

# FTIR Summary Report

**TERRA AIR SERVICES**  
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Customer: Tosco SFR Monitoring Period Total Hours: 744.00  
 Location: South Fenceline From: 08/01/1997 00:00:01 Online %: 30.9  
 Address: 1380 San Pablo Avenue To: 08/31/1997 23:59:59 Offline %: 69.1  
 Rodeo, CA 94572-1299  
 Number of Valid Spectra Collected and Analyzed: 2670

Compound	Path - Average Conc. (ppm)			Detections			Alarms				Path - MDL (ppm)		
	Avg.*	Max*	Min*	Number	Confirmed	False Positive	High Level (ppm)	#	Low Level (ppm)	#	Avg Detect Limit	Max Detect Limit	Min Detect Limit
1,1,1 Trichloroethane	0.000	0.000	0.000	0	0	0	450	0	350	0	0.045	0.216	0.014
1,3 Butadiene	0.000	0.000	0.000	1	0	1	50	0	10	0	0.066	0.264	0.023
2,2,4-Trimethylpentane	0.000	0.000	0.000	0	0	0	0	0	0	0	6.266	18.266	1.325
Acetaldehyde	0.000	0.000	0.000	0	0	0	150	0	25	0	0.971	3.474	0.225
Ammonia	0.018	0.022	0.010	25	25	0	100	0	3	0	0.023	0.090	0.009
Butane	0.000	0.000	0.000	0	0	0	1000	0	800	0	0.883	2.061	0.192
Carbon monoxide	0.269	0.361	0.228	19	19	0	400	0	20	0	4.075	11.882	0.172
Carbonyl sulfide	0.000	0.000	0.000	0	0	0	10	0	1	0	0.117	0.164	0.003
Chlorodifluoromethane	0.000	0.000	0.000	0	0	0	100	0	10	0	0.020	0.070	0.005
Diethanol amine	0.000	0.000	0.000	0	0	0	6	0	0.46	0	0.095	0.278	0.035
Dimethyl sulfide	0.000	0.000	0.000	2	0	2	500	0	50	0	0.545	2.153	0.200
Ethane	0.000	0.000	0.000	0	0	0	3000	0	1000	0	0.426	0.851	0.086
Ethyl benzene	0.000	0.000	0.000	0	0	0	125	0	100	0	0.421	0.735	0.028
Ethylene	0.000	0.000	0.000	0	0	0	2700	0	1000	0	0.051	0.188	0.019
Formaldehyde	0.000	0.000	0.000	0	0	0	2	0	0.3	0	0.123	0.304	0.007
Furan	0.000	0.000	0.000	0	0	0	2300	0	230	0	7.221	16.912	1.915
Hydrogen chloride	0.000	0.000	0.000	3	0	3	20	0	1	0	0.183	0.468	0.016
Hydrogen Cyanide	0.000	0.000	0.000	0	0	0	3	0	0.3	0	0.151	0.638	0.038
Methane	1.664	2.813	1.349	391	391	0	5000	0	1000	0	2.026	4.572	1.349
Methyl mercaptan	0.000	0.000	0.000	0	0	0	10	0	0.005	0	3.485	7.544	0.678
Methyl tert-butyl ether	0.000	0.000	0.000	0	0	0	200	0	40	0	0.099	0.352	0.022
n-Hexane	0.000	0.000	0.000	0	0	0	75	0	50	0	1.354	2.909	0.283
n-Octane	0.000	0.000	0.000	0	0	0	375	0	75	0	0.755	1.719	0.155
Naphthalene	0.000	0.000	0.000	0	0	0	15	0	10	0	0.883	3.324	0.326

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	Avg.*	Max*	Min*	Number	Confirmed	False Positive	High Level (ppm)	#	Low Level (ppm)	#	Avg Detect Limit	Max Detect Limit	Min Detect Limit
Nickel carbonyl	0.000	0.000	0.000	0	0	0	0.16	0	0.09	0	0.106	0.141	0.002
Nitrous oxide***	0.484	0.575	0.281	2158	2158	0	NONE	N/A	NONE	N/A	0.612	0.976	0.281
Ozone**	0.077	0.112	0.044	43	43	0	NONE	N/A	NONE	N/A	0.070	0.279	0.023
Phenol	0.000	0.000	0.000	29	0	29	50	0	5	0	0.217	8.001	0.013
Phosgene	0.000	0.000	0.000	1	0	1	0.2	0	0.003	0	0.010	0.041	0.004
Propane	0.000	0.000	0.000	0	0	0	2500	0	1000	0	0.590	1.322	0.119

\* Zero (0.000) values indicate all concentrations less than the minimum detection limit (<MDL)

\*\* Included as an interfering compound

\*\*\* Included as an ambient quality assurance check compound