

December 17, 2013

New Mexico Environment Department Petroleum Storage Tank Program 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505

Attn: Ms. Susan von Gonten, CPG

Phone: (505) 476-4389

E-mail: susan.vongonten@state.nm.us

Re: Report of NAPL Recovery
Former Fairview Station
1626 North Riverside Drive
Espanola, New Mexico
Facility # 28779 / Release ID # 4657 / Work Plan ID # 16821
Terracon Project No. 66127029.2

Dear Ms. von Gonten:

Terracon Consultants, Inc. (Terracon) is pleased to provide this report of three bi-weekly events of non-aqueous phase liquid (NAPL) recovery at the above-referenced site. Our services were performed in accordance with our Work Plan dated July 24, 2013 and the Petroleum Storage Tank Bureau (PSTB) Work Plan approval dated August 15, 2013. NAPL gauging and recovery activities were performed on October 29, 2013, November 12, 2013 and November 26, 2013. In general, the NAPL thicknesses increased during the three events and averaged 1.14 feet in MW-1, 5.56 feet in MW-2, and 6.80 feet in MW-3. Terracon conducted NAPL recovery during each of the three events using hand bailing. A total of approximately 2.1 gallons of NAPL was removed from MW-1, approximately 9.3 gallons of NAPL were recovered from MW-2, and approximately 16.3 gallons of NAPL were removed from MW-3. In addition, approximately 9.0 gallons of NAPL was removed from newly installed monitoring well MW-8. The ground water flow direction was toward the southwest during the October 29, 2013 gauging event, toward a depression in the vicinity of the former tank hold during the November 12, 2013 gauging event, and toward the south during the November 26, 2013 sampling event. Attached Exhibit 1 is a Site Diagram of the site and adjoining properties. Exhibits 2-4 depict the NAPL thicknesses during each of the three events and attached Exhibits 5-7 depict the direction of ground water flow. The recovered NAPL was stored on-site in a 55-gallon drum, which was labeled to note hazardous contents.



Terracon Consultants, Inc. 4905 Hawkins NE Albuquerque, NM 87109 P (505) 797 4287 F (505) 797 4288 terracon.com

NAPL Recovery Report

Former Fairview Station Espanola, New Mexico
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Terracon recommends continued remedial actions at the site to remove the NAPL and reduce dissolved-phase hydrocarbon concentrations in the on-site aquifer.

If you should have any questions or comments regarding this report, please contact Mark Hillier at (505) 797-4287.

Sincerely,

Terracon

Julie A. Smith

Environmental Scientist

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Mark R. Hillier, P.G. (TX)

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Department Manager

Attachments: Table 1 – Ground Water and NAPL Measurements

Exhibit 1 – Site Diagram

Exhibits 2-4 – NAPL Thickness Maps

Exhibits 5-7 – Ground Water Gradient Maps

TABLE 1 GROUND WATER AND NAPL MEASUREMENTS

Fairview Station - Facility # 28779, Relese ID# 4657, WP ID# 16613 1626 N. Riverside Drive

1626 N. Riverside Drive, Espanola, New Mexico

Monitor Well	Gauging Date	Total Depth From TOC ¹ (feet)	Screened Interval (feet)	Top of Casing Elevation (feet)	Depth to Groundwater From TOC (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Removed (gallons)	Cumulative NAPL Removed (gallons)	Groundwater Elevation ² (feet)
	2/1/2013		13-28	5622.71	not measured	not measured		0.0	0.0	
	2/4/2013			5622.71	not measured	not measured		0.0	0.0	
	2/27/2013			5622.71	14.40	14.06	0.34	0.0	0.0	5608.56
	6/3/2013			5622.71	14.20	13.92	0.28	0.5	0.5	5608.71
MW-1	6/27/2013	28		5622.71	14.80	14.43	0.37	0.1	0.6	5608.18
	7/10/2013			5622.71	14.45	14.21	0.24	0.0	0.6	5608.43
	10/29/2013			5622.71	15.25	13.36	1.89	1.5	2.1	5608.84
	11/12/2013			5622.71	15.83	15.37	0.46	0.3	2.4	5607.22
	11/26/2013			5622.71	14.90	13.82	1.08	0.3	2.7	5608.60
	2/1/2013			5622.99	not measured	not measured		4.5	4.5	
	2/4/2013			5622.99	not measured	not measured		5.0	9.5	
	2/27/2013			5622.99	18.56	13.11	5.45	0.0	9.5	5608.40
	6/3/2013			5622.99	17.39	13.42	3.97	4.5	14.0	5608.49
MW-2	6/27/2013	28	13-28	5622.99	18.20	13.98	4.22	3.0	17.0	5607.87
	7/10/2013	013 013		5622.99	17.50	13.67	3.83	2.5	19.5	5608.28
	10/29/2013			5622.99	18.68	12.66	6.02	3.5	23.0	5608.70
	11/12/2013			5622.99	19.40	14.34	5.06	2.8	25.8	5607.28
	11/26/2013			5622.99	18.56	12.95	5.61	3.0	28.8	5608.52

TABLE 1 Con't.

GROUND WATER AND NAPL MEASUREMENTS

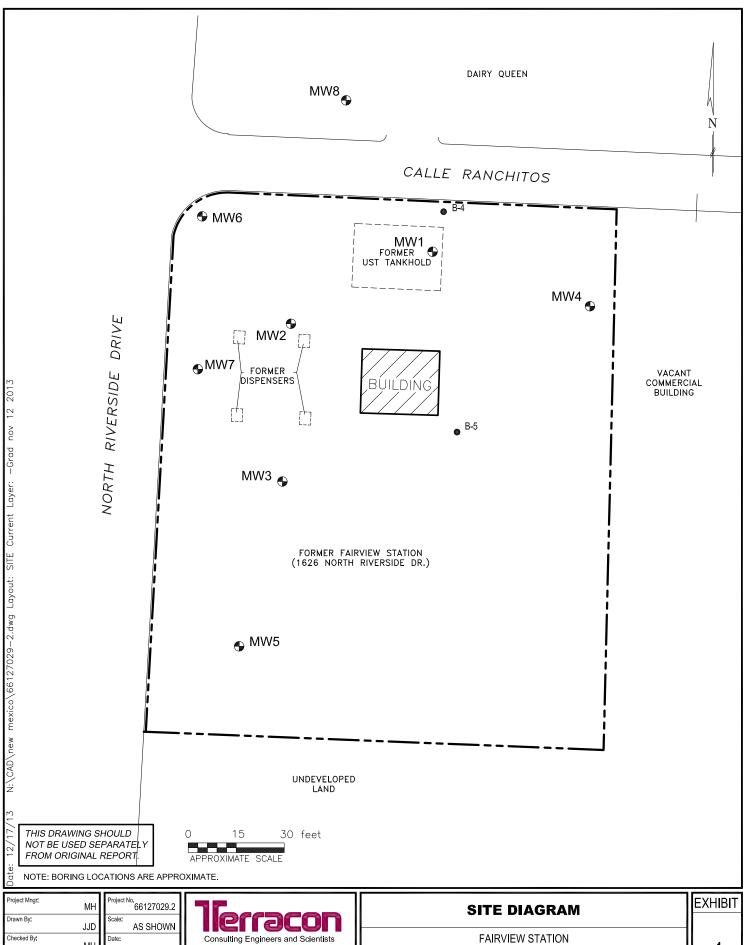
Fairview Station - Facility # 28779, Relese ID# 4657, WP ID# 16613 1626 N. Riverside Drive

1626 N. Riverside Drive, Espanola, New Mexico

Monitor Well	Gauging Date	Total Depth From TOC ¹ (feet)	Screened Interval (feet)	Top of Casing Elevation (feet)	Depth to Groundwater From TOC (feet)	Depth to NAPL (feet)	NAPL Thickness (feet)	NAPL Removed (gallons)	NAPL Removed (gallons)	Groundwater Elevation ² (feet)
	2/1/2013			5623.02	not measured	not measured		0.5	0.5	
	2/4/2013			5623.02	not measured	not measured		2.0	2.5	
	2/27/2013			5623.02	16.69	13.80	2.89	0.0	2.5	5608.44
	6/3/2013			5623.02	17.57	13.46	4.11	4.5	7.0	5608.45
MW-3	6/27/2013	28	13-28	5623.02	18.33	13.88	4.45	3.5	10.5	5607.93
	7/10/2013			5623.02	17.68	13.70	3.98	3.0	13.5	5608.24
	10/29/2013			5623.02	19.46	12.50	6.96	7.0	20.5	5608.63
	11/12/2013			5623.02	20.62	13.19	7.43	5.0	25.5	5607.82
	11/26/2013			5623.02	19.02	13.02	6.00	4.3	29.8	5608.37
	10/29/2013			5623.67	14.13	14.13	0.00	0.0		5609.54
MW-4	11/12/2013	27	12-27	5623.67	15.12	15.12	0.00	0.0		5608.55
	11/26/2013			5623.67	15.20	15.20	0.00	0.0		5608.47
	10/29/2013			5622.41	13.77	13.77	0.00	0.0		5608.64
MW-5	11/12/2013	25	10-25	5622.41	13.93	13.93	0.00	0.0		5608.48
	11/26/2013			5622.41	14.07	14.07	0.00	0.0		5608.34
	10/29/2013			5622.80	13.97	13.97	0.00	0.0		5608.83
MW-6	11/12/2013	25	10-25	5622.80	14.40	14.39	0.01	0.0		5608.41
	11/26/2013			5622.80	14.33	14.31	0.02	0.0		5608.48
	10/29/2013			5622.86	14.17	14.17	0.00	0.0		5608.69
MW-7	11/12/2013	25	10-25	5622.86	14.62	14.62	0.00	0.0		5608.24
	11/26/2013			5622.86	14.50	14.50	0.00	0.0		5608.36
	10/29/2013			5623.90	17.35	13.80	3.55	2.5	2.5	5609.14
MW-8	11/12/2013	27	12-27	5623.90	21.03	14.49	6.54	3.0	5.5	5607.64
	11/26/2013			5623.90	18.30	14.05	4.25	3.5	9.0	5608.70

^{1 -} TOC = Top-of-Casing elevation above mean sea level surveyed by a NM Licensed Surveyor.

^{2 -} Product density value of 0.729 used for purpose of calculating water column overburden.

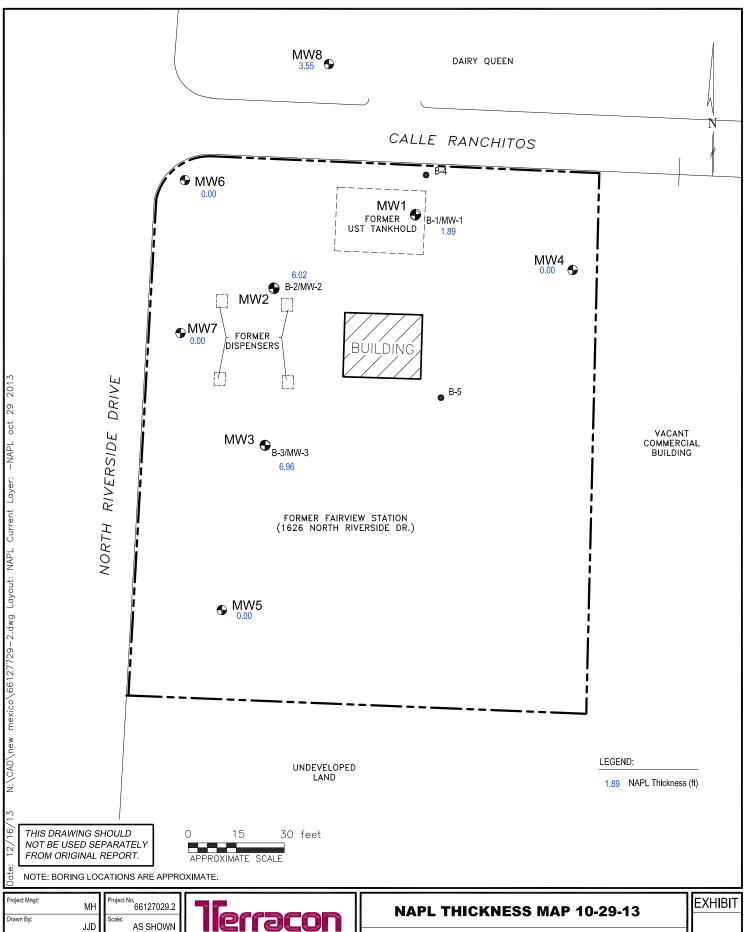


МН Approved By:

12/17/13



1626 NORTH RIVERSIDE DRIVE ESPANOLA, RIO ARRIBA COUNTY, NEW MEXICO

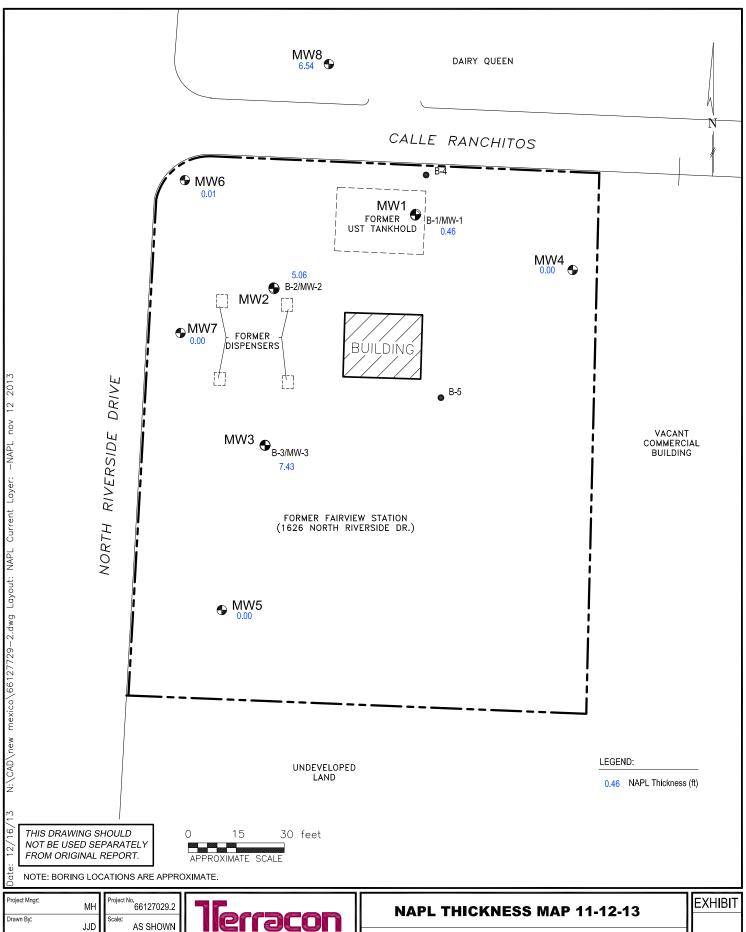


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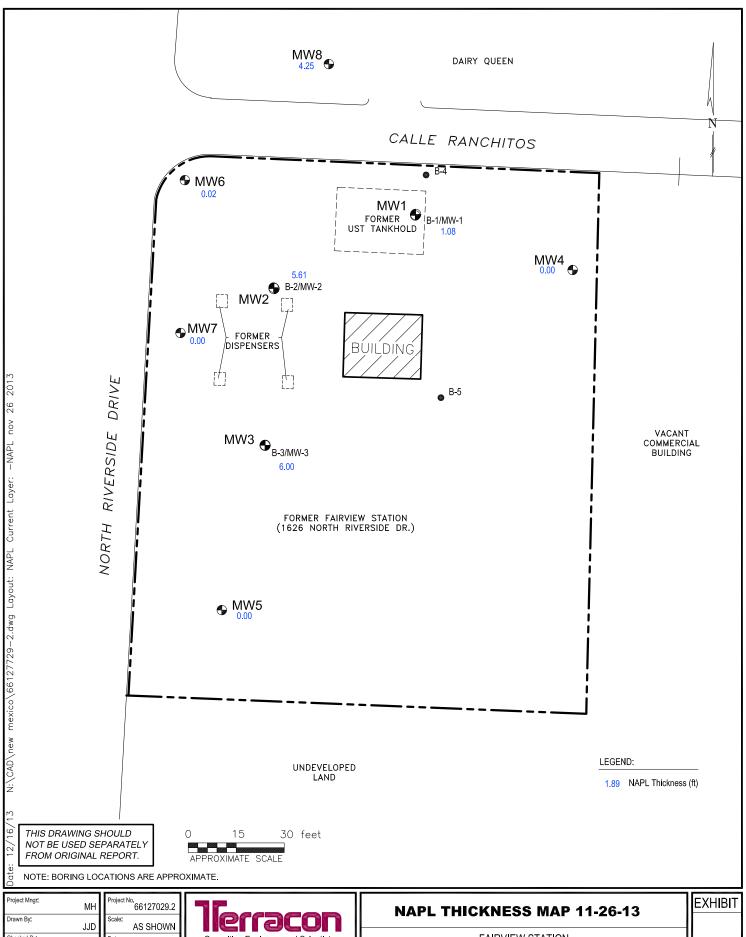


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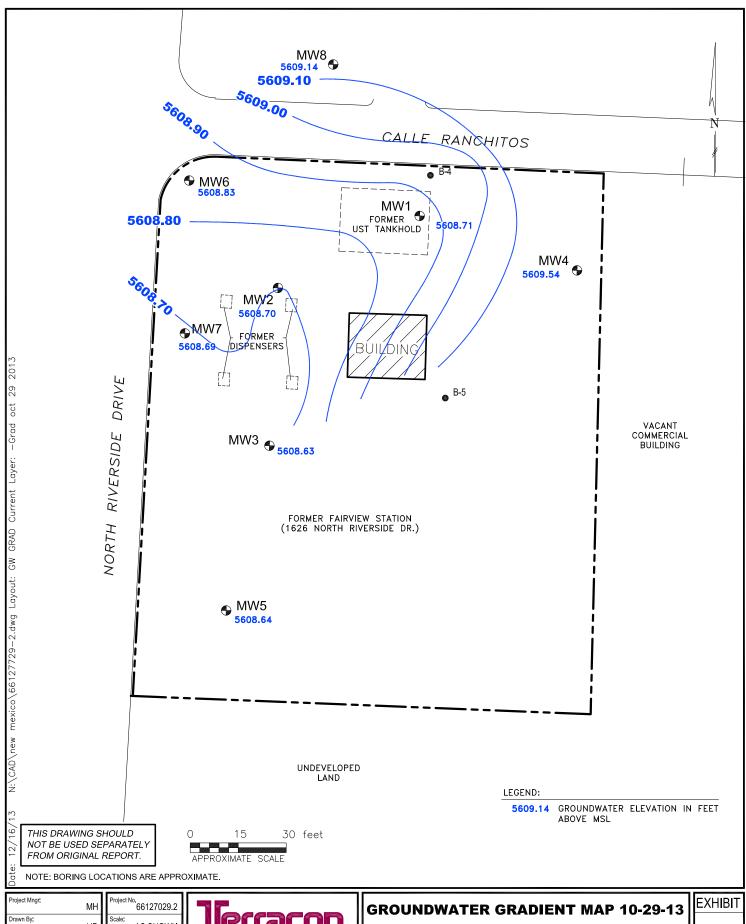


Project Mingr.	МН
Drawn By:	JJD
Checked By:	МН
Approved By:	МН

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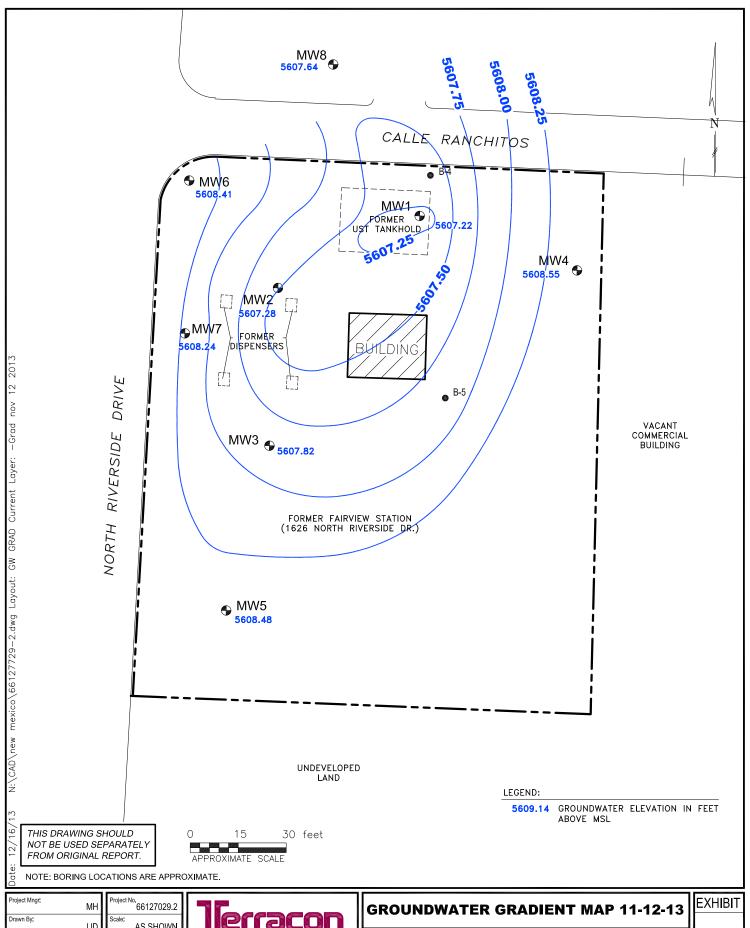


Project Mngr.	МН
Drawn By:	JJD
Checked By:	МН
Approved By:	MH

AS SHOWN Date: 12/16/13



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Project Mngr.	MH
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Checked By:	MH
Approved By:	MH

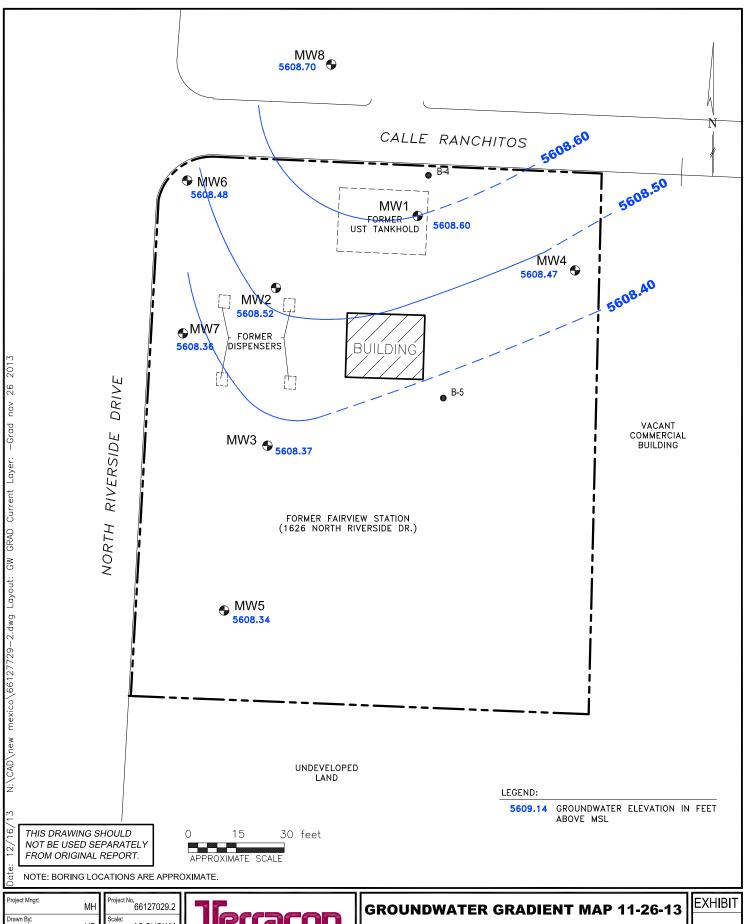
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