

Summary Report

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Report Date: August 18, 2016

Work Order: 16081207



Project Location: Lea County, NM
Project Name: EPNG Line 3031 Spike Test
Project Number: AFE 403828

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
426311	Rupture #7 Background	soil	2016-08-09	10:00	2016-08-11
426312	Rupture #7 Contaminated	soil	2016-08-09	10:00	2016-08-11
426314	Rupture #8 Background	soil	2016-08-11	09:30	2016-08-11
426315	Rupture #8 Contaminated	soil	2016-08-11	09:30	2016-08-11

Sample - Field Code	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
426311 - Rupture #7 Background	<50.0	<4.00
426312 - Rupture #7 Contaminated	<50.0	<4.00
426314 - Rupture #8 Background	<50.0	<4.00
426315 - Rupture #8 Contaminated	<50.0	<4.00

Sample: 426311 - Rupture #7 Background

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50
Bromochloromethane	Qr	<20.0	µg/Kg	20
Dichlorodifluoromethane	Qc	<20.0	µg/Kg	20
Chloromethane (methyl chloride)		<20.0	µg/Kg	20
Vinyl Chloride	Qr	<20.0	µg/Kg	20
Bromomethane (methyl bromide)		<100	µg/Kg	100
Chloroethane		<20.0	µg/Kg	20
Trichlorofluoromethane		<20.0	µg/Kg	20
Acetone	Qc	<200	µg/Kg	200
Iodomethane (methyl iodide)	Qr	<100	µg/Kg	100
Carbon Disulfide	Qr	<20.0	µg/Kg	20

continued ...

sample 426311 continued ...

Param	Flag	Result	Units	RL
Acrylonitrile	Qr	<20.0	µg/Kg	20
2-Butanone (MEK)	Qc,Qr	<100	µg/Kg	100
4-Methyl-2-pentanone (MIBK)		<100	µg/Kg	100
2-Hexanone	Qc	<100	µg/Kg	100
trans 1,4-Dichloro-2-butene		<200	µg/Kg	200
1,1-Dichloroethene	Qr	<20.0	µg/Kg	20
Methylene chloride	B,Qr	<100	µg/Kg	100
MTBE		<20.0	µg/Kg	20
trans-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
1,1-Dichloroethane	Qr	<20.0	µg/Kg	20
cis-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
2,2-Dichloropropane	Qr	<20.0	µg/Kg	20
1,2-Dichloroethane (EDC)		<20.0	µg/Kg	20
Chloroform		<20.0	µg/Kg	20
1,1,1-Trichloroethane	Qr	<20.0	µg/Kg	20
1,1-Dichloropropene	Qr	<20.0	µg/Kg	20
Benzene	Qr	<20.0	µg/Kg	20
Carbon Tetrachloride	Qr	<20.0	µg/Kg	20
1,2-Dichloropropane		<20.0	µg/Kg	20
Trichloroethene (TCE)	Qr	<20.0	µg/Kg	20
Dibromomethane (methylene bromide)	Qr	<20.0	µg/Kg	20
Bromodichloromethane	Qr	<20.0	µg/Kg	20
2-Chloroethyl vinyl ether		<20.0	µg/Kg	20
cis-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
trans-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
Toluene	Qr	<20.0	µg/Kg	20
1,1,2-Trichloroethane	Qr	<20.0	µg/Kg	20
1,3-Dichloropropane	Qr	<20.0	µg/Kg	20
Dibromochloromethane	Qr	<20.0	µg/Kg	20
1,2-Dibromoethane (EDB)	Qr	<20.0	µg/Kg	20
Tetrachloroethene (PCE)	Qr	<20.0	µg/Kg	20
Chlorobenzene	Qr	<20.0	µg/Kg	20
1,1,1,2-Tetrachloroethane	Qr	<20.0	µg/Kg	20
Ethylbenzene	Qr	<20.0	µg/Kg	20
m,p-Xylene	Qr	<20.0	µg/Kg	20
Bromoform	Qr	<20.0	µg/Kg	20
Styrene	Qr	<20.0	µg/Kg	20
o-Xylene	Qr	<20.0	µg/Kg	20
1,1,1,2,2-Tetrachloroethane		<20.0	µg/Kg	20
2-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2,3-Trichloropropane	Qr	<20.0	µg/Kg	20
Isopropylbenzene	Qr	<20.0	µg/Kg	20
Bromobenzene	Qr	<20.0	µg/Kg	20
n-Propylbenzene	Qr	<20.0	µg/Kg	20
1,3,5-Trimethylbenzene	Qr	<20.0	µg/Kg	20
tert-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2,4-Trimethylbenzene	Qr	<20.0	µg/Kg	20

continued ...

sample 426311 continued ...

Param	Flag	Result	Units	RL
1,4-Dichlorobenzene (para)	Qr	<20.0	µg/Kg	20
sec-Butylbenzene	Qr	<20.0	µg/Kg	20
1,3-Dichlorobenzene (meta)	Qr	<20.0	µg/Kg	20
p-Isopropyltoluene	Qr	<20.0	µg/Kg	20
4-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2-Dichlorobenzene (ortho)	Qr	<20.0	µg/Kg	20
n-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2-Dibromo-3-chloropropane	Qr	<100	µg/Kg	100
1,2,3-Trichlorobenzene	Qr	<100	µg/Kg	100
1,2,4-Trichlorobenzene	Qr	<100	µg/Kg	100
Naphthalene	Qr	<100	µg/Kg	100
Hexachlorobutadiene	Qr	<100	µg/Kg	100

Sample: 426312 - Rupture #7 Contaminated

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50
Bromochloromethane	Qr	<20.0	µg/Kg	20
Dichlorodifluoromethane	Qc	<20.0	µg/Kg	20
Chloromethane (methyl chloride)		<20.0	µg/Kg	20
Vinyl Chloride	Qr	<20.0	µg/Kg	20
Bromomethane (methyl bromide)		<100	µg/Kg	100
Chloroethane		<20.0	µg/Kg	20
Trichlorofluoromethane		<20.0	µg/Kg	20
Acetone	Qc	<200	µg/Kg	200
Iodomethane (methyl iodide)	Qr	<100	µg/Kg	100
Carbon Disulfide	Qr	<20.0	µg/Kg	20
Acrylonitrile	Qr	<20.0	µg/Kg	20
2-Butanone (MEK)	Qc, Qr	<100	µg/Kg	100
4-Methyl-2-pentanone (MIBK)		<100	µg/Kg	100
2-Hexanone	Qc	<100	µg/Kg	100
trans 1,4-Dichloro-2-butene		<200	µg/Kg	200
1,1-Dichloroethene	Qr	<20.0	µg/Kg	20
Methylene chloride	B, Qr	<100	µg/Kg	100
MTBE		<20.0	µg/Kg	20
trans-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
1,1-Dichloroethane	Qr	<20.0	µg/Kg	20
cis-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
2,2-Dichloropropane	Qr	<20.0	µg/Kg	20
1,2-Dichloroethane (EDC)		<20.0	µg/Kg	20
Chloroform		<20.0	µg/Kg	20
1,1,1-Trichloroethane	Qr	<20.0	µg/Kg	20
1,1-Dichloropropene	Qr	<20.0	µg/Kg	20
Benzene	Qr	<20.0	µg/Kg	20
Carbon Tetrachloride	Qr	<20.0	µg/Kg	20
1,2-Dichloropropane		<20.0	µg/Kg	20

continued ...

sample 426312 continued ...

Param	Flag	Result	Units	RL
Trichloroethene (TCE)	Qr	<20.0	µg/Kg	20
Dibromomethane (methylene bromide)	Qr	<20.0	µg/Kg	20
Bromodichloromethane	Qr	<20.0	µg/Kg	20
2-Chloroethyl vinyl ether		<20.0	µg/Kg	20
cis-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
trans-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
Toluene	Qr	<20.0	µg/Kg	20
1,1,2-Trichloroethane	Qr	<20.0	µg/Kg	20
1,3-Dichloropropane	Qr	<20.0	µg/Kg	20
Dibromochloromethane	Qr	<20.0	µg/Kg	20
1,2-Dibromoethane (EDB)	Qr	<20.0	µg/Kg	20
Tetrachloroethene (PCE)	Qr	<20.0	µg/Kg	20
Chlorobenzene	Qr	<20.0	µg/Kg	20
1,1,1,2-Tetrachloroethane	Qr	<20.0	µg/Kg	20
Ethylbenzene	Qr	<20.0	µg/Kg	20
m,p-Xylene	Qr	<20.0	µg/Kg	20
Bromoform	Qr	<20.0	µg/Kg	20
Styrene	Qr	<20.0	µg/Kg	20
o-Xylene	Qr	<20.0	µg/Kg	20
1,1,2,2-Tetrachloroethane		<20.0	µg/Kg	20
2-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2,3-Trichloropropane	Qr	<20.0	µg/Kg	20
Isopropylbenzene	Qr	<20.0	µg/Kg	20
Bromobenzene	Qr	<20.0	µg/Kg	20
n-Propylbenzene	Qr	<20.0	µg/Kg	20
1,3,5-Trimethylbenzene	Qr	<20.0	µg/Kg	20
tert-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2,4-Trimethylbenzene	Qr	<20.0	µg/Kg	20
1,4-Dichlorobenzene (para)	Qr	<20.0	µg/Kg	20
sec-Butylbenzene	Qr	<20.0	µg/Kg	20
1,3-Dichlorobenzene (meta)	Qr	<20.0	µg/Kg	20
p-Isopropyltoluene	Qr	<20.0	µg/Kg	20
4-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2-Dichlorobenzene (ortho)	Qr	<20.0	µg/Kg	20
n-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2-Dibromo-3-chloropropane	Qr	<100	µg/Kg	100
1,2,3-Trichlorobenzene	Qr	<100	µg/Kg	100
1,2,4-Trichlorobenzene	Qr	<100	µg/Kg	100
Naphthalene	Qr	<100	µg/Kg	100
Hexachlorobutadiene	Qr	<100	µg/Kg	100

Sample: 426314 - Rupture #8 Background

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50
Bromochloromethane	Qr	<20.0	µg/Kg	20

continued ...

sample 426314 continued ...

Param	Flag	Result	Units	RL
Dichlorodifluoromethane	Qc	<20.0	µg/Kg	20
Chloromethane (methyl chloride)		<20.0	µg/Kg	20
Vinyl Chloride	Qr	<20.0	µg/Kg	20
Bromomethane (methyl bromide)		<100	µg/Kg	100
Chloroethane		<20.0	µg/Kg	20
Trichlorofluoromethane		<20.0	µg/Kg	20
Acetone	Qc	<200	µg/Kg	200
Iodomethane (methyl iodide)	Qr	<100	µg/Kg	100
Carbon Disulfide	Qr	<20.0	µg/Kg	20
Acrylonitrile	Qr	<20.0	µg/Kg	20
2-Butanone (MEK)	Qc, Qr	<100	µg/Kg	100
4-Methyl-2-pentanone (MIBK)		<100	µg/Kg	100
2-Hexanone	Qc	<100	µg/Kg	100
trans 1,4-Dichloro-2-butene		<200	µg/Kg	200
1,1-Dichloroethene	Qr	<20.0	µg/Kg	20
Methylene chloride	B, Qr	<100	µg/Kg	100
MTBE		<20.0	µg/Kg	20
trans-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
1,1-Dichloroethane	Qr	<20.0	µg/Kg	20
cis-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
2,2-Dichloropropane	Qr	<20.0	µg/Kg	20
1,2-Dichloroethane (EDC)		<20.0	µg/Kg	20
Chloroform		<20.0	µg/Kg	20
1,1,1-Trichloroethane	Qr	<20.0	µg/Kg	20
1,1-Dichloropropene	Qr	<20.0	µg/Kg	20
Benzene	Qr	<20.0	µg/Kg	20
Carbon Tetrachloride	Qr	<20.0	µg/Kg	20
1,2-Dichloropropane		<20.0	µg/Kg	20
Trichloroethene (TCE)	Qr	<20.0	µg/Kg	20
Dibromomethane (methylene bromide)	Qr	<20.0	µg/Kg	20
Bromodichloromethane	Qr	<20.0	µg/Kg	20
2-Chloroethyl vinyl ether		<20.0	µg/Kg	20
cis-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
trans-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
Toluene	Qr	<20.0	µg/Kg	20
1,1,2-Trichloroethane	Qr	<20.0	µg/Kg	20
1,3-Dichloropropane	Qr	<20.0	µg/Kg	20
Dibromochloromethane	Qr	<20.0	µg/Kg	20
1,2-Dibromoethane (EDB)	Qr	<20.0	µg/Kg	20
Tetrachloroethene (PCE)	Qr	<20.0	µg/Kg	20
Chlorobenzene	Qr	<20.0	µg/Kg	20
1,1,1,2-Tetrachloroethane	Qr	<20.0	µg/Kg	20
Ethylbenzene	Qr	<20.0	µg/Kg	20
m,p-Xylene	Qr	<20.0	µg/Kg	20
Bromoform	Qr	<20.0	µg/Kg	20
Styrene	Qr	<20.0	µg/Kg	20
o-Xylene	Qr	<20.0	µg/Kg	20

continued ...

sample 426314 continued ...

Param	Flag	Result	Units	RL
1,1,2,2-Tetrachloroethane		<20.0	µg/Kg	20
2-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2,3-Trichloropropane	Qr	<20.0	µg/Kg	20
Isopropylbenzene	Qr	<20.0	µg/Kg	20
Bromobenzene	Qr	<20.0	µg/Kg	20
n-Propylbenzene	Qr	<20.0	µg/Kg	20
1,3,5-Trimethylbenzene	Qr	<20.0	µg/Kg	20
tert-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2,4-Trimethylbenzene	Qr	<20.0	µg/Kg	20
1,4-Dichlorobenzene (para)	Qr	<20.0	µg/Kg	20
sec-Butylbenzene	Qr	<20.0	µg/Kg	20
1,3-Dichlorobenzene (meta)	Qr	<20.0	µg/Kg	20
p-Isopropyltoluene	Qr	<20.0	µg/Kg	20
4-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2-Dichlorobenzene (ortho)	Qr	<20.0	µg/Kg	20
n-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2-Dibromo-3-chloropropane	Qr	<100	µg/Kg	100
1,2,3-Trichlorobenzene	Qr	<100	µg/Kg	100
1,2,4-Trichlorobenzene	Qr	<100	µg/Kg	100
Naphthalene	Qr	<100	µg/Kg	100
Hexachlorobutadiene	Qr	<100	µg/Kg	100

Sample: 426315 - Rupture #8 Contaminated

Param	Flag	Result	Units	RL
Chloride		<250	mg/Kg	50
Bromochloromethane	Qr	<20.0	µg/Kg	20
Dichlorodifluoromethane	Qc	<20.0	µg/Kg	20
Chloromethane (methyl chloride)		<20.0	µg/Kg	20
Vinyl Chloride	Qr	<20.0	µg/Kg	20
Bromomethane (methyl bromide)		<100	µg/Kg	100
Chloroethane		<20.0	µg/Kg	20
Trichlorofluoromethane		<20.0	µg/Kg	20
Acetone	Qc	<200	µg/Kg	200
Iodomethane (methyl iodide)	Qr	<100	µg/Kg	100
Carbon Disulfide	Qr	<20.0	µg/Kg	20
Acrylonitrile	Qr	<20.0	µg/Kg	20
2-Butanone (MEK)	Qc, Qr	<100	µg/Kg	100
4-Methyl-2-pentanone (MIBK)		<100	µg/Kg	100
2-Hexanone	Qc	<100	µg/Kg	100
trans 1,4-Dichloro-2-butene		<200	µg/Kg	200
1,1-Dichloroethene	Qr	<20.0	µg/Kg	20
Methylene chloride	B, Qr	<100	µg/Kg	100
MTBE		<20.0	µg/Kg	20
trans-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
1,1-Dichloroethane	Qr	<20.0	µg/Kg	20

continued ...

sample 426315 continued ...

Param	Flag	Result	Units	RL
cis-1,2-Dichloroethene	Qr	<20.0	µg/Kg	20
2,2-Dichloropropane	Qr	<20.0	µg/Kg	20
1,2-Dichloroethane (EDC)		<20.0	µg/Kg	20
Chloroform		<20.0	µg/Kg	20
1,1,1-Trichloroethane	Qr	<20.0	µg/Kg	20
1,1-Dichloropropene	Qr	<20.0	µg/Kg	20
Benzene	Qr	<20.0	µg/Kg	20
Carbon Tetrachloride	Qr	<20.0	µg/Kg	20
1,2-Dichloropropane		<20.0	µg/Kg	20
Trichloroethene (TCE)	Qr	<20.0	µg/Kg	20
Dibromomethane (methylene bromide)	Qr	<20.0	µg/Kg	20
Bromodichloromethane	Qr	<20.0	µg/Kg	20
2-Chloroethyl vinyl ether		<20.0	µg/Kg	20
cis-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
trans-1,3-Dichloropropene	Qr	<20.0	µg/Kg	20
Toluene	Qr	<20.0	µg/Kg	20
1,1,2-Trichloroethane	Qr	<20.0	µg/Kg	20
1,3-Dichloropropane	Qr	<20.0	µg/Kg	20
Dibromochloromethane	Qr	<20.0	µg/Kg	20
1,2-Dibromoethane (EDB)	Qr	<20.0	µg/Kg	20
Tetrachloroethene (PCE)	Qr	<20.0	µg/Kg	20
Chlorobenzene	Qr	<20.0	µg/Kg	20
1,1,1,2-Tetrachloroethane	Qr	<20.0	µg/Kg	20
Ethylbenzene	Qr	<20.0	µg/Kg	20
m,p-Xylene	Qr	<20.0	µg/Kg	20
Bromoform	Qr	<20.0	µg/Kg	20
Styrene	Qr	<20.0	µg/Kg	20
o-Xylene	Qr	<20.0	µg/Kg	20
1,1,1,2,2-Tetrachloroethane		<20.0	µg/Kg	20
2-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2,3-Trichloropropane	Qr	<20.0	µg/Kg	20
Isopropylbenzene	Qr	<20.0	µg/Kg	20
Bromobenzene	Qr	<20.0	µg/Kg	20
n-Propylbenzene	Qr	<20.0	µg/Kg	20
1,3,5-Trimethylbenzene	Qr	<20.0	µg/Kg	20
tert-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2,4-Trimethylbenzene	Qr	<20.0	µg/Kg	20
1,4-Dichlorobenzene (para)	Qr	<20.0	µg/Kg	20
sec-Butylbenzene	Qr	<20.0	µg/Kg	20
1,3-Dichlorobenzene (meta)	Qr	<20.0	µg/Kg	20
p-Isopropyltoluene	Qr	<20.0	µg/Kg	20
4-Chlorotoluene	Qr	<20.0	µg/Kg	20
1,2-Dichlorobenzene (ortho)	Qr	<20.0	µg/Kg	20
n-Butylbenzene	Qr	<20.0	µg/Kg	20
1,2-Dibromo-3-chloropropane	Qr	<100	µg/Kg	100
1,2,3-Trichlorobenzene	Qr	<100	µg/Kg	100
1,2,4-Trichlorobenzene	Qr	<100	µg/Kg	100

continued ...

sample 426315 continued ...

Param	Flag	Result	Units	RL
Naphthalene	Q _r	<100	μg/Kg	100
Hexachlorobutadiene	Q _r	<100	μg/Kg	100