

**TABLE 1**  
**GROUNDWATER ANALYTICAL AND FIELD RESULTS**  
**FOUR WAY-62N65W/16SENW**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
MW01	8/9/2016	<1.00	<1.00	1.42	<1.00	45.79	51.54
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.60	54.40
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.94	56.06
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.18	51.82
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.40	49.60
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.12	52.88
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.89	56.11
MW02	8/9/2016	<b>18.1</b>	110	11.7	208	45.78	51.65
	1/16/2017	<b>294</b>	<b>2,000</b>	187	<b>6,750</b>	45.38	54.50
	4/12/2017	<b>1,410</b>	<20.0	<b>848</b>	<b>33,500</b>	43.75	56.13
	7/14/2017	<b>526</b>	<b>7,200</b>	<b>902</b>	<b>22,500</b>	48.13	51.75
	10/26/2017	Free Product - Not Sampled				50.20	49.68
	11/8/2017	<1.00	<1.00	<1.00	29.7	NM	NA
	1/2/2018	<1.00	<1.00	<1.00	4.52	46.92	52.96
	4/9/2018	<b>46.7</b>	59.0	3.65	512	43.68	56.20
MW03	8/9/2016	<1.00	<1.00	<1.00	<1.00	46.35	51.69
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.82	54.52
	4/12/2017	<1.00	<1.00	<1.00	<1.00	44.18	56.16
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.41	51.93
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.64	49.70
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.36	52.98
	4/9/2018	<1.00	<1.00	<1.00	<1.00	44.12	56.22
MW04	8/9/2016	<b>6.55</b>	48.6	7.85	216	45.67	51.67
	1/16/2017	<b>415</b>	<b>1,700</b>	122	<b>3,090</b>	45.40	54.50
	4/12/2017	<b>491</b>	491	<b>2,460</b>	<b>3,470</b>	43.71	56.19
	7/14/2017	<b>39.0</b>	57.6	<20.0	183	47.92	51.98
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.16	49.74
	1/2/2018	3.51	25.7	1.68	52.6	46.90	53.00
	4/9/2018	<b>12.4</b>	26.4	<1.00	26.4	43.64	56.26
MW05	8/9/2016	1.32	8.29	2.4	29.5	45.18	51.60
	1/16/2017	<1.00	<1.00	<1.00	<1.00	44.88	54.40
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.18	56.10
	7/14/2017	<1.00	<1.00	<1.00	1.03	47.44	51.84



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**FOUR WAY-62N65W/16SENW**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Depth Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
	10/26/2017	<1.00	<1.00	<1.00	<1.00	49.67	49.61
	1/2/2018	<1.00	<1.00	<1.00	<1.00	46.40	52.88
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.14	56.14
MW06	8/9/2016	<1.00	<1.00	<1.00	<1.00	45.81	51.84
	1/16/2017	<1.00	<1.00	<1.00	<1.00	45.57	54.63
	4/12/2017	<1.00	<1.00	<1.00	<1.00	43.91	56.29
	7/14/2017	<1.00	<1.00	<1.00	<1.00	48.12	52.08
	10/26/2017	<1.00	<1.00	<1.00	<1.00	50.37	49.83
	1/2/2018	<1.00	<1.00	<1.00	<1.00	47.10	53.10
	4/9/2018	<1.00	<1.00	<1.00	<1.00	43.85	56.35
<b>COGCC Allowable Levels</b>		<b>5</b>	<b>1000</b>	<b>700</b>	<b>1400</b>		

Notes: COGCC - Colorado Oil and Gas Conservation Commission  
ft bgs - feet below ground surface  
NA - not analyzed/not available  
NM - not measured

µg/L - micrograms per liter  
< - less than laboratory reporting limit  
**Bold indicates result exceeds allowable level**  
Excavation groundwater depth is approximate





April 17, 2018

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

Project Name - KMG - Four Way-62N65W/16SEW

Project Number - 014216073/WO#89053715

Attached are your analytical results for KMG - Four Way-62N65W/16SEW received by Origins Laboratory, Inc. April 09, 2018. This project is associated with Origins project number Y804169-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Sulzberger  
Project Number: 014216073/WO#89053715  
Project: KMG - Four Way-62N65W/16SEW

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y804169-01	Water	April 9, 2018 10:30	04/09/2018 15:42
MW02	Y804169-02	Water	April 9, 2018 10:35	04/09/2018 15:42
MW03	Y804169-03	Water	April 9, 2018 10:40	04/09/2018 15:42
MW04	Y804169-04	Water	April 9, 2018 10:45	04/09/2018 15:42
MW05	Y804169-05	Water	April 9, 2018 10:50	04/09/2018 15:42
MW06	Y804169-06	Water	April 9, 2018 10:55	04/09/2018 15:42

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014216073/WO#89053715  
 Project: KMG - Four Way-62N65W/16SENW

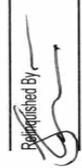
**ORIGINS**  
 LABORATORY, INC

111  
 y004169

1725 Elk Place, Denver, CO 80211  
 Laboratory # - 303.433.1322

Client: LT Environmental, Inc. Project Manager: Brian Sulzberger  
 Project: KMG - Four Way-62N65W/16SENW Project Number: 014216073/WO#89053715

Number	Sample Identification	Matrix	Sample Date	Sample Time	Sampled By	Container	Qty	Analyses
01-001	MM01	Water	4-9-18	1030	DS	12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
02-001	MM02	Water		1035		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
03-001	MM03	Water		1040		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
04-001	MM04	Water		1045		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
05-001	MM05	Water		1050		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C
06-001	MM06	Water		1055		12_40mL Amber VOA Vial - HCL	3	BTEX by EPA 8260C

Relinquished By:  Date / Time: 4-9-18 15:42  
 Relinquished By:  Date / Time: 4/9/18 15:42  
 Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date / Time: \_\_\_\_\_

Temperature on Receipt: 14.6  
 Turn Around Time:  72-hr  Standard  
 Same Day:  24-hr  48-hr

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014216073/WO#89053715  
 Project: KMG - Four Way-62N65W/16SENW

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

**Sample Receipt Checklist**

Origins Work Order: Y8041689

Client: LTE

Client Project ID: KMG - Four Way - 62N65W

Checklist Completed by: JG

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/10/2018

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 14.6 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)?</sup>		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)?</sup>		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)?</sup>	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)?</sup> (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) VP

Date/Time Reviewed 4/11/18

Origins Laboratory, Inc.



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 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014216073/WO#89053715  
 Project: KMG - Four Way-62N65W/16SENW

**MW01**

**4/9/2018 10:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y804169-01 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8D1302	04/13/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.8 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"	"	

Origins Laboratory, Inc.



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**MW02**

**4/9/2018 10:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y804169-02 (Water)**

**BTEX by EPA 8260C**

Benzene	46.7	1.00	ug/L	1	B8D1302	04/13/2018	04/13/2018	
Toluene	59.0	1.00	"	"	"	"	"	
Ethylbenzene	3.65	1.00	"	"	"	"	"	
Xylenes, total	512	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	84-114			"	"	"	

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 Project: KMG - Four Way-62N65W/16SENW

**MW03**

**4/9/2018 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y804169-03 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8D1302	04/13/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	100 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	84-114			"	"	"	

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 Project: KMG - Four Way-62N65W/16SEW

**MW04**

**4/9/2018 10:45:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y804169-04 (Water)**

**BTEX by EPA 8260C**

Benzene	12.4	1.00	ug/L	1	B8D1302	04/13/2018	04/13/2018	
Toluene	26.4	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	26.4	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	99.6 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	84-114			"	"	"	

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**MW05**

**4/9/2018 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y804169-05 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8D1302	04/13/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"	
Surrogate: Toluene-d8	98.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.8 %	84-114			"	"	"	

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**MW06**

**4/9/2018 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y804169-06 (Water)**

**BTEX by EPA 8260C**

Benzene	ND	1.00	ug/L	1	B8D1302	04/13/2018	04/13/2018	U
Toluene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	ND	1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.7 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	84-114			"	"	"	

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 Project: KMG - Four Way-62N65W/16SENW

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8D1302 - EPA 5030B (Water)**

**Blank (B8D1302-BLK1)**

Prepared: 04/13/2018 Analyzed: 04/13/2018

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.3	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

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 Project: KMG - Four Way-62N65W/16SENW

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1302 - EPA 5030B (Water)

**LCS (B8D1302-BS1)**

Prepared: 04/13/2018 Analyzed: 04/13/2018

Benzene	45.1	1.00	ug/L	50.0		90.2	73.3-129			
Toluene	44.5	1.00	"	50.0		89.1	76.2-123			
Ethylbenzene	44.5	1.00	"	50.0		89.0	73.6-130			
m,p-Xylene	88.9	2.00	"	100		88.9	76.1-126			
o-Xylene	44.9	1.00	"	50.0		89.8	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B8D1302 - EPA 5030B (Water)

Matrix Spike (B8D1302-MS1)	Source: Y804163-01			Prepared: 04/13/2018 Analyzed: 04/13/2018						
Benzene	52.4	1.00	ug/L	50.0	ND	105	74-130			
Toluene	52.4	1.00	"	50.0	ND	105	73-131			
Ethylbenzene	55.0	1.00	"	50.0	0.080	110	76-132			
m,p-Xylene	107	2.00	"	100	ND	107	69-139			
o-Xylene	51.3	1.00	"	50.0	ND	103	74-131			
Surrogate: 1,2-Dichloroethane-d4	66		"	62.5		106	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	84-114			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Sulzberger  
 Project Number: 014216073/WO#89053715  
 Project: KMG - Four Way-62N65W/16SENW

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B8D1302 - EPA 5030B (Water)**

Matrix Spike Dup (B8D1302-MSD1)	Source: Y804163-01			Prepared: 04/13/2018 Analyzed: 04/13/2018						
Benzene	55.7	1.00	ug/L	50.0	ND	111	74-130	6.18	20	
Toluene	55.8	1.00	"	50.0	ND	112	73-131	6.30	20	
Ethylbenzene	58.6	1.00	"	50.0	0.080	117	76-132	6.44	20	
m,p-Xylene	115	2.00	"	100	ND	115	69-139	7.21	20	
o-Xylene	53.8	1.00	"	50.0	ND	108	74-131	4.63	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	84-114			

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Noelle Doyle Mathis, President