

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



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ARTESIA, NEW MEXICO 88210-2118

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CHIEF FINANCIAL OFFICER

October 28, 2016

Mr. Mike Bratcher or Ms. Heather Patterson
NMOCD District II
811 South First
Artesia, NM 88210

RE: Windmill ATI State #3
30-005-61963
Section 16, T15S-R28E
Chaves County, New Mexico

Mr. Bratcher or Ms. Patterson,

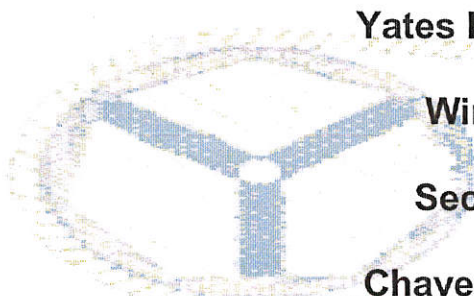
Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that was discovered at the above mentioned facility on 9/21/2016 (2RP-3922). The release was 153 barrels of crude oil, 585 barrels of produced water with 60 barrels of crude oil and 0 barrels of produced water recovered.

With NMOCD and NMSLO approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at amber_griffin@eogresources.com.

Thank You,

Amber Griffin
Environmental Representative
Yates Petroleum Corporation



Yates Petroleum Corporation

Windmill ATI State #3

Section 16, T15S-R28E

Chaves County, New Mexico

October 28, 2016

I. Location

From intersection of State Highway 2 and NM-249 travel North for approximately 0.3 miles to Aberdeen Street. Turn East for approximately 8.5 miles to Harriet Road. Turn South and follow road for approximately 3.3 miles. Road turns to the Southeast – follow for approximately 3.4 miles. Road turns to the Northeast – follow for 0.7 miles. Road turns back to the Southeast for 0.6 miles. Turn South for approximately 0.8 miles. Turn East to location.

II. Background

On September 21, 2016, Yates discovered that the location had been struck by lightning from a storm sometime during the weekend of September 17th. The release was 153 barrels of crude oil, 585 barrels of produced water, with 60 barrels of crude oil and 0 barrels of produced recovered. The area affected from this release was within a bermed battery and outside of the berm on the production pad. An initial Form C-141 was submitted, via e-mail, to the NMOCD District II on September 30, 2016.

On October 6, 2016 and October 14, 2016 Yates returned to the site and collected soil samples from the release area. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M and Chlorides 300.0. Yates received the analytical results on October 18, 2016 and October 27, 2016 (Reports 1610352 and 1610853 attached to this work plan). Analytical results showed the following:

- Section 1 and Section 2 showed acceptable levels for TPH, BTEX and Chlorides.
- Section 3 showed TPH/BTEX levels above NMOCD RRALs at 1' below the surface level, but those levels decreased to levels below NMOCD RRALs at 2' below the surface level. Chlorides were elevated at 1' and 2' below the surface level, but delineated to acceptable levels.
- Section 4 showed TPH/BTEX levels below NMOCD RRALs on the surface. Chlorides were elevated on the surface, at 1' and 2' below the surface level, but delineated to acceptable levels.

III. Surface and Ground Water

Area surface geology is Cenozoic. The NMOSE website shows the depth to groundwater to be approximately 125' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

Depth to ground water	>100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

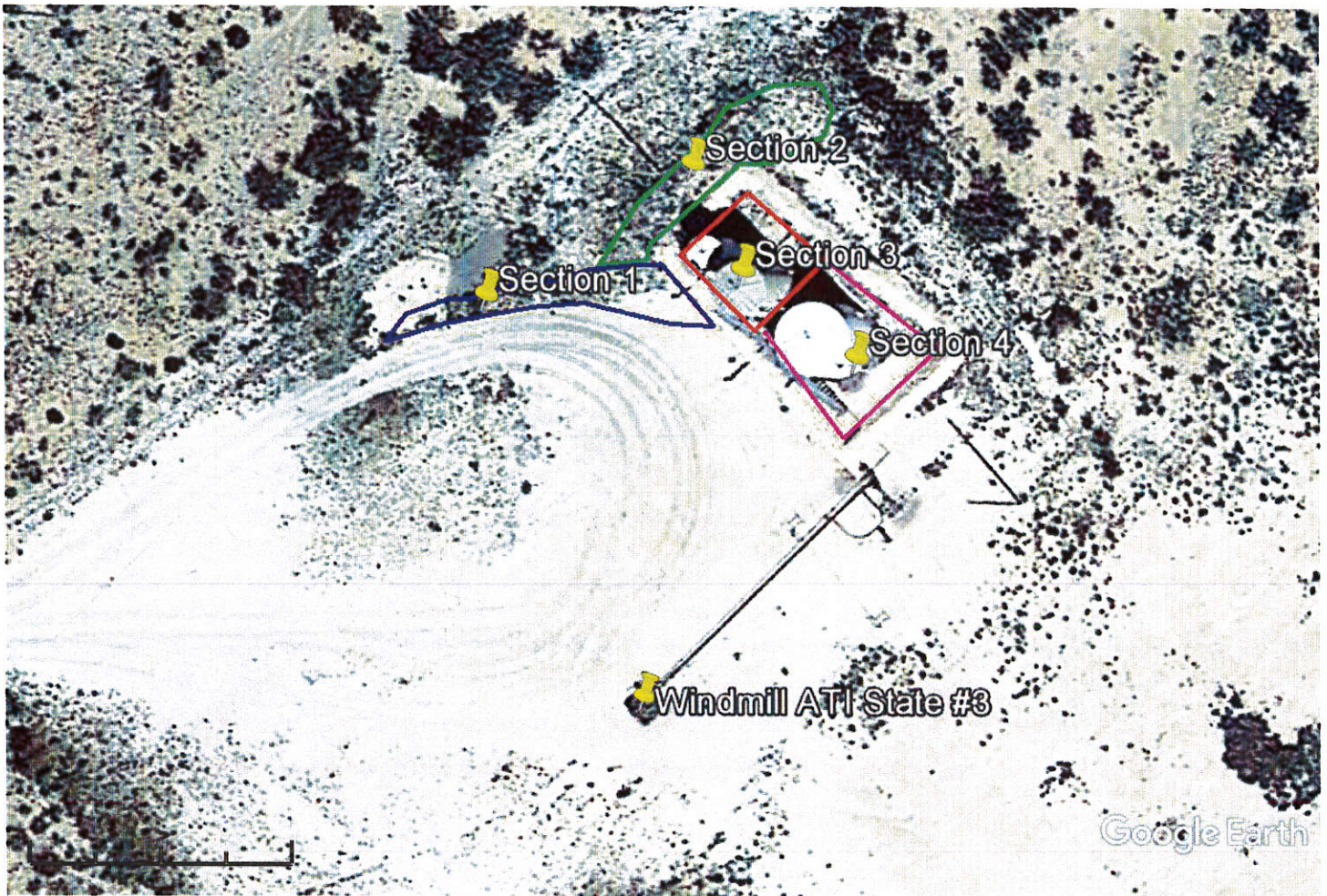
IV. Soils

The area consists of soils that are topsoil and caliche.

V. Scope of Work

Based off the analytical reports which show complete vertical delineation, Yates proposes the following work:

- No excavation work to take place in Sections 1 or 2 of the release area.
- Excavate 3' from both Sections 3 and 4 of the release area to remove soils that contain elevated TPH, BTEX and Chloride levels.
- Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility.
- Backfill the excavation with caliche.
- Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD requesting closure of this release.



Google Earth

feet 100
meters 60



NOT TO SCALE

Windmill ATI State #3

	Sample Area	Sample Date	Analytical Report	Sample Type	Depth	B	T	E	X	BTEX	GRO	DRO	TOTAL	CHLORIDES
1 - Surface	Release Area	10/6/2016	1610352	Grab	Surface	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 - Surface	Release Area	10/6/2016	1610352	Grab	Surface	ND	ND	ND	ND	ND	ND	17	17	56
3 - 1'	Release Area	10/6/2016	1610352	Grab	1'	ND	ND	ND	74	74	2,400	4,800	7,200	4,100
3 - 2'	Release Area	10/6/2016	1610352	Grab	2'	ND	ND	ND	6.6	6.6	680	2,300	2,980	14,000
3 - 4'	Release Area	10/14/2016	1610853	Grab	4'	-	-	-	-	-	-	-	-	1,800
3 - 6'	Release Area	10/14/2016	1610853	Grab	6'	-	-	-	-	-	-	-	-	33
3 - 8'	Release Area	10/14/2016	1610853	Grab	8'	-	-	-	-	-	-	-	-	76
3 - 10'	Release Area	10/14/2016	1610853	Grab	10'	-	-	-	-	-	-	-	-	460
4 - Surface	Release Area	10/6/2016	1610352	Grab	Surface	ND	ND	ND	0.1	0.1	ND	920	920	16,000
4 - 1'	Release Area	10/14/2016	1610853	Grab	1'	-	-	-	-	-	-	-	-	7,600
4 - 2'	Release Area	10/14/2016	1610853	Grab	2'	-	-	-	-	-	-	-	-	7,300
4 - 4'	Release Area	10/14/2016	1610853	Grab	4'	-	-	-	-	-	-	-	-	630
4 - 6'	Release Area	10/14/2016	1610853	Grab	6'	-	-	-	-	-	-	-	-	810
4 - 8'	Release Area	10/14/2016	1610853	Grab	8'	-	-	-	-	-	-	-	-	160
4 - 10'	Release Area	10/14/2016	1610853	Grab	10'	-	-	-	-	-	-	-	-	420

Site Ranking is zero (0). Depth to Ground Water >100' (approx. 125', per NMOSE).

Released: 153 B/O, 585 B/PW; Recovered: 60 B/O, 0 B/PW. Release Date: Unknown. 2RP-3922



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

October 18, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Windmill ATI State 3

OrderNo.: 1610352

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/7/2016 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1610352

Date Reported: 10/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1 - Surface

Project: Windmill ATI State 3

Collection Date: 10/6/2016 7:15:00 AM

Lab ID: 1610352-001

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/12/2016 6:35:36 PM	28015
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/12/2016 12:46:24 PM	27964
Surr: DNOP	42.6	70-130	S	%Rec	1	10/12/2016 12:46:24 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/11/2016 5:26:03 PM	27962
Surr: BFB	92.2	68.3-144		%Rec	1	10/11/2016 5:26:03 PM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/11/2016 5:26:03 PM	27962
Toluene	ND	0.047		mg/Kg	1	10/11/2016 5:26:03 PM	27962
Ethylbenzene	ND	0.047		mg/Kg	1	10/11/2016 5:26:03 PM	27962
Xylenes, Total	ND	0.094		mg/Kg	1	10/11/2016 5:26:03 PM	27962
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	10/11/2016 5:26:03 PM	27962

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

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

Analytical Report

Lab Order 1610352

Date Reported: 10/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2 - Surface

Project: Windmill ATI State 3

Collection Date: 10/6/2016 7:20:00 AM

Lab ID: 1610352-002

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	56	30		mg/Kg	20	10/12/2016 6:48:01 PM	28015
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	17	9.5		mg/Kg	1	10/12/2016 7:21:31 PM	27964
Surr: DNOP	87.9	70-130		%Rec	1	10/12/2016 7:21:31 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2016 5:49:30 PM	27962
Surr: BFB	91.9	68.3-144		%Rec	1	10/11/2016 5:49:30 PM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/11/2016 5:49:30 PM	27962
Toluene	ND	0.048		mg/Kg	1	10/11/2016 5:49:30 PM	27962
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2016 5:49:30 PM	27962
Xylenes, Total	ND	0.097		mg/Kg	1	10/11/2016 5:49:30 PM	27962
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/11/2016 5:49:30 PM	27962

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

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

Analytical Report

Lab Order 1610352

Date Reported: 10/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3 - 1'

Project: Windmill ATI State 3

Collection Date: 10/6/2016 7:25:00 AM

Lab ID: 1610352-003

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4100	150		mg/Kg	100	10/13/2016 4:02:42 PM	28015
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	4800	98		mg/Kg	10	10/11/2016 4:40:10 PM	27964
Surr: DNOP	0	70-130	S	%Rec	10	10/11/2016 4:40:10 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	2400	240		mg/Kg	50	10/11/2016 10:23:16 AM	27962
Surr: BFB	273	68.3-144	S	%Rec	50	10/11/2016 10:23:16 AM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.2		mg/Kg	50	10/11/2016 10:23:16 AM	27962
Toluene	ND	2.4		mg/Kg	50	10/11/2016 10:23:16 AM	27962
Ethylbenzene	ND	2.4		mg/Kg	50	10/11/2016 10:23:16 AM	27962
Xylenes, Total	74	4.9		mg/Kg	50	10/11/2016 10:23:16 AM	27962
Surr: 4-Bromofluorobenzene	123	80-120	S	%Rec	50	10/11/2016 10:23:16 AM	27962

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

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

Analytical Report

Lab Order 1610352

Date Reported: 10/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3 - 2'

Project: Windmill ATI State 3

Collection Date: 10/6/2016 7:30:00 AM

Lab ID: 1610352-004

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	14000	750		mg/Kg	500	10/13/2016 4:15:07 PM	28015
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	2300	98		mg/Kg	10	10/11/2016 5:01:56 PM	27964
Surr: DNOP	0	70-130	S	%Rec	10	10/11/2016 5:01:56 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	680	24		mg/Kg	5	10/11/2016 10:46:43 AM	27962
Surr: BFB	533	68.3-144	S	%Rec	5	10/11/2016 10:46:43 AM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/11/2016 10:46:43 AM	27962
Toluene	ND	0.24		mg/Kg	5	10/11/2016 10:46:43 AM	27962
Ethylbenzene	ND	0.24		mg/Kg	5	10/11/2016 10:46:43 AM	27962
Xylenes, Total	6.6	0.48		mg/Kg	5	10/11/2016 10:46:43 AM	27962
Surr: 4-Bromofluorobenzene	148	80-120	S	%Rec	5	10/11/2016 10:46:43 AM	27962

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

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

Analytical Report

Lab Order 1610352

Date Reported: 10/18/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 4 - Surface

Project: Windmill ATI State 3

Collection Date: 10/6/2016 7:35:00 AM

Lab ID: 1610352-005

Matrix: SOIL

Received Date: 10/7/2016 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	16000	750		mg/Kg	500	10/13/2016 4:27:32 PM	28015
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	920	96		mg/Kg	10	10/11/2016 5:23:38 PM	27964
Surr: DNOP	0	70-130	S	%Rec	10	10/11/2016 5:23:38 PM	27964
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2016 6:12:52 PM	27962
Surr: BFB	97.7	68.3-144		%Rec	1	10/11/2016 6:12:52 PM	27962
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/11/2016 6:12:52 PM	27962
Toluene	ND	0.050		mg/Kg	1	10/11/2016 6:12:52 PM	27962
Ethylbenzene	ND	0.050		mg/Kg	1	10/11/2016 6:12:52 PM	27962
Xylenes, Total	0.10	0.099		mg/Kg	1	10/11/2016 6:12:52 PM	27962
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/11/2016 6:12:52 PM	27962

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610352

18-Oct-16

Client: Yates Petroleum Corporation

Project: Windmill ATI State 3

Sample ID	MB-28015	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28015	RunNo:	37905					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180857	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28015	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	28015	RunNo:	37905					
Prep Date:	10/11/2016	Analysis Date:	10/12/2016	SeqNo:	1180858	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610352

18-Oct-16

Client: Yates Petroleum Corporation

Project: Windmill ATI State 3

Sample ID	LCS-27964		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 27964		RunNo: 37844					
Prep Date:	10/10/2016		Analysis Date: 10/11/2016		SeqNo: 1179127		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	62.6	124			
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID	MB-27964		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	27964		RunNo:	37844				
Prep Date:	10/10/2016		Analysis Date:	10/11/2016		SeqNo:	1179128		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	10		10.00		101	70	130				

Sample ID	MB-28043		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	28043		RunNo:	37941				
Prep Date:	10/13/2016		Analysis Date:	10/14/2016		SeqNo:	1182819		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.6		10.00		86.3	70	130				

Sample ID	LCS-28043		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 28043		RunNo: 37941					
Prep Date:	10/13/2016		Analysis Date: 10/14/2016		SeqNo: 1182840		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.8	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610352

18-Oct-16

Client: Yates Petroleum Corporation

Project: Windmill ATI State 3

Sample ID	MB-27962	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	27962	RunNo:	37863					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179358	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.9	68.3	144			

Sample ID	LCS-27962	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	27962	RunNo:	37863					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179359	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	74.6	123			
Surr: BFB	1000		1000		101	68.3	144			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610352

18-Oct-16

Client: Yates Petroleum Corporation

Project: Windmill ATI State 3

Sample ID	MB-27962	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	27962	RunNo:	37863					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179392	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	LCS-27962	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	27962	RunNo:	37863					
Prep Date:	10/10/2016	Analysis Date:	10/11/2016	SeqNo:	1179393	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	75.2	115			
Toluene	1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	104	78.9	117			
Xylenes, Total	3.1	0.10	3.000	0	103	79.2	115			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1610352

RcptNo: 1

Received by/date:

[Signature] 10/07/16

Logged By: Lindsay Mangin

10/7/2016 9:45:00 AM

[Signature]

Completed By: Lindsay Mangin

10/7/2016 2:58:35 PM

[Signature]

Reviewed By:

[Signature]

10/7/16

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Address: 15 South 4th Street Artesia, NM 88210

Phone #: 575-513-8799 or 575-748-4111

Email or Fax#: agriffin@yatespetroleum.com

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

Accreditation: NELAP ☐ Other

EDD (Type):

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Windmill ATI State #3

Project #:

2RP-3922

Project Manager:

Amber Griffin

PO # 205-2020

Sampler:

On Ice ☒ Yes ☐ No

Sample Temperature: 4.0

Date Time Matrix Sample Request ID

0/6/2016	7:15	Soil	1 - Surface	1 - 4oz.	Ice	HEAL No. 1610352
0/6/2016	7:20	Soil	2 - Surface	1 - 4oz.	Ice	-001
0/6/2016	7:25	Soil	3 - 1'	1 - 4oz.	Ice	-002
0/6/2016	7:30	Soil	3 - 2'	1 - 4oz.	Ice	-003
0/6/2016	7:35	Soil	4 - Surface	1 - 4oz.	Ice	-004

TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	

Analysis Request

BTEX + MTBE + TPH (Gas only)

BTEX + MTBE + TMB's (8021)

Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX Results as mg/kg. Anions: Chloride only.

Received by: [Signature] Date: 10/07/16 Time: 10:00

Relinquished by: Amber Griffin Date: 10/07/16 Time: 3:00

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



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



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

October 27, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Windmill ATI State #3

OrderNo.: 1610853

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 10 sample(s) on 10/18/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1610853

Date Reported: 10/27/2016

CLIENT: Yates Petroleum Corporation
Project: Windmill ATI State #3

Lab Order: 1610853

Lab ID:	1610853-001	Collection Date:	10/14/2016 8:16:00 AM
Client Sample ID:	3-4'	Matrix:	SOIL
Analyses	Result	PQL Qual Units	DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS			
Chloride	1800	75 mg/Kg	50 10/27/2016 12:01:28 AM 28251
Analyses	Result	PQL Qual Units	DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS			
Chloride	33	30 mg/Kg	20 10/25/2016 3:38:18 PM 28251
Lab ID:	1610853-002	Collection Date:	10/14/2016 8:18:00 AM
Client Sample ID:	3-6'	Matrix:	SOIL
Analyses	Result	PQL Qual Units	DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS			
Chloride	76	30 mg/Kg	20 10/25/2016 3:50:43 PM 28251
Lab ID:	1610853-003	Collection Date:	10/14/2016 8:22:00 AM
Client Sample ID:	3-8'	Matrix:	SOIL
Analyses	Result	PQL Qual Units	DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS			
Chloride	460	30 mg/Kg	20 10/25/2016 4:03:08 PM 28251
Lab ID:	1610853-004	Collection Date:	10/14/2016 8:27:00 AM
Client Sample ID:	3-10'	Matrix:	SOIL
Analyses	Result	PQL Qual Units	DF Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS			
Chloride	7600	300 mg/Kg	200 10/27/2016 12:13:53 AM 28251

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

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

Analytical Report

Lab Order: 1610853

Date Reported: 10/27/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Windmill ATI State #3

Lab Order: 1610853**Lab ID:** 1610853-006**Collection Date:** 10/14/2016 7:52:00 AM**Client Sample ID:** 4-2'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: LGT

Chloride	7300	300		mg/Kg	200	10/27/2016 12:26:17 AM	28251
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Lab ID: 1610853-007**Collection Date:** 10/14/2016 7:55:00 AM**Client Sample ID:** 4-4'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	630	30		mg/Kg	20	10/25/2016 4:40:22 PM	28251
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Lab ID: 1610853-008**Collection Date:** 10/14/2016 7:58:00 AM**Client Sample ID:** 4-6'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	810	30		mg/Kg	20	10/25/2016 4:52:46 PM	28251
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Lab ID: 1610853-009**Collection Date:** 10/14/2016 8:01:00 AM**Client Sample ID:** 4-8'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	160	30		mg/Kg	20	10/25/2016 5:05:11 PM	28251
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Lab ID: 1610853-010**Collection Date:** 10/14/2016 8:05:00 AM**Client Sample ID:** 4-10'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
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EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride	420	30		mg/Kg	20	10/25/2016 5:42:26 PM	28251
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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	Page 2 of 3
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610853

27-Oct-16

Client: Yates Petroleum Corporation

Project: Windmill ATI State #3

Sample ID	MB-28251	SampType	mblk	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	28251	RunNo	38161					
Prep Date	10/24/2016	Analysis Date	10/24/2016	SeqNo	1191020	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28251	SampType	lcs	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	28251	RunNo	38161					
Prep Date	10/24/2016	Analysis Date	10/24/2016	SeqNo	1191021	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1610853

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

10/18/2016 9:03:05 AM

Completed By: Ashley Gallegos

10/18/2016 11:13:04 AM

Reviewed By:

IO

10/18/16

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

