

VanHorn, Kristen, NMENV

From: Johnson, Cheryl <Cheryl.Johnson@wnr.com>
Sent: Wednesday, August 26, 2015 3:38 PM
To: VanHorn, Kristen, NMENV; Riege, Ed
Cc: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Dhawan, Neelam, NMENV
Subject: RE: Monitoring Well GWM-1

Kristen:

After I found the product in GWM-1, I changed to the interface meter to measure the rest of the wells. No product/hydrocarbons detected in OAPIS-1, STP1-NW or the NAPIS wells. I checked on GWM-1 today and was able to get less than half of a 40ml vial of product.

cj

Cheryl Johnson
Environmental Specialist
Ext. 3231

"Do not wait until the conditions are perfect to begin. Beginning makes the conditions perfect."

From: VanHorn, Kristen, NMENV [<mailto:Kristen.VanHorn@state.nm.us>]
Sent: Wednesday, August 26, 2015 3:26 PM
To: Johnson, Cheryl; Riege, Ed
Cc: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Dhawan, Neelam, NMENV
Subject: RE: Monitoring Well GWM-1

Hi Cheryl,

We were talking about the product in GWM-1 today and started to wonder if you use the water level meter to measure all of the wells? If you do, when you have time can you go back out and measure the other wells in the Aeration Basin with the interface probe just to make sure we're not missing anything?

Let me know if you have any questions.

Thanks,
Kristen

From: Johnson, Cheryl [<mailto:Cheryl.Johnson@wnr.com>]
Sent: Tuesday, August 25, 2015 10:24 AM
To: VanHorn, Kristen, NMENV
Cc: Chavez, Carl J, EMNRD
Subject: RE: Monitoring Well GWM-1

Kristen:

An update on the oil found in GWM-1. After using the "correct" instrument to gauge the hydrocarbon layer thickness, my first assessment of 4.5' of oil in GWM-1 was excessive and was based on using a standard water level meter and went by the staining on the tape. I then went back and used an oil/interface meter to gauge the hydrocarbon layer in the well: Measurement was as follows: DTP = 21.0' and DTW = 21.21'; DTB = 26.20 ft. When bailed, there was not enough oil/hydrocarbon sample to run a distillation, mostly water, so I went ahead and collected samples for: 8015D,

8260B, 8270, WQCC Metals, Cations/Anions on August 24th and sent off to Hall Labs for analysis on the same day. I will forward the lab results as soon as I receive. If there is anything else that you require, please let me know.

Thank you,

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
92 Giant Crossing Road
Gallup, NM 87301
505 722 0231 Direct
505 863-0930 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

From: VanHorn, Kristen, NMENV [<mailto:Kristen.VanHorn@state.nm.us>]
Sent: Wednesday, August 12, 2015 4:44 PM
To: Johnson, Cheryl; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Cobrain, Dave, NMENV; Dhawan, Neelam, NMENV
Subject: RE: Monitoring Well GWM-1

Thanks for letting us know.

Are you going to run a fuel fingerprint or anything else to figure out what the oily substance is?

Thanks,
Kristen

From: Johnson, Cheryl [<mailto:Cheryl.Johnson@wnr.com>]
Sent: Wednesday, August 12, 2015 4:20 PM
To: VanHorn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed
Subject: Monitoring Well GWM-1

Good Afternoon:

Yesterday while conducting 3rd quarter monitoring well inspections, GWM-1 at the aeration lagoon was found to have approximately 4.5 feet of an oily substance – no water. GWM-2 and GWM-3 are both dry and the lagoons and pond 1 are out of service. No samples were collected at GWM-1.

cj

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
92 Giant Crossing Road
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505 722 0231 Direct
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cheryl.johnson@wnr.com

VanHorn, Kristen, NMENV

From: Johnson, Cheryl <Cheryl.Johnson@wnr.com>
Sent: Thursday, September 24, 2015 8:17 AM
To: VanHorn, Kristen, NMENV
Subject: GWM-1 - Product sample results
Attachments: Rpt_1509910_Final_v1.pdf

Good Morning Kristen:

I was finally able to get a "product" sample for analysis from GWM-1. My last gauge on this well was:
9/18/15 – DTP = 21.0; DTW = 21.45.

Please call or e-mail if you have any questions..

cj

Cheryl Johnson
Environmental Specialist

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

September 23, 2015

Cheryl Johnson
Western Refining Southwest, Gallup
92 Giant Crossing Road
Gallup, NM 87301
TEL: (505) 722-0231
FAX (505) 722-0210

RE: 2015-3rd Qtr-GWM-1

OrderNo.: 1509910

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/18/2015 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 1509910

Date Reported: 9/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: GWM-1

Project: 2015-3rd Qtr-GWM-1

Collection Date: 9/18/2015 9:45:00 AM

Lab ID: 1509910-001

Matrix: PRODUCT

Received Date: 9/18/2015 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
DRO BY 8015D							Analyst: KJH
Diesel Range Organics (DRO)	68	1.2		wt%	20	9/21/2015 2:03:14 PM	21396
Motor Oil Range Organics (MRO)	18	5.9		wt%	20	9/21/2015 2:03:14 PM	21396
Surr: DNOP	0	72.8-129	S	%REC	20	9/21/2015 2:03:14 PM	21396
GRO BY 8015D							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.5		wt%	1	9/22/2015 9:56:59 AM	21410
Surr: BFB	88.0	80-120		%REC	1	9/22/2015 9:56:59 AM	21410

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	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509910

23-Sep-15

Client: Western Refining Southwest, Gallup
Project: 2015-3rd Qtr-GWM-1

Sample ID: MB-21396	SampType: MBLK	TestCode: DRO by 8015D								
Client ID: PBW	Batch ID: 21396	RunNo: 28995								
Prep Date: 9/21/2015	Analysis Date: 9/21/2015	SeqNo: 879731 Units: wt%								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	0.10	*							*
Motor Oil Range Organics (MRO)	ND	0.50								
Surr: DNOP	0.094		0.1000		93.5	72.8	129			

Sample ID: LCSD-21396	SampType: LCSD	TestCode: DRO by 8015D								
Client ID: LCSS02	Batch ID: 21396	RunNo: 28995								
Prep Date: 9/21/2015	Analysis Date: 9/21/2015	SeqNo: 879766 Units: wt%								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	0.41	0.10	0.5000	0	82.8	80	120	3.10	20	
Surr: DNOP	0.046		0.05000		92.7	72.8	129	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509910
23-Sep-15

Client: Western Refining Southwest, Gallup
Project: 2015-3rd Qtr-GWM-1

Sample ID MB-21410	SampType: MBLK		TestCode: GRO by 8015D							
Client ID: PBW	Batch ID: 21410		RunNo: 29020							
Prep Date: 9/21/2015	Analysis Date: 9/22/2015		SeqNo: 880756					Units: wt%		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	2.5								
Surr: BFB	880		1000		87.7	80	120			

Sample ID LCS-21410	SampType: LCS		TestCode: GRO by 8015D							
Client ID: LCSW	Batch ID: 21410		RunNo: 29020							
Prep Date: 9/21/2015	Analysis Date: 9/22/2015		SeqNo: 880757					Units: wt%		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	2.5	25.00	0	82.9	69.3	137			
Surr: BFB	970		1000		96.7	80	120			

Sample ID LCSD-21410	SampType: LCSD		TestCode: GRO by 8015D							
Client ID: LCSS02	Batch ID: 21410		RunNo: 29020							
Prep Date: 9/21/2015	Analysis Date: 9/22/2015		SeqNo: 880758					Units: wt%		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	2.5	25.00	0	85.0	69.3	137	2.48	20	
Surr: BFB	980		1000		98.0	80	120	0	0	

Qualifiers:

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



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: **Western Refining Gallup**

Work Order Number: **1509910**

RcptNo: **1**

Received by/date:

CS

09/18/15

Logged By: **Ashley Gallegos**

9/18/2015 4:15:00 PM

Ag

Completed By: **Ashley Gallegos**

9/19/2015 11:00:08 AM

Ag

Reviewed By:

Ja

09/21/15

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 # of preserved bottles checked for pH: (<2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?
- 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 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	5.1	Good	Yes			

