

October 24, 2017

CGRS, Inc

Craig Mulica

1301 Academy Court

Fort Collins CO 80524

Project Name - North Poudre

Project Number - 16921aa

Attached are your analytical results for North Poudre received by Origins Laboratory, Inc. October 13, 2017. This project is associated with Origins project number Y710196-01.

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



CGRS, Inc

1301 Academy Court

Fort Collins CO 80524

Craig Mulica

Project Number: 16921aa

Project: North Poudre

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-West@7'	Y710196-01	Soil	October 11, 2017 15:30	10/13/2017 09:07

Origins Laboratory, Inc.



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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16921aa
Project: North Poudre

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1710196

Client: CGRS Inc

Client Project ID: North Poudre

Checklist Completed by: DM

Shipped Via: HS 1-26-12
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10-13-12 1352

Airbill #: 1003

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 0.4 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾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) DM

Date/Time Reviewed 10/16/12

Origins Laboratory, Inc.

Jefe Pellegrini

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CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16921aa
Project: North Poudre

SS-West@7'

10/11/2017 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y710196-01 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1901	10/19/2017	10/20/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1902	10/19/2017	10/24/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.3 %	59-131			"	"	"	
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1301 Academy Court
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Craig Mulica
Project Number: 16921aa
Project: North Poudre

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
Batch B7J1901 - EPA 5030 (soil)										
Blank (B7J1901-BLK1)					Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7J1901 - EPA 5030 (soil)										
Blank (B7J1901-BLK2)					Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7J1901 - EPA 5030 (soil)										
Blank (B7J1901-BLK3)					Prepared: 10/19/2017 Analyzed: 10/20/2017					
Benzene	ND	0.002	mg/kg							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7J1901 - EPA 5030 (soil)										
LCS (B7J1901-BS1)					Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.098	0.002	"	0.100		98.2	74.5-128			
Ethylbenzene	0.111	0.002	"	0.100		111	66.4-127			
m,p-Xylene	0.216	0.004	"	0.200		108	76.6-124			
o-Xylene	0.109	0.002	"	0.100		109	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.2	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J1901 - EPA 5030 (soil)

LCS (B7J1901-BS2)

Prepared: 10/19/2017 Analyzed: 10/19/2017

Benzene	0.122	0.002	mg/kg	0.100		122	77.1-124			
Toluene	0.116	0.002	"	0.100		116	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.216	0.004	"	0.200		108	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J1901 - EPA 5030 (soil)

LCS (B7J1901-BS3)

Prepared: 10/19/2017 Analyzed: 10/19/2017

Benzene	0.118	0.002	mg/kg	0.100		118	77.1-124			
Toluene	0.108	0.002	"	0.100		108	74.5-128			
Ethylbenzene	0.100	0.002	"	0.100		100	66.4-127			
m,p-Xylene	0.195	0.004	"	0.200		97.3	76.6-124			
o-Xylene	0.098	0.002	"	0.100		97.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J1901 - EPA 5030 (soil)

Matrix Spike (B7J1901-MS1)		Source: Y710246-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.120	0.002	"	0.100	0.001	119	65.1-130			
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130			
m,p-Xylene	0.213	0.004	"	0.200	ND	106	46.5-137			
o-Xylene	0.108	0.002	"	0.100	ND	108	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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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 B7J1901 - EPA 5030 (soil)

Matrix Spike (B7J1901-MS2)		Source: Y710282-05			Prepared: 10/19/2017 Analyzed: 10/20/2017					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	95.3	65.1-130			
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130			
m,p-Xylene	0.214	0.004	"	0.200	ND	107	46.5-137			
o-Xylene	0.107	0.002	"	0.100	ND	107	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J1901 - EPA 5030 (soil)

Matrix Spike (B7J1901-MS3)		Source: Y710290-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.096	0.002	mg/kg	0.100	ND	95.6	71.8-126			
Toluene	0.077	0.002	"	0.100	ND	77.1	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	87.6	62.2-130			
m,p-Xylene	0.173	0.004	"	0.200	0.001	86.0	46.5-137			
o-Xylene	0.090	0.002	"	0.100	0.0005	89.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	56		"	62.5		90.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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 B7J1901 - EPA 5030 (soil)

Matrix Spike Dup (B7J1901-MSD1)		Source: Y710246-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.122	0.002	mg/kg	0.100	ND	122	71.8-126	9.81	11.3	
Toluene	0.118	0.002	"	0.100	0.001	117	65.1-130	1.83	15.4	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130	2.55	19.6	
m,p-Xylene	0.209	0.004	"	0.200	ND	104	46.5-137	1.91	19.2	
o-Xylene	0.105	0.002	"	0.100	ND	105	54.2-134	2.14	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	53		"	62.5		84.7	70-130			

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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 B7J1901 - EPA 5030 (soil)

Matrix Spike Dup (B7J1901-MSD2)		Source: Y710282-05			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.098	0.002	mg/kg	0.100	ND	98.0	71.8-126	7.65	11.3	
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130	6.30	15.4	QR-02
Ethylbenzene	0.095	0.002	"	0.100	ND	94.8	62.2-130	15.9	19.6	QR-03
m,p-Xylene	0.185	0.004	"	0.200	ND	92.3	46.5-137	14.9	19.2	QR-02
o-Xylene	0.094	0.002	"	0.100	ND	94.4	54.2-134	12.8	17.9	QR-02
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	66		"	62.5		106	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7J1901 - EPA 5030 (soil)

Matrix Spike Dup (B7J1901-MSD3)		Source: Y710290-01			Prepared: 10/19/2017 Analyzed: 10/19/2017					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126	5.67	11.3	
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130	31.8	15.4	QR-02
Ethylbenzene	0.095	0.002	"	0.100	ND	95.3	62.2-130	8.44	19.6	
m,p-Xylene	0.187	0.004	"	0.200	0.001	92.9	46.5-137	7.65	19.2	
o-Xylene	0.096	0.002	"	0.100	0.0005	95.1	54.2-134	6.28	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.6	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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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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Extractable Petroleum Hydrocarbons by 8015C - 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 B7J1902 - EPA 3550B

Blank (B7J1902-BLK2)

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	46		"	50.0		91.2	59-131			

LCS (B7J1902-BS2)

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	835	50.0	mg/kg	1000		83.5	59-133			
Diesel (C10-C28)	991	50.0	"	1000		99.1	64-121			
Surrogate: o-Terphenyl	45		"	50.0		89.6	59-131			

Matrix Spike (B7J1902-MS2)

Source: Y710284-05

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	833	50.0	mg/kg	1000	30.5	80.2	57-139			
Diesel (C10-C28)	1100	50.0	"	1000	16.4	109	53-125			
Surrogate: o-Terphenyl	40		"	50.0		79.4	59-131			

Matrix Spike Dup (B7J1902-MSD2)

Source: Y710284-05

Prepared: 10/19/2017 Analyzed: 10/19/2017

Gasoline (C6-C10)	809	50.0	mg/kg	1000	30.5	77.8	57-139	2.90	20	
Diesel (C10-C28)	1130	50.0	"	1000	16.4	111	53-125	2.52	20	
Surrogate: o-Terphenyl	43		"	50.0		85.4	59-131			

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.

CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Craig Mulica
Project Number: 16921aa
Project: North Poudre

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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