



Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 268', NMOSE & approx. 225', per Trend Map).

All results are ppm. Chlorides for documentation.

Released: 1 B/O & 70 B/PW; Recovered: 1 B/O & 65 B/PW. Release Date: 4/1/2012



**Donahue Federal SWD #1** 

30-015-00087

Section 10, T20S-R24E

**Eddy County, NM** 

**ENVIRONMENTAL SAMPLE DIAGRAM** 

(Not to Scale)

June 12, 2012

Prepared by YPC Environmental Division



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

June 07, 2012

Robert Asher Yates Petroleum 105 South 4th Artesia, NM 88210

TEL: (575) 748-4217

**FAX** 

RE: Donahue Federal SWD #1 OrderNo.: 1206016

## Dear Robert Asher:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/1/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

### **Analytical Report**

#### Lab Order 1206016

Date Reported: 6/7/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum

Client Sample ID: Comp-00.5

Project: Donahue Federal SWD #1

Collection Date: 5/31/2012 9:35:00 AM

**Lab ID:** 1206016-001

Matrix: SOIL Received Date

Received Date: 6/1/2012 9:00:00 AM

Analyses	Result	RL Qua	ıl Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	800	30	mg/Kg	20	6/4/2012 10:11.15 PM

Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

# Sample Log-In Check List

Received by: Lindsay Mangin	Client Name:		eum Corporati	on ,	,	Work Ord	ler Nur	nber: 1	206016			
Reviewed By:     Chain of Custody	Received by/date	: UG		oulail	12							
Reviewed By:     Chain of Custody	Logged By:	Lindsay Man	ıgin	6/1/2012	9:00:00 AM			0	y Allygo			
Chain of Custody       1. Were seals intact?     Yes	Completed By:	Lindsay Man	ıgin	6/1/2012	9:52:22 AM			0	y Hlygo			
1. Were seals Intact?	Reviewed By:	Deloi 1	ZAT									
2. is Chain of Custody complete? 3. How was the sample delivered?    PS   No   Not Present	Chain of Cust	ody	, ,									
Log In  4. Coolers are present? (see 19, for cooler specific information)  5. Was an attempt made to cool the samples?  6. Were all samples received at a temperature of >0° C to 6.0°C  7. Sample(a) in proper container(s)?  8. Sufficient sample volume for indicated test(s)?  9. Are samples (except VOA and ONG) properly preserved?  10. Was preservative added to bottles?  11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperyork match bottle labels?  (Note discrepancies on chain of custody)  14. Are matrices correctly testified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met?  (Vere all holding times able to be met?  (Vere all holding times able to be met?  (Vere all holding times able to be met?  Person Notified:  By Whom:  Regarding:  Client instructions:  19. Cooler No Temp *C Condition Seal Intact Seal No Seal Date Signed By  Policy No Temp *C Condition Seal Intact Seal No Seal Date Signed By	1. Were seals i	ntact?				Yes	□ N	o 🗔	Not Pr	esent 🗹		
Load In  4. Coolers are present? (see 19. for cooler specific information)  5. Was an attempt made to cool the samples?  6. Were all samples received at a temperature of >0° C to 6.0°C  7. Sample(s) in proper container(s)?  8. Sufficient sample volume for indicated test(s)?  9. Are samples (except VOA and CNIC) properly preserved?  10. Was preservative added to bottles?  11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperwork match bottle labele?  (Note discrepancies on chain of custody)  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met?  (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Person Notified:  By Whom:  Regarding:  Client instructions:  18. Additional remarks:  19. Cooler No   Temp *C   Condition   Seal Intact   Seal No   Seal Date   Signed By	2. Is Chain of C	Custody comple	ete?			Yes	<b>✓</b> N	o 🗆	Not Pr	esent 🗌		
4. Coolers are present? (see 19. for cooler specific information)  5. Was an attempt made to cool the samples?  6. Were all samples received at a temperature of >0° C to 6.0°C  7. Sample(s) in proper container(s)?  8. Sufficient sample volume for indicated test(s)?  9. Are samples (except VOA and ONG) property preserved?  10. Was preservative added to bottles?  11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperwork match bottle labels?  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met?  (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified:  By Whom:  Regarding:  Client instructions:  18. Additional remarks:  19. Cooler Information  Cooler No   Temp °C   Condition   Seal Intact   Seal No   Seal Date   Signed By	3. How was the	sample delive	red?			<u>UPS</u>						
5. Was an attempt made to cool the samples?  6. Were all samples received at a temperature of >0" C to 6.0"C  7. Sample(s) in proper container(s)?  8. Sufficient sample volume for indicated test(s)?  9. Are samples (except VOA and ONG) properly preserved?  10. Was preservative added to bottles?  11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperwork match bottle labeles?  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met?  (If no, notify customer for authorization.)  Special Handlling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding:  Client Instructions:  18. Additional remarks:  19. Cooler Information  Cooler No Temp *C Condition Seal Intact Seal No Seal Date Signed By	Log In											
6. Were all samples received at a temperature of >0° C to 6.0°C  Yes  No  No  NA    7. Sample(s) in proper container(s)?  Yes  No  No    8. Sufficient sample volume for Indicated test(s)?  Yes  No    9. Are samples (except VOA and ONG) properly preserved?  Yes  No    10. Was preservative added to bottles?  Yes  No    11. VOA vials have zero headspace?  Yes  No    12. Were any sample containers received broken?  Yes  No    13. Does paperwork match bottle labels?  Yes  No    14. Are matrices correctly identified on Chain of Custody?  Yes  No    15. Is it clear what analyses were requested?  Yes  No    16. Were all holding times able to be met?  Yes  No    17. Was client notified of all discrepancies with this order?  Yes  No    18. Additional remarks:  19. Cooler Information	4. Coolers are I	present? (see	19. for cooler s	specific inforr	nation)	Yes	<b>✓</b> N	• <b></b>		NA $\square$		
7. Sample(s) in proper container(s)?  8. Sufficient sample volume for indicated test(s)?  9. Are samples (except VOA and ONG) properly preserved?  10. Was preservative added to bottles?  11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding: Client Instructions:  18. Additional remarks:  19. Cooler Information Cooler No Temp *C Condition Seal Intact Seal No Seal Date Signed By	5. Was an atter	mpt made to co	ool the sample	s?		Yes	<b>✓</b> N	o 🗆		NA 🗆		
8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does papenwork match bottle labeis? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 15. Is it clear what analyses were requested? (If no, notify customer for authorization.)  Special Handling (if applicable) 17. Was client notified of all discrepancies with this order?  Person Notified: By Whom: Regarding: Client Instructions:  18. Additional remarks:  19. Cooler Information Cooler No Temp *C Condition Seal Intact Seal No Seal Date Signed By	6. Were all san	nples received	at a temperati	ure of >0° C	to 6.0°C	Yes	<b>✓</b> N	o 🗆		na 🗆		
9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles?  11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 15. Is it clear what analyses were requested? 16. Were all holding times able to be met? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified: By Whom: Regarding: Client Instructions:  18. Additional remarks:  19. Cooler No Temp © Condition Seal Intact Seal No Seal Date Signed By	7. Sample(s) in	proper contair	ner(s)?			Yes	<b>✓</b> N	o 🗆				
10. Was preservative added to bottles?  11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding: Client Instructions:  18. Additional remarks:  19. Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By  No No No VOA Vials   # of preserved bottles checked for pH:  # of preserv	8. Sufficient sai	mple volume fo	or indicated tes	st(s)?		Yes	<b>✓</b> N	o 🗆				
11. VOA vials have zero headspace?  12. Were any sample containers received broken?  13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding:  Client Instructions:  18. Additional remarks:  19. Cooler No   Temp \(^{\infty}\) Condition   Seal Intact   Seal No   Seal Date   Signed By	9. Are samples	(except VOA a	and ONG) pro	perly preserv	ed?	Yes	✓ N	o 🗆				
12. Were any sample containers received broken?  13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding:  Client Instructions:  18. Additional remarks:  19. Cooler No Temp °C   Condition   Seal Intact   Seal No   Seal Date   Signed By	10. Was preserv	ative added to	bottles?			Yes	□ N	o 🗹		NA 🗆		
12. Were any sample containers received broken?  13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)  14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding:  Client Instructions:  18. Additional remarks:  19. Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By  # of preserved bottles # # of preserved bottles checked for pH:  # of preserved bottles # # of preserved bottles checked bottles checked bottles checked bottles checked	11 VOA vials ha	ave zero heads	pace?			Yes	□ N	o 🗆	No VOA	. Vials 🗹		
13. Does paperwork match bottle labels?   14. Are matrices correctly identified on Chain of Custody?   15. Is it clear what analyses were requested?   16. Were all holding times able to be met?   16. Were all holding times able to be met?   17. Was client notified of all discrepancies with this order?   18. Was client notified of all discrepancies with this order?   19. Coler Information   19. Cooler Information   1				ken?		Yes	$\square$ N	o 🗹			···-	
14. Are matrices correctly identified on Chain of Custody?  15. Is it clear what analyses were requested?  16. Were all holding times able to be met? (If no, notify customer for authorization.)  Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified: By Whom: Regarding: Client Instructions:  18. Additional remarks:  19. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By					-	Yes	<b>∠</b> N	o 🗆	bo	ottles checked		
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Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding:  Client Instructions:  18. Additional remarks:  19. Cooler Information  Cooler No Temp ℃ Condition Seal Intact Seal No Seal Date Signed By	15. Is it clear wh	at analyses we	ere requested?	•		Yes	<b>✓</b> N	o 🗆		Adjusted?		
Special Handling (if applicable)  17. Was client notified of all discrepancies with this order?  Person Notified:  By Whom:  Regarding:  Client Instructions:  18. Additional remarks:  19. Cooler Information  Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By	. • •	•				Yes	<b>∠</b> N	o 🗆		Checked by	:	
Person Notified:  By Whom:  Regarding:  Client Instructions:  19. Cooler Information  Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By	Special Handi	ing (if appl	icable)									
By Whom: Via:eMailPhoneFaxIn Person  Regarding: Client Instructions:  18. Additional remarks:  19. Cooler Information Cooler No Temp C Condition   Seal Intact   Seal No   Seal Date   Signed By				th this order?	?	Yes	□ N	o 🗆		NA 🗹		
Regarding: Client Instructions:  18. Additional remarks:  19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By	Person	Notified:			Date:	,				<u> </u>		
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18. Additional remarks:  19. Cooler Information Cooler No Temp C Condition   Seal Intact   Seal No   Seal Date   Signed By	_	·	**************************************					o in the same			-	
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Client:	Yates Pe	troleum	Corporation	X Standard	 □ Rush	·			' 												
				Project Name:		ANALYSIS LABORATO  www.hallenvironmental.com															
Mailing Add	ress:	105 S.	Fourth Street		Donahue Fed	deral SWD #1		49	01 H									109			
			ı, NM 88210	Project #:				4901 Hawkins NE - Albuquerque, NM 87 Tel. 505-345-3975 Fax 505-345-4107													
Phone #:			8-4217	·	30-015-0008	7											_	ar and	Ä		
email or Fax#: boba@yatespetroleum.com			yatespetroleum.com	Project Manag	ger:				1)					)							
QA/QC Pack X_Standar	-		☐ Level 4 (Full Validation)		Robert Asher	<b>r</b>	(8021)	TPH (Gas only)	(Gas/Diesel)					04,504	PCB's						
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Date :	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX + MTBE	BTEX + MTBE	TPH Method	TPH (Method	EDB (Method	8310 (PNA c	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Von M)	Alf Bunnes
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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

June 07, 2012

Robert Asher Yates Petroleum 105 South 4th Artesia, NM 88210

TEL: (575) 748-4217

FAX

RE: Donahue Federal SWD #1

OrderNo.: 1206016

#### Dear Robert Asher:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/1/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

### **Analytical Report**

## Lab Order 1206016

Date Reported: 6/7/2012

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum

Client Sample ID: Comp-00.5

Project: Donahue Federal SWD #1

**Collection Date:** 5/31/2012 9:35:00 AM

**Lab ID:** 1206016-001

Received Date: 6/1/2012 9:00:00 AM

Analyses	Result RL Qual Units		Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	300	9.9		mg/Kg	1	6/6/2012 7:25.51 AM
Surr DNOP	124	82.1-121	S	%REC	1	6/6/2012 7.25:51 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/4/2012 11:49.27 AM
Surr BFB	91 4	69.7-121		%REC	1	6/4/2012 11:49.27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	6/4/2012 11:49:27 AM
Toluene	ND	0.048		mg/Kg	1	6/4/2012 11:49:27 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/4/2012 11:49:27 AM
Xylenes, Total	ND	0.096		mg/Kg	1	6/4/2012 11:49:27 AM
Surr: 4-Bromofluorobenzene	96.7	80-120		%REC	1	6/4/2012 11:49:27 AM

Matrix: SOIL

#### Qualifiers:

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

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

# Sample Log-In Check List

Work Order Number: 1206016 Client Name: Yates Petroleum Corporation MG Received by/date: 6/1/2012 9:00:00 AM Logged By: Lindsay Mangin Lindsay Mangin 6/1/2012 9:52:22 AM Completed By: Reviewed By: Chain of Custody Yes No . Not Present 1. Were seals intact? Yes 🔽 No 🗌 Not Present 2. Is Chain of Custody complete? **UPS** 3 How was the sample delivered? Log In NA 🗌 Yes 🔽 No 🗌 4 Coolers are present? (see 19. for cooler specific information) Yes V No 🗌 NA 🗆 5. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗍 6. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 7. Sample(s) in proper container(s)? Yes 🗹 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 9 Are samples (except VOA and ONG) properly preserved? Yes No 🗹 NA 🗆 10. Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes D No 🗹 12. Were any sample containers received broken? # of preserved Yes 🗸 No 🗌 13 Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes 🗹 No 🗌 (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗹 No 🗌 15. Is it clear what analyses were requested? Yes 🗹 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes 🗌 No 🗍 NA 🗹 17. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date

Cham-or-Custouy Record			IU				1		4	•	L	AI	1 6	=M	VT	D/	<b>TN</b>	MI	ZN'	TA			
Client: Yates Petroleum Corporation			X Standard	□ Rush				16-/	_  														
				X Standard Rush ANALYSIS LABORATOR www.hallenvironmental.com																			
Mailing Address: 105 S. Fourth Street				Donahue Federal SWD #1 4901 Hawkins NE - Albuquerque, NM 87109																			
			, NM 882			Project #:																	
Phone #:	. :.	575-748-4217				<u>.</u> .,	30-015-00087				70 Table 201	27575	Contract Con	Contract Contract	THE RESERVE	NAME OF TAXABLE		CARGO PAR	To the same of	AND DESCRIPTION			
email or Fa	ıx#:	boba@	yatespe	troleum.co	om	Project Mana	Project Manager:					1)				]							
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Date	Time	Matrix	Sam	ple Requ	uest ID	Container Type and #	Preservative Type	I IIE	LNo.	BTEX + MTBE	BTEX + MTBE	TPH Method 8015B	TPH (Method	EDB (Method	8310 (PNA o	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	-		Air Bubblee
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