

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: <u>Burlington Resources</u> Telephone: <u>(505) 326-9841</u> e-mail address: <u>Louis E Hasely@conocophillips.com</u>		
Address: <u>3401 East 30th Street, Farmington, New Mexico, 87402</u>		
Facility or well name: <u>Turner Hughes # 13A</u> API #: <u>3004526372</u> U/L or Qtr/Qtr <u>E</u> Sec <u>11</u> T <u>27N</u> R <u>09W</u>		
County: <u>San Juan</u> Latitude <u>36.592373</u> Longitude <u>-107.76396</u> NAD: 1927 ☒ 1983 ☐		
Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐		
Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ bbl	Below-grade tank Volume: <u>40</u> bbl Type of fluid: <u>Produced water and incidental oil</u> Construction material: Fiberglass Double-walled, with leak detection? Yes ☐ If not, explain why not. <u>No Tank in place prior to Rule 50</u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	(0 points) 0
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes	(20 points)
	No	(0 points) 0
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points) 20
Ranking Score (Total Points)		20

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Envirotech Landfarm # 2. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:
Soil passed 418.1 standard of 100ppm for TPH and 100 ppm OVM standard at excavation dimensions of 25 feet X 18 feet X 10 feet deep
RCVD JUL 26 '07 OIL CONS. DIV. DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 7/24/07

Printed Name/Title: Mr. Ed Hasely, Environmental Advisor

Signature: [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval:

Printed Name/Title: Deputy Oil & Gas Inspector,
District #3

Signature: [Signature]

AUG 30 2007
Date:

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

CLIENT:

LOCATION NO:

C.D.C. NO:

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: _____ of _____

LOCATION: NAME. TURNER HUGHES WELL #. 13A PIT.

DATE STARTED 06/19/67

DATE FINISHED 6/20/07

QUAD/UNIT: E SEC: 11 TWP: 27 RNG: 9 PM: N44PM CNTY: SS ST: NH

ENVIRONMENTAL
SPECIALIST, ENH

QTR/FOOTAGE: 11610' FNL 810' FNL CONTRACTOR SPERRA

EXCAVATION APPROX 25 FT. x 18 FT. x 10 FT. DEEP CUBIC YARDAGE: 162

DISPOSAL FACILITY: Envirotech LF #2 REMEDIATION METHOD:

LAND USE: _____ LEASE: 30-045-26372 FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 67 FT. 30° FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <200

NMOCB RANKING SCORE: 20 NMOCB TPH CLOSURE STD: 100 PPM

CHECK ONE :

SOIL AND EXCAVATION DESCRIPTION:

____ PIT ABANDONED

X STEEL TANK INSTALLED

SOIL PASSED AT 25' x 18' x 10' DEEP

FIELD 418.1 CALCULATIONS

TIME	SAMPLE ID	LAB No	WEIGHT (g)	mL FREON	DILUTION	READING	CALC ppm
	200 STD					187	
245p	3' BELOW BBT	1	5	20	4	282	1128

SCALE

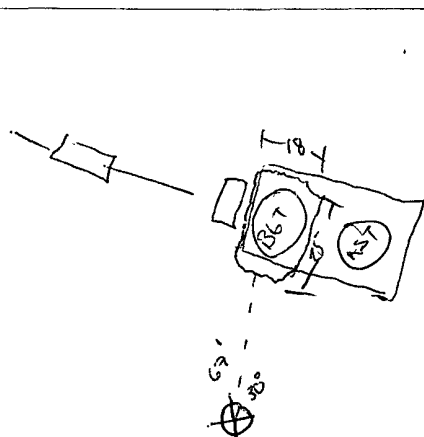
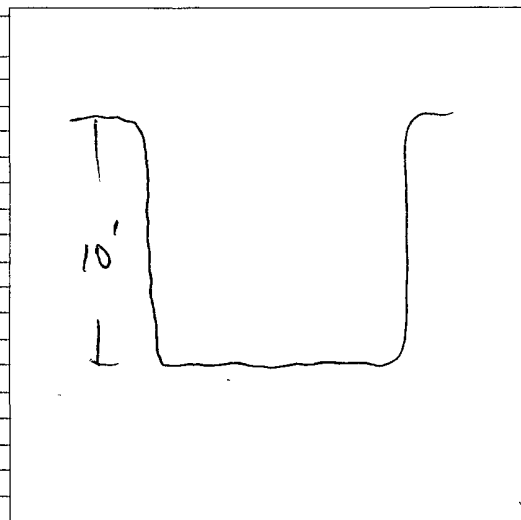


0 FT

PIT PERIMETER

OVM RESULTS

PIT PROFILE

[illegible]

TRAVEL NOTES.

CALLOUT. _____ ONSITE. _____

300 300

107.0458.9

36.592373

-107,76396

40 BBLS

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	1	Date Reported:	7/5/2007
Sample ID:	Discrete, 3' below BGT	Date Sampled:	6/19/2007
Sample Matrix:	Soil	Date Analyzed:	6/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

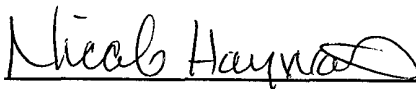
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,130	5.0

ND = Parameter not detected at the stated detection limit.

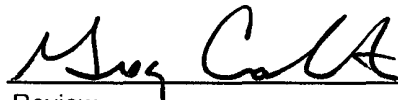
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

Instrument callibrated to 200 ppm standard. Zeroed before each sample


Analyst

Nicole Hayworth
Printed


Review

Greg Crabtree
Printed

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 19-Jun-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	187
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Nicole Hayworth
Analyst

07/05/07
Date

Nicole Hayworth
Print Name

Greg Crabtree
Review

7/9/07
Date

Greg Crabtree
Print Name

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	2	Date Reported:	7/5/2007
Sample ID:	Discrete, 9' BGS	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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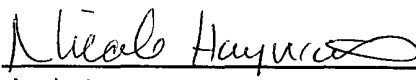
Total Petroleum Hydrocarbons	132	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

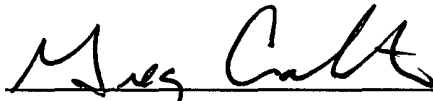
Instrument callibrated to 200 ppm standard. Zeroed before each sample



Analyst

Nicole Hayworth

Printed



Review

Greg Crabtree

Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	3	Date Reported:	7/5/2007
Sample ID:	Discrete, North Wall	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	984	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

Instrument callibrated to 200 ppm standard. Zeroed before each sample



Analyst

Nicole Hayworth

Printed



Review

Greg Crabtree

Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	4	Date Reported:	7/5/2007
Sample ID:	Discrete, South Wall	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

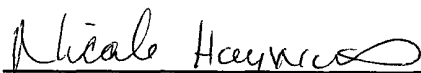
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	760	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

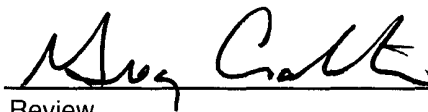
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Nicole Hayworth

Printed



Review

Greg Crabtree

Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	5	Date Reported:	7/5/2007
Sample ID:	Discrete, East Wall	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

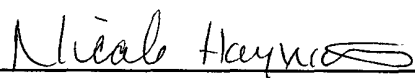
Total Petroleum Hydrocarbons	20	5.0
------------------------------	----	-----

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

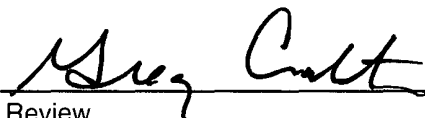
Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Nicole Hayworth

Printed



Review

Greg Crabtree

Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	6	Date Reported:	7/5/2007
Sample ID:	Discrete, West Wall	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

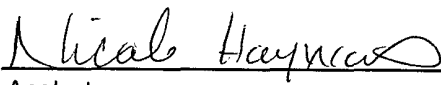
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	184	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Nicole Hayworth

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Review

Greg Crabtree

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 20-Jun-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	200
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Nicole Hayworth
Analyst

07/05/07
Date

Nicole Hayworth
Print Name

Greg Crabtree
Review

7/9/07
Date

Greg Crabtree
Print Name

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Burlington	Project #:	92115-121-060
Sample No.:	7	Date Reported:	7/5/2007
Sample ID:	Discrete, West Wall 2	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

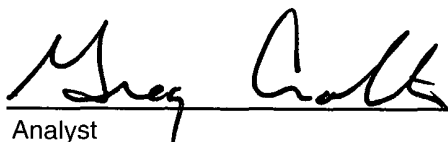
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	32	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

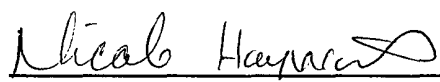
Instrument callibrated to 200 ppm standard. Zeroed before each sample



Analyst

Greg Crabtree

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Review

Nicole Hayworth

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	8	Date Reported:	7/5/2007
Sample ID:	Discrete, North Wall 2	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

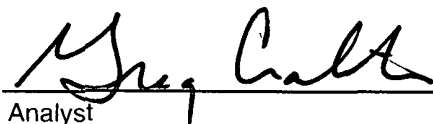
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	32	5.0

ND = Parameter not detected at the stated detection limit.

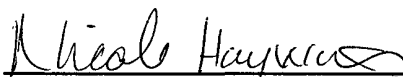
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Greg Crabtree
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Review

Nicole Hayworth
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	9	Date Reported:	7/5/2007
Sample ID:	Discrete, South Wall 2	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

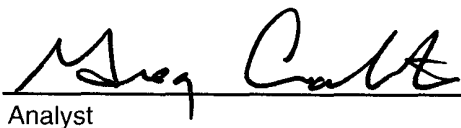
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	100	5.0

ND = Parameter not detected at the stated detection limit.

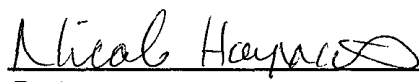
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Greg Crabtree
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Review

Nicole Hayworth
Printed

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Burlington	Project #:	92115-121-060
Sample No.:	10	Date Reported:	7/5/2007
Sample ID:	Discrete, 10' BGS	Date Sampled:	6/20/2007
Sample Matrix:	Soil	Date Analyzed:	6/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

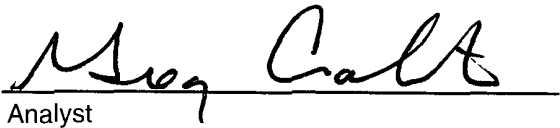
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	92	5.0

ND = Parameter not detected at the stated detection limit.

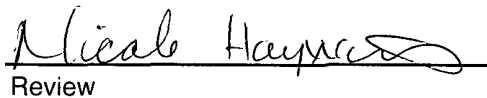
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Turner Hughes # 13A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Greg Crabtree
Printed

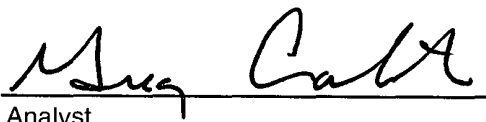

Review

Nicole Hayworth
Printed

Cal. Date: 20-Jun-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	197
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

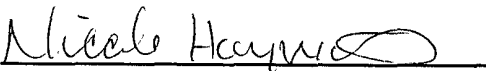


Analyst

2/9/07
Date

Greg Crabtree

Print Name



Review

07/05/07
Date

Nicole Hayworth

Print Name

Client:	ENVIROTECH INC ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	Location No:
		C.O.C. No:

FIELD REPORT: NORM TESTING VERIFICATION		PAGE NO: _____ OF _____
LOCATION: NAME: <u>TURNER HUGHES</u> WELL #: <u>13 A</u>		DATE STARTED: <u>06/19/07</u>
QUAD/UNIT: SEC: <u>11</u> TWP: <u>27</u> RNG: <u>9</u> PM: <u>UNM</u> CNTY: <u>SS</u> ST: <u>NM</u>	DATE FINISHED:	
QTR/FOOTAGE: <u>1610' FILL 810' FILL</u> CONTRACTOR: <u>SEEDIN</u>	ENVIRONMENTAL SPECIALIST: <u>N. HAYWORTH</u>	

BACKGROUND READING 0.4

ALLOWABLE CONCENTRATION (1.5 TIMES BACKGROUND) 0.6

TIME	SAMPLE I.D.	CONCENTRATION	UNITS
1015	FIBERGLASS BGT	0.6	MR/HR
1018	METAL PIPES	0.4	MR/HR
1020	METAL FENCE MATERIAL	0.4	MR/HR

NOTES:

COMMENTS:

<u>Nicole Hayworth</u> Analyst Signature <u>06/20/07</u> Date <u>NICOLE HAYWORTH</u> Printed Name	Conversion Factors 1 Rem = <table border="1"> <tr><td>Roentgen:</td><td>0.0838</td></tr> <tr><td>Rem:</td><td>1</td></tr> <tr><td>Sievert:</td><td>0.01</td></tr> <tr><td>Coulomb/kilogram:</td><td>2.16E-05</td></tr> <tr><td>Microcoulomb/kilogram:</td><td>21.6204</td></tr> <tr><td>Millicoulomb/kilogram:</td><td>0.02162</td></tr> <tr><td>Rep:</td><td>0.0838</td></tr> <tr><td>Parker:</td><td>0.0838</td></tr> </table>	Roentgen:	0.0838	Rem:	1	Sievert:	0.01	Coulomb/kilogram:	2.16E-05	Microcoulomb/kilogram:	21.6204	Millicoulomb/kilogram:	0.02162	Rep:	0.0838	Parker:	0.0838
Roentgen:	0.0838																
Rem:	1																
Sievert:	0.01																
Coulomb/kilogram:	2.16E-05																
Microcoulomb/kilogram:	21.6204																
Millicoulomb/kilogram:	0.02162																
Rep:	0.0838																
Parker:	0.0838																