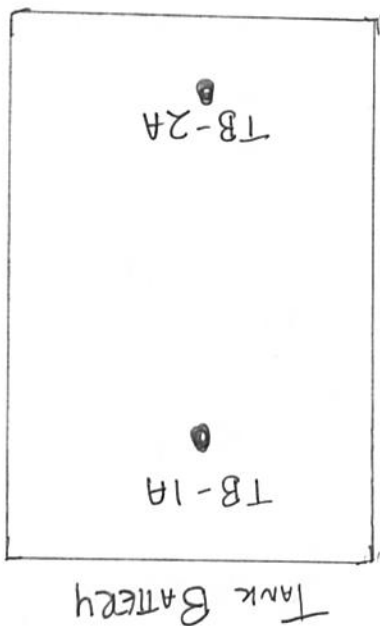




TB-1A - Tank Battery Floor (North)  
TB-2A - Tank Battery Floor (South)



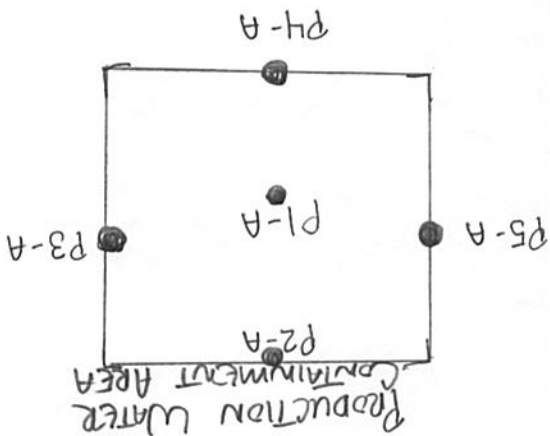
Tank Battery

T1-A - TREATER Containment Floor



TREATER

P1-A - Pit Floor  
P2-A - North Wall  
P3-A - East Wall  
P4-A - South Wall  
P5-A - West Wall



Production Water Containment Area

(Not to Scale)

Lease: STROMSØE #1

SECOND SAMPLES - AFTER EXCAVATION  
CONTAMINATED SOIL & HAULING TO  
DISPOSAL (5/8/2020)

# WELD LABORATORIES, INC.

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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4A  
Sample: P1-A

Project: Stromsoe-1  
Location: Pit Floor

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	83.8
TVH (GRO)	U	µg/kg - ppb	98.4
Benzene	U	µg/kg - ppb	98.4
Toluene	U	µg/kg - ppb	98.4
Ethyl-benzene	U	µg/kg - ppb	98.4
m,p-Xylene	U	µg/kg - ppb	98.4
o-Xylene	U	µg/kg - ppb	98.4
Sat. Paste pH	8.0	SI	NA
Sat. Paste EC	0.3	mS/cm	NA
Sat. Paste Saturation%	27.0	%	NA
Sat. Paste TDS	223	mg/L	NA
Sat. Paste SAR	1.9	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
\_\_\_\_\_  
Project Manager

5-22-20  
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Date

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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4B  
Sample: P2-A

Project: Stromsoe-1  
Location: North Wall

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	76.4
TVH (GRO)	U	µg/kg - ppb	94.5
Benzene	U	µg/kg - ppb	94.5
Toluene	U	µg/kg - ppb	94.5
Ethyl-benzene	U	µg/kg - ppb	94.5
m,p-Xylene	U	µg/kg - ppb	94.5
o-Xylene	U	µg/kg - ppb	94.5
Sat. Paste pH	7.8	SI	NA
Sat. Paste EC	0.7	mS/cm	NA
Sat. Paste Saturation%	25.4	%	NA
Sat. Paste TDS	461	mg/L	NA
Sat. Paste SAR	1.1	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
Project Manager

5-22-20  
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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4C  
Sample: P3-A

Project: Stromsoe-1  
Location: East Wall

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	84.9
TVH (GRO)	1.6	µg/kg - ppb	94.4
Benzene	U	µg/kg - ppb	94.4
Toluene	1.0	µg/kg - ppb	94.4
Ethyl-benzene	U	µg/kg - ppb	94.4
m,p-Xylene	U	µg/kg - ppb	94.4
o-Xylene	U	µg/kg - ppb	94.4
Sat. Paste pH	7.9	SI	NA
Sat. Paste EC	0.2	mS/cm	NA
Sat. Paste Saturation%	25.1	%	NA
Sat. Paste TDS	117	mg/L	NA
Sat. Paste SAR	1.0	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
\_\_\_\_\_  
Project Manager

5-22-20  
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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4D  
Sample: P4-A

Project: Stromsoe-1  
Location: South Wall

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	90.0
TVH (GRO)	U	µg/kg - ppb	102.5
Benzene	U	µg/kg - ppb	102.5
Toluene	U	µg/kg - ppb	102.5
Ethyl-benzene	U	µg/kg - ppb	102.5
m,p-Xylene	U	µg/kg - ppb	102.5
o-Xylene	U	µg/kg - ppb	102.5
Sat. Paste pH	7.9	SI	NA
Sat. Paste EC	0.3	mS/cm	NA
Sat. Paste Saturation%	26.4	%	NA
Sat. Paste TDS	204	mg/L	NA
Sat. Paste SAR	1.5	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
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5-22-20  
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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4E  
Sample: P5-A

Project: Stromsoe-1  
Location: West Wall

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	85.8
TVH (GRO)	1.1	µg/kg - ppb	106.6
Benzene	U	µg/kg - ppb	106.6
Toluene	1.1	µg/kg - ppb	106.6
Ethyl-benzene	U	µg/kg - ppb	106.6
m,p-Xylene	U	µg/kg - ppb	106.6
o-Xylene	U	µg/kg - ppb	106.6
Sat. Paste pH	7.7	SI	NA
Sat. Paste EC	0.6	mS/cm	NA
Sat. Paste Saturation%	26.6	%	NA
Sat. Paste TDS	397	mg/L	NA
Sat. Paste SAR	1.1	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
\_\_\_\_\_  
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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4F  
Sample: TB-1A


Project: Stromsoe-1  
Location: Tank Batt. North

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	80	mg/kg - ppm	72.7
TEH (DRO)	32.7	mg/kg - ppm	84.1
TVH (GRO)	0.9	µg/kg - ppb	118.9
Benzene	U	µg/kg - ppb	118.9
Toluene	0.9	µg/kg - ppb	118.9
Ethyl-benzene	U	µg/kg - ppb	118.9
m,p-Xylene	U	µg/kg - ppb	118.9
o-Xylene	U	µg/kg - ppb	118.9
Sat. Paste pH	7.7	SI	NA
Sat. Paste EC	0.3	mS/cm	NA
Sat. Paste Saturation%	19.5	%	NA
Sat. Paste TDS	200	mg/L	NA
Sat. Paste SAR	0.9	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
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Project Manager

5-24-20  
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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4G  
Sample: TB-2A

Project: Stromsoe-1  
Location: Tank Batt. South

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	77.5
TVH (GRO)	1.4	µg/kg - ppb	108.0
Benzene	U	µg/kg - ppb	108.0
Toluene	U	µg/kg - ppb	108.0
Ethyl-benzene	U	µg/kg - ppb	108.0
m,p-Xylene	U	µg/kg - ppb	108.0
o-Xylene	U	µg/kg - ppb	108.0
Sat. Paste pH	7.8	SI	NA
Sat. Paste EC	0.3	mS/cm	NA
Sat. Paste Saturation%	26.4	%	NA
Sat. Paste TDS	222	mg/L	NA
Sat. Paste SAR	1.3	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)

DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics

TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)

TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)

VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)

Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)

Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"

U = Compound analyzed but not detected, NA = Not Applicable or Not Analyzed

  
\_\_\_\_\_  
Project Manager

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May 22, 2020

E3 Solutions  
24501 Rd T.  
Brush, CO 80723

Laboratory No.: E20129-4H  
Sample: T1-A Treater

Project: Stromsoe-1  
Location: Treater Containment

## Analyses performed according to methods in notes below

	Results	Units	Surr Recovery (%)
TRPH (ORO, Oil and Grease)	U	mg/kg - ppm	72.7
TEH (DRO)	U	mg/kg - ppm	82.2
TVH (GRO)	U	µg/kg - ppb	109.8
Benzene	U	µg/kg - ppb	109.8
Toluene	U	µg/kg - ppb	109.8
Ethyl-benzene	U	µg/kg - ppb	109.8
m,p-Xylene	U	µg/kg - ppb	109.8
o-Xylene	U	µg/kg - ppb	109.8
Sat. Paste pH	7.8	SI	NA
Sat. Paste EC	0.3	mS/cm	NA
Sat. Paste Saturation%	23.2	%	NA
Sat. Paste TDS	199	mg/L	NA
Sat. Paste SAR	0.4	--	NA

## Notes:

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA 1664 or SM5520F Soxhlet extracted SGT-HEM)  
DRO = Diesel Range Organics, GRO = Gas Range Organics, ORO = Oil Range Organics  
TVH = Total Volatile Hydrocarbons (C6-C10 EPA 8015, EPA 5030/5035 purge and trap)  
TEH = Total Extractable Hydrocarbons (Diesel #2 C11-C28, EPA Method 8015 solvent extraction)  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (EPA 8015, EPA 5030/5035 purge and trap)  
VOC = Volatile Organic Compounds (EPA 8260B, EPA 5030/5035 purge and trap)  
Soils always run as received but reported on a dry weight basis (mg/kg-dry-wt)  
Saturated Paste methods: Gavlak et al. "Soil, Plant, and Water reference methods for the western region"  
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