiA O Contained? Date contacted: Person contacted P	7	Custody seals intact on shipping container/cooler?	Yes 🔽	No	Not Present	D Not Shipp	ed 🗔
Chain of custody present? Yes No Chain of custody signed when relinquished and received? Yes No Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intad? Yes No Sufficient sample volume for indicated test? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Water - VOA vials have zero headspace? No VOA vials submitted Yes No Water - Preservation labels on bottle and cap match? Yes No NiA Water - PH acceptable upon receipt? Yes No NiA Container/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: If given sufficient time to cool. Client contacted Date contacted: Person contacted Contracted by: Regarding Contacted by: Regarding Corrective Action Corrective Action IASS mell HMO3	J	Custody seals intact on sample bottles?	Yes 🗌	No 🗌	N/A	\checkmark	
Chain of custody signed when relinquished and received? Yes ✓ No Chain of custody agrees with sample labels? Yes ✓ No Samples in proper container/b0118? Yes ✓ No Sample containers intact? Yes ✓ No Sufficient sample volume for indicated test? Yes ✓ No All samples received within holding time? Yes ✓ No Water - VOA vials have zero headspace? No VOA vials submitted Yes ✓ Water - Preservation labels on bottle and cap match? Yes ✓ No Water - pH acceptable upon receipt? Yes ✓ No N/A Container/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: If given sufficient time to cool.		Chain of custody present?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Water - VOA vials have zero headspace? No VOA vials submitted Yes Water - Preservation labels on bottle and cap match? Yes No Water - pH acceptable upon receipt? Yes No Container/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: If given sufficient time to cool.		Chain of custody signed when relinquished and received?	Yes 🔽	No 🗌			
Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Water - VOA vials have zero headspace? No VOA vials submitted Yes No Water - Preservation labels on bottle and cap match? Yes No N/A Water - pH acceptable upon receipt? Yes No N/A Container/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: Balven sufficient time to cool. Client contacted Date contacted: Person contacted Contracted by: Regarding Comments: 1 C , 2 C , 3 C Jultaned Junto 1/2 S mel HNO3. Playtic Playtic		Chain of custody agrees with sample labels?	Yes 🔽	No 🗌			
Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No Alt samples received within hotding time? Yes No Water - VOA visits have zero headspace? No VOA visits submitted Yes No Water - Preservation labels on bottle and cap match? Yes No NIA Water - Preservation labels on bottle and cap match? Yes No NIA Water - Ph acceptable upon receipt? Yes No NIA Containei/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: If given sufficient time to cool.		Samples in proper container/bottle?	Yes 🖌	No 🗌			
Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No Water - VOA vials have zero headspace? No VOA vials submitted Yes No Water - Preservation labels on bottle and cap match? Yes No N/A Water - Preservation labels on bottle and cap match? Yes No N/A Water - PH acceptable upon receipt? Yes No N/A Container/Temp Blank temperature? 4° 4° C t 2 Acceptable COMMENTS: If given sufficient time to cool. Client contacted Date contacted: Person contacted Contracted by: Regarding Comments: 1 C , 2 C , 3 C Jultared into 1 25 mel HNO3 Plastic Affection Affection		Sample containers intact?	Yes 🗹	No 🗌			
All samples received within holding time? Yes No Water - VOA vials have zero headspace? No VOA vials submitted Yes No Water - Preservation labels on bottle and cap match? Yes No N/A Water - pH acceptable upon receipt? Yes No N/A Container/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: If given sufficient time to cool.		Sufficient sample volume for indicated test?	Yes 🔽	No 🗌			
Water - VOA vials have zero headspace? No VOA vials submitted Yes Yes No Water - Preservation labels on bottle and cap match? Yes Yes No N/A Water - pH acceptable upon receipt? Yes No N/A Container/Temp Blank temperature? 4° 4* C ± 2 Acceptable COMMENTS: If given sufficient time to cool.		All samples received within holding time?	Yes 🔽	No 🗌			
Water - Preservation labels on bottle and cap match? Yes No N/A Water - pH acceptable upon receipt? Yes No N/A Containei/Temp Blank temperature? 4° 4° C ± 2 Acceptable COMMENTS: If given sufficient time to cool.	l)	Water - VOA vials have zero headspace? No VOA vials	submitted	Yes 🗹	No 🗌		
Water - pH acceptable upon receipt? Yes I No No N/A C Containei/Temp Blank temperature? 4° 4° C ± 2 Acceptable. COMMENTS: If given sufficient time to cool. Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: IC, 2C, 3C Hilbered into Ia5 me HINO3 Aplastic Corrective Action	-5	Water - Preservation labels on bottle and cap match?	Yes 🗹	No 🗌	N/A 🗌		
Containeir/Temp Blank temperature? 4° 4° C ± 2 Acceptable If given sufficient time to cool. COMMENTS: If given sufficient time to cool. Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: IC,	_	Water - pH acceptable upon receipt?	Yes 🗹	No 🗌	N/A		
COMMENTS: Cient contacted Date contacted: Person contacted Contacted by: Regarding Comments: 1 C, 2 C, 3 C fultered into 125 ml HNO3. plastic		Container/Temp Blank temperature?	4°	4° C ± 2 Accept	able		
Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: IC, ZC, 3C Jultared into I25 ml HNO3 plastic Parcetive Action		COMMENTS:		If given sufficier	nt time to cool.		
Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: 1.C., 2.C., 3.C. fultered into 125 ml HNO3. plastic							
Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: 1C, 2C, 3C fultered into 125 ml HNO3 plastic							
Client contacted Date contacted: Person contacted Contacted by: Regarding Comments: 1C, 2C, 3C fullered into 125 ml HNO3. Plastic Corrective Action		· · · · · · · · · · · · · · · · · · ·					
Client contacted Date contacted: Person contacted Contacted by: Regarding comments: 1C, 2C, 3C biltered into 125 ml HNO3 plastic Partice corrective Action Partice	4.						
Contacted by: Regarding Comments: 1C, 2C, 3C fultered into 125 ml HNO3 Plastic Corrective Action	ŀ	Client contacted Date contacted:		Per	son contacted		
comments: 1C, 2C, 3C biltered into 125 ml HNO3 plastic Corrective Action	- A.	Contacted by: Regarding					
Comments: TC, ZC, JC. DUUUa UNO TAS MC MINO3. Plastic		10 10 20 1.14		- 105	0	IND	
Plattic		$\begin{array}{c} \text{Comments:} & f(f_{1},f_{1}) \\ f_{1},f_{2} \\ f_{2},f_{3} \\ f_{3},f_{3} \\ f_{3}$	red In	0 120	ml	FINU3.	
Corrective Action		plastic				• ••• • ••••	· ·
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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N/A

JACQUEZ LS #3

1000

UNIT D, SEC. 30, T30N, R8W

Date : November 20, 2007

Filename : 11-20-07.WK4

LABORATORY (S) USED : HALL ENVIRONMENTAL

PROJECT MANAGER :_____ N J V

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SAMPLER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	Sampling Time	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.77	90.89	11.88	22.25	-	-	-	-	-
2	100.90	90.67	10.23	21.35	1205	8.71	4,500	17.4	5.50
3	101.80	90.39	11.41	20.00	1120	7.37	5,700	16.9	2.00
			INSTRUME	ENT CALIB	RATIONS =	7.00	2,800		
				DATE	E & TIME =	11/20/07	1100		

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

MW #2 - excellent recovery, gray in appearance, MW #3 - poor / fair recovery, murky gray in appearance, purged to total depth, then allowed recovery, collected BTEX samples from MW #2 & #3 only.

Top of casings : MW #1 ~ 2.25 ft., MW #2 ~ 2.00 ft., MW #3 ~ 2.20 ft. above grade.

Hall Environ	mental Analys	is Labor	atory, I	nc.	D	ate: 30-No	v-07
CLIENT: Project:	Blagg Engineering Jacquez LS #3					Lab Order	r: 0711366
Lab ID:	0711366-01		· · · · · ·		Collection Da	ate: 11/20/2	007 12:05:00 PM
Client Sample ID:	MW #2				Mat	rix: AQUE	OUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 802	1B: VOLATILES						Analyst: NSB
Benzene		ND	1.0		µg/L	1	11/29/2007 12:46:49 AM
Toluene		ND	1.0		µg/L	1	11/29/2007 12:46:49 AM
Ethylbenzene		ND	1.0		µg/L	1	11/29/2007 12:46:49 AM
Xylenes, Total		ND	2.0		µg/L	1	11/29/2007 12:46:49 AM
Surr: 4-Bromoflue	orobenzene	80.1	70.2-105		%REC	1	11/29/2007 12:46:49 AM
Lab ID:	0711366-02				Collection Da	ate: 11/20/2	007 11:20:00 AM
Client Sample ID:	MW #3				Mat	rix: AQUE	DUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 802	1B: VOLATILES						Analyst: NSB
Benzene		ND	1.0		µg/L	1	11/29/2007 3:16:44 AM

1.0

1.0

2.0

70.2-105

µg/L

µg/L

µg/L

%REC

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Qualifiers:

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Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

11/29/2007 3:16:44 AM

11/29/2007 3:16:44 AM

11/29/2007 3:16:44 AM

11/29/2007 3:16:44 AM

	ENVIRONMENTAL YSIS LABORATORY awkins NE, Suite D	rque, New Mexico 87109 345.3975 Fax 505.345.4107	lenvironmental.com	SIS REQUEST		(λ ^o L <i>N</i>) 8085) ([*] 20 ⁴)	bcB,8 (2160; (0, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 1, 10, 10	9101 8 Anon Anions (F, C 201) 808 201) 808 82608 201) 808 82 80 82 80 82 80 80 80 80 80 80 80 80 80 80 80 80 80										
a state of the sta	HALL ANAL	Albuque Tel. 505	www.ha		[Å]	(1921 8) (1929) (1929)	H) 5 J J 2 J J 2 J J 2 G (C92 2 G (C92	+ 381 + 381 108 b 108 b 104 b 10 208 b 208 b 209 b 209 b 200	8310 (b/v EDC (Wefty EDB (Wefty IbH (Wefty BLEX + W								Remarks:		
	QA/ QC Package: Std 🗖 Level 4 🔲 Other:	Project Name:	TACQUEZ LS # 3	Project #:		Project Manager:	Sampler:	Sample Temperature:	Number/Volume H9C1 ₂ HNO ₃ A7// 3// / 3	2-40ml / 1m04-2	2-10m/ / /m01-2				-	X X = 0	Received By (Bignature)	Received By: (Signature)	011-1
	CHAIN-OF-CUSTODY RECORD	Client: Realder ENGO / BP Americe		Address: P.O. SOX 87	BIFO. NM 87413		Phone #: 632 -1199	Fax #:	Date Matrix Sample I.D. No.	1/20/07 1205 WATER MW # 2	1/2407 1120 WATER 101W # 3						Date: Time: Relinquished By (Signature)	Date: Time: Relinquished By: (Signature)	

QA/QC SUMMARY REPORT

Client:Blagg EngineeringProject:Jacquez LS #3

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Work Order: 0711366 Analyte PQL %Rec LowLimit HighLimit %RPD RPDLimit Qual Result Units Method: EPA Method 8021B: Volatiles Sample ID: 5ML RB MBLK Batch ID: R26267 Analysis Date: 11/28/2007 8:42:41 AM Benzene ND μg/L 1.0 Toluene ND µg/L 1.0 Ethylbenzene ND µg/L 1.0 Xylenes, Total ND µg/L 2.0 Sample ID: 100NG BTEX LCS LCS Batch ID: Analysis Date: 11/29/2007 2:16:42 AM R26267 µg/L Benzene 20.23 1.0 101 85.9 113 Toluene 19.91 µg/L 1.0 99.6 86.4 113 Ethylbenzene 19.97 µg/L 1.0 99.8 83.5 118 Xylenes, Total 59.65 µg/L 2.0 99.4 83.4 122

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

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A NAME OF A DESCRIPTION OF A DESCRIPTION

	Sample Rece	eipt	Checklist				
Client Name BLAGG	\sim		Date Received	ΔΤ		11/21/2007	
Checklist completed by:		D	Sample ID lab <u>i// 2. // 0. 7</u> ate	els checked	by	Initials	
Matrix	Carrier name UPS	Ŀ					
Shipping container/cooler in good condition?	Yes	✓	No 🗌	Not Present			
Custody seals intact on shipping container/cooler?	Yes	✓	No 🗌	Not Present		Not Shipped	
Custody seals intact on sample bottles?	Yes		No 🗌	N/A	✓		
Chain of custody present?	Yes	\checkmark	No 🗌				
Chain of custody signed when relinquished and recei	ved? Yes		No 🗌				
Chain of custody agrees with sample labels?	Yes	✓	No 🗌				
Samples in proper container/bottle?	Yes		No 🗌				
Sample containers intact?	Yes	\checkmark	No 🗔				
Sufficient sample volume for indicated test?	Yes		No				
All samples received within holding time?	Yes	✓	No 🗔				
Water - VOA vials have zero headspace? No	VOA vials submitted		Yes 🗹	No 🗌			
Water - Preservation labels on bottle and cap match?	Yes		No 🗔	N/A 🗹			
Water - pH acceptable upon receipt?	Yes		No 🗔	N/A 🗹			
Container/Temp Blank temperature? COMMENTS:	:	2°	<6° C Acceptable If given sufficient t	ime to cool.			
		:=					
Client contacted Date	contacted:		Perso	n contacted			
Contacted by: Rega	arding				_		
Comments:							
					_	·····.	
Corrective Action							
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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: 156390

JACQUEZ LS #3

LABORATORY (S) USED : PACE ANALYTICAL

UNIT D, SEC. 30, T30N, R8W

Date : April 7, 2008

Filename: 04-07-08.WK4

PROJECT MANAGER : N J V

SAMPLER	:	NJV
MANAGER		NIV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.77	92.55	10.22	22.25	-	-	-		-
2	100.90	92.46	8.44	21.35	1335	8.67	4,400	15.4	6.50
3	101.80	92.21	9.59	20.00	1225	7.56	5,700	16.8	5.25
			INSTRUM	ENT CALIE	BRATIONS =	4.01/7.00/10.00	2,800		
				DAT	E & TIME =	04/07/08	1020		
					6	And and a second se			

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #2 & #3, both murky brown in appearance, collected samples for BTEX per US EPA Method 8260 from MW #2 & #3 only.

Top of casings : MW #1 ~ 2.25 ft., MW #2 ~ 2.00 ft., MW #3 ~ 2.20 ft. above grade.



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ANALYTICAL RESULTS

Project: JACQUEZ LS #3

Pace Project No.: 6038268

Sample: MW #2	Lab ID: 6038268001	Collected: 04/07/0	8 13:35	Received: 0	4/08/08 08:45 N	fatrix: Water	
Parameters	Results Unit	s Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA	A 8260					
Benzene	ND ug/L	1.0	1		04/15/08 01:21	71-43-2	
Ethylbenzene	ND ug/L	1.0	1		04/15/08 01:21	100-41-4	
Toluene	ND ug/L	1.0	1		04/15/08 01:21	108-88-3	
Xylene (Total)	ND ug/L	3.0	1		04/15/08 01:21	1330-20-7	
Dibromofluoromethane (S)	98 %	85-114	1		04/15/08 01:21	1868-53-7	
Toluene-d8 (S)	101 %	82-114	1		04/15/08 01:21	2037-26-5	
4-Bromofluorobenzene (S)	102 %	85-119	1		04/15/08 01:21	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %	81-118	1		04/15/08 01:21	17060-07-0	
Preservation pH	1.0	1.0	1		04/15/08 01:21		

Date: 04/15/2008 05:50 PM

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ANALYTICAL RESULTS

Project: JACQUEZ LS #3

Pace Project No.: 6038268

Sample: MW #3	Lab ID: 60	38268002	Collected: 04	/07/08 12	:55 Received	: 04/08/08 08:45	Matrix: Water	
Parameters	Results	Units	Report Lir	nit DF	Prepare	ed Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Me	thod: EPA 82	260					
Benzene	ND u	g/L		1.0 1		04/12/08 07:0	5 71-43-2	
Ethylbenzene	ND u	g/L		1.0 1		04/12/08 07:0	5 100-41-4	
Toluene	ND u	g/L		1.0 1		04/12/08 07:0	5 108-88-3	
Xylene (Total)	ND u	g/L		3.0 1		04/12/08 07:0	5 1330-20-7	
Dibromofluoromethane (S)	99 %	6	85-1	14 1		04/12/08 07:0	5 1868-53-7	
Toluene-d8 (S)	98 %	6	82-1	14 1		04/12/08 07:0	5 2037-26-5	
4-Bromofluorobenzene (S)	88 %	6	85-1	19 1		04/12/08 07:0	5 460-00-4	
1,2-Dichloroethane-d4 (S)	105 %	6	81-1	18 1		04/12/08 07:0	5 17060-07-0	
Preservation pH	1.0			1.0 1		04/12/08 07:0	5	

Date: 04/15/2008 05:50 PM

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ANALYTICAL RESULTS

Project: JACQUEZ LS #3 6038268

Pace Project No.:

Sample: TRIP BLANK	Lab ID: 603826	8003 Collected:	04/07/0	00:00	Received:	04/08/08 08:45 I	Matrix: Water	
Parameters	Results	Units Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method:	EPA 8260						
Benzene	ND ug/L		1.0	1		04/12/08 07:21	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		04/12/08 07:21	100-41-4	
Toluene	ND ug/L		1.0	1		04/12/08 07:21	108-88-3	
Xylene (Total)	ND ug/L		3.0	1		04/12/08 07:21	1330-20-7	
Dibromofluoromethane (S)	99 %	8	5-114	1		04/12/08 07:21	1868-53-7	
Toluene-d8 (S)	97 %	8	2-114	1		04/12/08 07:21	2037-26-5	
4-Bromofluorobenzene (S)	92 %	8	5-119	1		04/12/08 07:21	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %	8	1-118	1		04/12/08 07:21	17060-07-0	
Preservation pH	1.0		1.0	1		04/12/08 07:21		

Date: 04/15/2008 05:50 PM

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SAMPLE SUMMARY

Project: JACQUEZ LS #3 Pace Project No.: 6038268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6038268001	MW #2	Water	04/07/08 13:35	04/08/08 08:45
6038268002	MW #3	Water	04/07/08 12:55	04/08/08 08:45
6038268003	TRIP BLANK	Water	04/07/08 00:00	04/08/08 08:45

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SAMPLE ANALYTE COUNT

Project:	JACQUEZ LS #3
Pace Project No.:	6038268

Lab ID	Sample ID	Method		Analytes Reported
6038268001	MW #2	EPA 8260	JKL	9
6038268002	MW #3	EPA 8260	JKL	9
6038268003	TRIP BLANK	EPA 8260	JKL	9

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PROJECT NARRATIVE

Project: Pace Project No.	JACQUEZ LS #3 : 6038268
Method: EF Description: 82 Client: BF Date: Ap	A 8260 60 MSV UST, Water P-Blagg Engineering ril 15, 2008
General Informa 3 samples were a	tion: analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.
Hold Time: The samples we	re analyzed within the method required hold times with any exceptions noted below.
Initial Calibratio All criteria were v	ns (including MS Tune as applicable): vithin method requirements with any exceptions noted below.
Continuing Cali All criteria were v	bration; vithin method requirements with any exceptions noted below.
Internal Standar All internal stand	rds: ards were within QC limits with any exceptions noted below.
Surrogates: All surrogates we	ere within QC limits with any exceptions noted below.
Method Blank: All analytes were	below the report limit in the method blank with any exceptions noted below.
Laboratory Con All laboratory cor	trol Spike: trol spike compounds were within QC limits with any exceptions noted below.
Matrix Spikes: All percent recov	eries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.
QC Batch: MSV/	
	ermatrix spike duplicate was not performed due to insufficient sample volume.
A matrix spike	a seo / e/matrix spike duplicate was not performed due to insufficient sample volume.
Duplicate Samp All duplicate sam	le: ple results were within method acceptance criteria with any exceptions noted below.
Additional Com	ments:
This data packag	e has been reviewed for quality and completeness and is approved for release.
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QUALITY CONTROL DATA

Project: JACQUEZ LS #3

Pace Project No.: 6038268

QC Batch:	MSV/13967	Analysis Method:	EPA 8260	AND
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER	
Associated Lab Sam	ples: 6038268002, 6038268003			
METHOD BLANK:	311355	<u></u>		······
Associated Lab Sam	ples: 6038268002 6038268003			

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	108	81-118	
4-Bromofluorobenzene (S)	%	93	85-119	
Dibromofluoromethane (S)	%	99	85-114	
Toluene-d8 (S)	%	101	82-114	

LABORATORY CONTROL SAMPLE: 311356

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L	10	9.2	92	87-117	_
Ethylbenzene	ug/L	10	8.9	89	84-123	
Toluene	ug/L	10	8.7	87	81-124	
Xylene (Total)	ug/L	30	26.7	89	83-125	
1,2-Dichloroethane-d4 (S)	%			106	81-118	
4-Bromofluorobenzene (S)	%			91	85-119	
Dibromofluoromethane (S)	%			101	85-114	
Toluene-d8 (S)	%			101	82-114	

Date: 04/15/2008 05:50 PM

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QUALITY CONTROL DATA

Project: JACQUEZ LS #3

Pace Project No.:	6038268		
QC Batch:	MSV/13987	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Sam	ples: 6038268001		

METHOD BLANK: 311996

Associated Lab Samples: 6038268001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	101	81-118	
4-Bromofluorobenzene (S)	%	95	85-119	
Dibromofluoromethane (S)	%	99	85-114	
Toluene-d8 (S)	%	100	82-114	

LABORATORY CONTROL SAMPLE: 311997

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L		9.2	92	87-117	
Ethylbenzene	ug/L	10	9.2	92	84-123	
Toluene	ug/L	10	9.4	94	81-124	
Xylene (Total)	ug/L	30	26.8	89	83-125	
1,2-Dichloroethane-d4 (S)	%			103	81-118	
4-Bromofluorobenzene (S)	%			103	85-119	
Dibromofluoromethane (S)	%			100	85-114	
Toluene-d8 (S)	%			104	82-114	

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Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

QUALIFIERS

Project: JACQUEZ LS #3

Pace Project No.: 6038268

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: MSV/13967

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/13987

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Date: 04/15/2008 05:50 PM

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JACQUEZ LS #3 Pace Project No.: 6038268

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6038268002 6038268003	MW #3 TRIP BLANK	EPA 8260 EPA 8260	MSV/13967 MSV/13967		
6038268001	MW # 2	EPA 8260	MSV/13987		

Date: 04/15/2008 05:50 PM

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Courier:	nt 🗌 Comm	ercial	Pace Of	her	Proj. Due Date: Proj. Name:	4 18/2
custody Seal on Cooler/Box Present: Ayes	🗌 no	Seals	intact: 🗗	yes 🗌	no 🔊	1542
Packing Material: 🔲 Bubble Wrap 🔗 Bubble	Bags 🔲 N	lone	Other		Unego.	2
hermometer Used T-168 /T-169	Type of Ice:	Wet	Blue Non	e . [] Samples on ice, cooling p	rocess has begun
Cooler Temperature 36	Biological	lissue	is Frozen: Ye	is No	Date and initials of p	erson examining
emp should be above freezing to 6°C			Comments:		No V	10
Chain of Custody Present:	BKes □No		1.			
Chain of Custody Filled Out:	Xar DNo	DN/A	2.			
Chain of Custody Relinquished:	KYes DNo		3.			
Sampler Name & Signature on COC:	Øyes 🛛 No		4.			
Samples Arrived within Hold Time:	Bres DNo	[]N/A	5			
Short Hold Time Analysis (<72hr):	IYes DA		6.		•	
Rush Turn Around Time Requested:	OYes 2110		7.			····
Sufficient Volume:	ETTés []No	On/A	8			
Correct Containers Used:	Qees DNo	10 N/A	9.			
-Pace Containers Used:	BYes DNo					
Containers Intact:	Yes No		10.			
Filtered volume received for Dissolved tests		BIN A	11.			
Sample Labels match COC:	jørkes ⊡No	[]N/A	12.	•		
-Includes date/time/ID/Analysis Matrix:	65				· · · · · · · · · · · · · · · · · · ·	
a containers needing preservation have been checked.	OYes ONo	Z N/A	13.			
All containers needing preservation are found to be in compliance with EPA recommendation	OYes ONo				·	
/			Initial when		Lot # of added	
exceptions: VOP, coliform, TOC, O&G, WI-DRO (water)			completed	te-	preservative	
Samples checked for dechlorination:	OYes ONo		14.		 	·····
Headspace in VOA Vials (>6mm):	Yes Control		15.			
Trip Blank Present:	Kalyes 🗆 No	⊡n/A	16. 3 11	S Sent	w/nutiple pr	reats
Trip Blank Custody Seals Present	⊡Yes D2MRo	On/A			•	r.
Pace Trip Blank Lot # (if purchased): 6 212	8-7			·····	······································	
Client Notification/ Resolution:					Field Data Required?	Y / N
Person Contacted:		_Date/1	īme:			
Comments/ Resolution:		. <u>.</u>	·			· · · · · · · · · · · · · · · · · · ·
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Project Manager Review: MW 49	108				Date:	
Note: Whenever there is a discrepancy affecting North	Carolina complia	nce san	ples, a copy of	this form w	ill be sent to the North Carol	ina DEHNR

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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N/A

JACQUEZ LS #3

LABORATORY (S) USED : PACE ANALYTICAL

SAMPLER :

NJV

Date : June 10, 2008

UNIT D, SEC. 30, T30N, R8W

Filename : 06-10-08.WK4

PROJECT MANAGEI

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WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	IIME		(umnos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	102.77	92.65	10.12	22.25	-	-	-	-	-
2	100.90	92.65	8.25	21.35	0835	8.66	4,300	14.0	6.50
3	101.80	92.37	9.43	20.00	0755	7.74	4,600	13.5	5.25
INSTRUMENT CALIBRATIONS =					4.01/7.00/10.00	2,800			
DATE & TIME =						06/09/08	0700		

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #2 & #3, both murky brown in appearance, collected samples for BTEX per US EPA Method 8260 from MW #2 & #3 only.

Top of casings : MW #1 ~ 2.25 ft., MW #2 ~ 2.00 ft., MW #3 ~ 2.20 ft. above grade.

on-site	7:11	temp	50
off-site	8:50	temp	65
sky cond.	sunny		
wind speed	0-10	direct.	North



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ANALYTICAL RESULTS

Project: JACQUEZ LS 3

Pace Project No.: 6041668

Sample: MW #2	Lab ID: 6041668001	Collected: 06/10/08 08:3	35 Received: 06/11/08 09:10 Matrix: Water
Parameters	Results Units	Report Limit DF	Prepared Analyzed CAS No. Qual
8260 MSV UST, Water	Analytical Method: EPA 82	260	
Benzene	ND ug/L	1.0 1	06/14/08 04:18 71-43-2
Ethylbenzene	ND ug/L	1.0 1	06/14/08 04:18 100-41-4
Toluene	ND ug/L	1.0 1	06/14/08 04:18 108-88-3
Xylene (Total)	ND ug/L	3.0 1	06/14/08 04:18 1330-20-7
Dibromofluoromethane (S)	97 %	85-114 1	06/14/08 04:18 1868-53-7
Toluene-d8 (S)	101 %	82-114 1	06/14/08 04:18 2037-26-5
4-Bromofluorobenzene (S)	110 %	85-119 1	06/14/08 04:18 460-00-4
1,2-Dichloroethane-d4 (S)	101 %	81-118 1	06/14/08 04:18 17060-07-0
Preservation pH	1.0	1.0 1	06/14/08 04:18

Date: 06/23/2008 03:11 PM

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ANALYTICAL RESULTS

Project: JACQUEZ LS 3 6041668

Pace Project No .:

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Sample: MW #3	Lab ID: 6041668002	Collected: 06/10/0	8 07:55	Received: (06/11/08 09:10	Matrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Quał
8260 MSV UST, Water	Analytical Method: EPA 82	260					
Benzene	ND ug/L	1.0	1		06/14/08 04:32	71-43-2	
Ethylbenzene	ND ug/L	1.0	1		06/14/08 04:32	100-41-4	
Toluene	ND ug/L	1.0	1		06/14/08 04:32	108-88-3	
Xylene (Total)	ND ug/L	3.0	1		06/14/08 04:32	1330-20-7	
Dibromofluoromethane (S)	98 %	85-114	1		06/14/08 04:32	1868-53-7	
Toluene-d8 (S)	100 %	82-114	1		06/14/08 04:32	2037-26-5	
4-Bromofluorobenzene (S)	109 %	85-119	1		06/14/08 04:32	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %	81-118	1		06/14/08 04:32	17060-07-0	
Preservation pH	1.0	1.0	1		06/14/08 04:32		

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ANALYTICAL RESULTS

Project: JACQUEZ LS 3

Pace Project No.: 6041668

Sample: TRIP BLANK	Lab ID: 6041668003	Collected: 06/10/08 00:00	Received: 06/11/08 09:10	Matrix: Water
Parameters	Results Units	Report Limit DF	Prepared Analyzed	CAS No. Qual
8260 MSV UST, Water	Analytical Method: EPA 82	260		
Benzene	ND ug/L	1.0 1	06/14/08 04:47	7 71-43-2
Ethylbenzene	ND ug/L	1.0 1	06/14/08 04:47	7 100-41-4
Toluene	ND ug/L	1.0 1	06/14/08 04:47	7 108-88-3
Xylene (Total)	ND ug/L	3.0 1	06/14/08 04:47	7 1330-20-7
Dibromofluoromethane (S)	98 %	85-114 1	06/14/08 04:47	7 1868-53-7
Toluene-d8 (S)	99 %	82-114 1	06/14/08 04:47	2037-26-5
4-Bromofluorobenzene (S)	111 %	85-119 1	06/14/08 04:47	7 460-00-4
1,2-Dichloroethane-d4 (S)	103 %	81-118 1	06/14/08 04:47	17060-07-0
Preservation pH	1.0	1.0 1	06/14/08 04:47	,

Date: 06/23/2008 03:11 PM

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- State or Le lated company	me: Region/Enfos	JACQUEZ LS 3 Segment:	SUDC	501	HLY		Off-site 1 Sky Condi	ime: 8:5 tions: SL	ר איאי	emp: 65 F
	ad kegulatory Req	Agency: uested Due Date (m	<u>///</u> :(/////////////////////////////////	e C	23/22		Meteorolo Wind Spee	gical Events: d: 0-/		irection: NoRTH
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Loiret Blvd		BP/AR Facility Add	ess:				Address: 1	110 N. Forth	St.	
(a, KS 66219		Site Lat/Long:						Bloamfield,	NM 87413	
lls		California Global ID	No.:				Consultant	/Contractor H	roject No.:	
3-1401		Enfos Project No.:	00193-0	100			Consultant	/Contractor I	M: Nelson Vel	er
ke Whelan		Provision or OOC (sircle one)				Tele: (505) 632-1199	Bax: (505) 632-	3903
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B Houston, TX 77079		Sub Phase/Task:					E-Mail ED	D To: blage	-njve@yahoo.c	OM
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SAMPLE SUMMARY

Project: JACQUEZ LS 3 Pace Project No.: 6041668

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6041668001	MW #2	Water	06/10/08 08:35	06/11/08 09:10
6041668002	MW #3	Water	06/10/08 07:55	06/11/08 09:10
6041668003	TRIP BLANK	Water	06/10/08 00:00	06/11/08 09:10

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SAMPLE ANALYTE COUNT

Project:JACQUEZ LS 3Pace Project No.:6041668

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Lab iD	Sample ID	Method	Analysts	Analytes Reported
6041668001	MW #2	EPA 8260	JTK	9
6041668002	MW #3	EPA 8260	JTK	9
6041668003	TRIP BLANK	EPA 8260	JTK	9

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Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

PROJECT NARRATIVE

Project: JA Pace Project No.: 60	1CQUEZ LS 3 141668	
Method: EPA 826 Description: 8260 MS Client: BP-Blagg Date: June 23,	0 V UST, Water g Engineering 2008	
General Information: 3 samples were analyz	ed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.	
Hold Time: The samples were ana	lyzed within the method required hold times with any exceptions noted below.	
Initial Calibrations (in All criteria were within)	cluding MS Tune as applicable): nethod requirements with any exceptions noted below.	
Continuing Calibratio All criteria were within r	n: nethod requirements with any exceptions noted below.	
Internal Standards: All internal standards w	rere within QC limits with any exceptions noted below.	
Surrogates: All surrogates were with	hin QC limits with any exceptions noted below.	
Method Blank: All analytes were below	the report limit in the method blank with any exceptions noted below.	
Laboratory Control Sp All laboratory control sp	bike: ike compounds were within QC limits with any exceptions noted below.	
Matrix Spikes: All percent recoveries a	ind relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.	
QC Batch: MSV/15178 A matrix spike/matri	x spike duplicate was not performed due to insufficient sample volume.	
Duplicate Sample: All duplicate sample res	sults were within method acceptance criteria with any exceptions noted below.	
Additional Comments		
This data package has	been reviewed for quality and completeness and is approved for release.	
	REPORT OF LABORATORY ANALYSIS	Page 4 of 10
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QUALITY CONTROL DATA

Project: JACQUEZ LS 3

Pace Project No.: 6041668

QC Batch:	MSV/15178	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samp	oles: 6041668001, 6041668002, 6041	1668003	

METHOD BLANK: 340016

Associated Lab Samples: 6041668001, 6041668002, 6041668003

Parameter	l Inite	Blank Result	Reporting	Qualifiers
Benzene	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	3.0	
1,2-Dichloroethane-d4 (S)	%	98	81-118	
4-Bromofluorobenzene (S)	%	108	85-119	
Dibromofluoromethane (S)	%	94	85-114	
Toluene-d8 (S)	%	100	82-114	

LABORATORY CONTROL SAMPLE: 340017

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/L	10	11.3	113	87-117	
Ethylbenzene	ug/L	10	11.0	110	84-123	
Toluene	ug/L	10	10.8	108	81-124	
Xylene (Total)	ug/L	30	33.6	112	83-125	
1,2-Dichloroethane-d4 (S)	%			94	81-118	
4-Bromofluorobenzene (S)	%			105	85-119	
Dibromofluoromethane (S)	%			96	85-114	
Toluene-d8 (S)	%			100	82-114	

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QUALIFIERS

Project: JACQUEZ LS 3 Pace Project No.: 6041668

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

BATCH QUALIFIERS

Batch: MSV/15178

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:JACQUEZ LS 3Pace Project No.:6041668

-

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6041668001	MW #2	EPA 8260	MSV/15178		
6041668002	MW #3	EPA 8260	MSV/15178		
6041668003	TRIP BLANK	EPA 8260	MSV/15178		

Date: 06/23/2008 03:11 PM

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Pace Analytical Clin Courier: Image: Fed Ex UPS Image: Imag	ent Name: USPS Cien ent: Ves p Bubble / TATP	t Comm no Bags N Type of ice: Biological T Larfes □No	Seals Vone : Wet	C Other Intact: Yes Other Blue None is Frozen: Yes No	Projec	Detiona Proj. Duc Proj. Nar on ice, cor and Initial	Les Date: ne: JSQ sof pers	۲/۲۲۶ ۲/۲۶ ۲۰۰۲ ۲۰۶ ۲۰۰۲ ۲۰۶
Courler: Fed Ex UPS UPS Tracking #: 8643 6005 2346 Custody Seal on Cooler/Box Pres Packing Material: Bubble Wra Thermometer Used T-169 Cooler Temperature <u>5.7</u> Temp should be above freezing to 6°C Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Relinquished:	USPS Clien eent: Vyes p Bubble / 1379	t Comm no Bags N Type of Ice: Biological	vercial Seals None : Wet	Pace Other Intact: Yes Other Other Blue None Is Frozen: Yes No	no Samples Date	Optiona Proj. Duc Proj. Nar on ice, coo and Initial	Date: ne:	جراعع برجع لع ss has begui
Courler: Fed Ex UPS I Fracking #: 8643 6605 2346 Custody Seal on Cooler/Box Press Packing Material: Bubble Wra Thermometer Used T-169 Cooler Temperature 5.3 Temp should be above freezing to 6°C Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Relinquished:	USPS Clien	t Comm no Bags N Type of ice: Biological	vercial Seals None : Wet Tissue	Pace Other Intact: yes Other Other Blue None Is Frozen: Yes No	no Samples Date	Proj. Due Proj. Nar Proj. Nar on ice, coo	Date: ne:	لارح مح دی ss has begui
Fracking #: 8643 6605 2346 Custody Seal on Cooler/Box Pres Packing Material: Bubble Wra Thermometer Used T-169 Cooler Temperature 5.7 Temp should be above freezing to 6°C Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Relinquished:	p DBubble	Ino Bags IN Type of ice: Biological T	Seals None : Wet Tissue	intact: ves Other Blue None is Frozen: Yes No	no Samples Date	Proj. Nar	ne: JSC Hing proce s of pers	۲۲۲۶ مرکز کرج Ss has begui
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Packing Material: Bubble Wra Thermometer Used T-169 Cooler Temperature 5 Temp should be above freezing to 6°C Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Relinquished:	p []Bubble / 15179 2	Bags IN Type of ice: Biological	None : We Tissue	Other Blue None is Frozen: Yes No	Samples	on ice, coc and initia	신승준 hing proce s of pers	ess has begun
T-169 Cooler Temperature <u>5.7</u> emp should be above freezing to 6°C Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Relinquished:		Type of ice: Biological	: Wé Tissue	Blue None is Frozen: Yes No	Samples	on ice, coo and initial	bling process	ess has begu on examining
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		Pres ONo		3.				
ampler Name & Signature on COC):	-ElYes DNo		4.		·		
amples Arrived within Hold Time:		Ælyes 🗆 No		5.				
hort Hold Time Analysis (<72hr)		Yes 21No		6.				
ush Turn Around Time Request	ed:	OYes 21No		7.				
Sufficient Volume:	×	,ÆYes ⊡No		8.				
Correct Containers Used:		1217es 🗆 No		9.				
-Pace Containers Used:		EYes DNo						
Containers Intact:				10.				
Filtered volume received for Dissolv	ved tests			11.				
Sample Labels match COC:		Æres DNo		12.				
-Includes date/time/ID/Analysis	Matrix:	wr						
Il containers needing preservation have b	been checked.	□Yes □No	ØN/A	13.				
It containers needing preservation are	found to be in	CIYes CINo	ZÍN/A					
ompliance with EPA recommendation.				Initial when	I of # of a			
ceptions: (70), coliform, TOC, O&G, WI-D	RO (water)	DYes DNo		completed	preservati	ve		
amples checked for dechlorination	:	OYes ONo	ØN/A	14.	•			
leadspace in VOA Vials (>6mm):		DYes 12/No		15.				
rip Blank Present:		12 Yes DNo	⊡n/a	16.				
Trip Blank Custody Seals Present	,	ETYes []No	[]N/A					
Pace Trip Blank Lot # (if purchased)): 05120y	·		ļ				C
Client Notification/ Resolution:					Field Data	Required		<u> </u>
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