

## Gate 2 Carbon Calculator

### Introduction

- This tool calculates the carbon emissions in the construction of an asset (embodied carbon emissions) and the emissions associated with annual operation.
- The input data required is based on information available at Gate 2 such as capacity, e.g. 10MI/d Activated Sludge plant.
- Carbon emissions are calculated from carbon-curves, derived from a best fit line through an existing data set of emissions and capacity.
- The Net Present Costs (NPCs) are derived from emissions embodied in the construction of the asset and operational emissions over a 40 year period, with a 3.5% discount rate.
- The NPCs are calculated according to the latest Defra guidelines with the Shadow Price of Carbon based on 2009 prices (£27.60 rising by 2% each year).

### User Guide

- The user should enter quantities in the light blue cells in columns D~J.
- Compulsory input requirements are specific to individual Design Manual Categories (DMCs) and may include:
  - Capacity (m<sup>3</sup> or p.e.);
  - Number of items;
  - Dosed flow (l/hr);
  - Pumping station power (kW) or flow (MI/d);
  - Pipe diameter (mm), length (m), depth to invert (m) and location (field or highway); and
  - Tonnes of treated dry solids (TTDS).
- Annual Electricity Consumption is an optional input for some DMCs. When the major input has been entered, if a value for electricity appears in the Annual Electricity Consumption input cell, a default electricity usage has been calculated by the tool. This electricity usage is used in the calculation of operational emissions. If the user knows the electricity usage for the item, the default electricity can be overwritten and the tool will use this new electricity usage for operational emissions. Those items with no default electricity input require compulsory input of electricity usage for calculation of operational emissions.
- The 'Ancillary Works' category is a generic additional item to allow the user to make an allowance for construction of items that are not included in the principal DMC.
- Holding the mouse over column C will reveal a comment containing a description of the items included within each DMC. More detailed descriptions of the items included or excluded in a DMC are provided in the individual tabs for each DMC.
- Carbon has been used throughout this tool to represent carbon dioxide equivalent.
- The carbon curves are presented for information only and do not allow user input. They will be updated by the administrator when additional data is available.
- If more than one instance of a DMC is required (e.g. for multiple diameters of water mains) the model should be run with the different capacities and the results recorded in the Record Sheet by clicking the "copy" button in the Design Manual Input Sheet.
- A new copy of the Carbon Tool should be used for each project.

### Process Emissions

- The operational emissions calculated by this tool are typically in addition to the operational emissions reported annually in the June returns.
- The operational emissions for a number of additional treatment processes are taken from the UKWIR 08/WW/20/3 report and include direct emissions from operation of the process, indirect emissions from electricity use and chemical dosing and emissions associated with sludge disposal. These additional processes are:
  - activated carbon;
  - biofilters;
  - phosphorous removal;
  - activated sludge;
  - sludge digestion; and
  - tertiary treatment
- In all other treatment processes, direct emissions, emissions embodied in the production of chemicals and emissions as a result of additional sludge are excluded.
- The reduction in NO<sub>2</sub> emissions downstream of an effluent discharge point that may result from improved levels of treatment are not included.

### Related Documents:

Severn Trent Water Design Manual  
 UKWIR report 08/WW/20/3 'Water Framework Directive: Sustainable Treatment Solutions for Achieving Good Ecological Status'  
 Carbon Accounting PR09 Phase 1 report

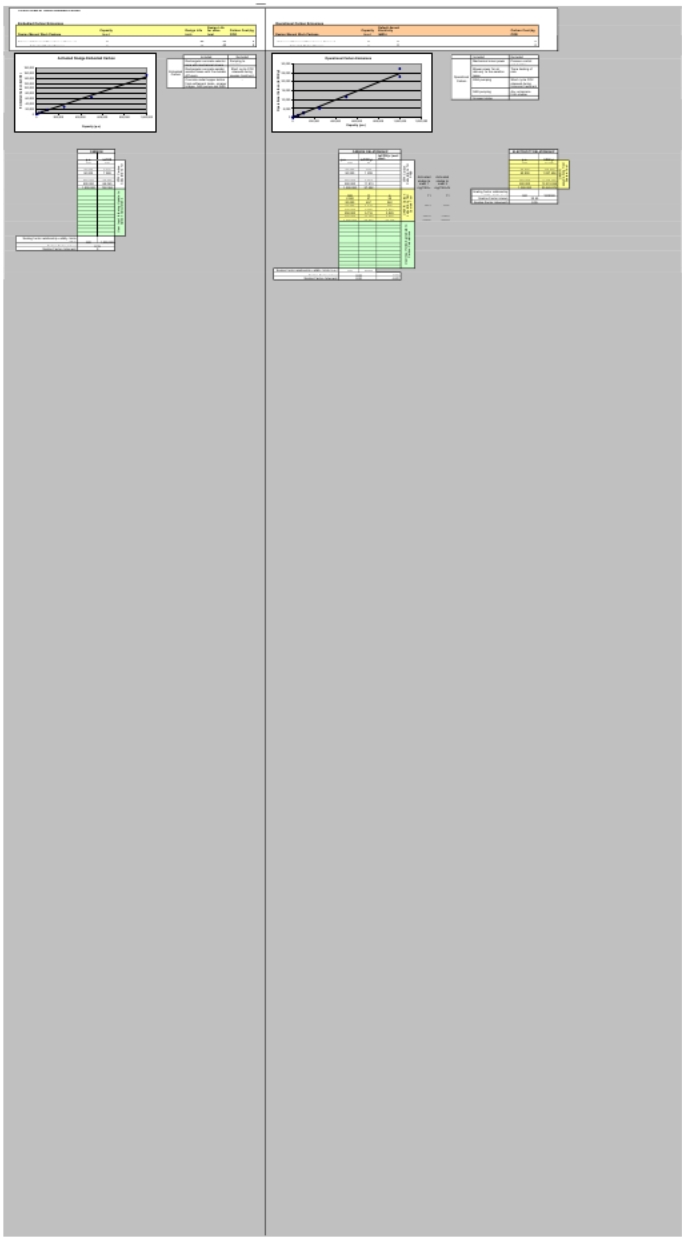
## Version Control

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Severn Trent Water										GATE 2 CARBON CALCULATOR			
USER INSTRUCTIONS:													
Enter quantities for required Design Manual Categories in the pale blue cells in this sheet in columns D to J. Some contain drop-down lists. Annual Electricity Consumption must be entered if a default ( <i>ITALICS</i> ) is not available. The default electricity consumption can be overwritten if there is more information. The Carbon Emissions and Net Present Cost are displayed in columns L to N. The Design Manual Category must be copied to the Record Sheet by clicking the button in column O to record the calculations.													
	Design Manual Category		User Input		Proposed Year of Construction	Embodied CO <sub>2eq</sub> (kgCO <sub>2eq</sub> )	Operational CO <sub>2eq</sub> (kgCO <sub>2eq</sub> /yr)	Net Present Cost of Carbon					
Water Resources and Treatment	Boreholes		No. of boreholes	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Service Reservoirs & Water Retaining Structures		Capacity (m <sup>3</sup> )		2009	0	-	£0					
	Arsenic Removal		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Fluoridation		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	pH Correction		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Clarification		Capacity (Ml/d)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Filtration		Flow (Ml/d)	Annual Electricity Consumption (kWh)	2009	0	0	£0					
	Activated Carbon - Removal of Endocrine Disruptors (Full flow)		Flow (Ml/d)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Activated Carbon - Removal of Pesticides (Full flow)		Flow (Ml/d)	Annual Electricity Consumption (kWh)	2012	1,278,563	4,990,167	£3,829,199					
	Activated Carbon - Removal of Zinc (Full flow)		Flow (Ml/d)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Iron & Manganese Treatment		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Nitrate Treatment		Flow to Treatment (m <sup>3</sup> /hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
Water Transfer and Distribution	Disinfection		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Stabilisation & Conditioning		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Distribution Mains & Service Pipes ...contd		Length (m)	Diameter (mm)	2012	0	-	£0					
	Pumping Stations		Pipe Location	Depth to invert (m)									
Sewerage	Trunk Mains ...contd		Flow (Ml/d)	Annual Electricity Consumption (kWh)	2014	0	0	£0					
			Length (m)	Diameter (mm)	2009	0	-	£0					
			Pipe Location	Depth to invert (m)									
	Sewage Pumping Stations ...contd		Pump Power (kW)	Pipe Length (m)	3.5	Depth to invert (m)	2012	18,454,127	5,444,638	£4,628,626			
Sewerage	Sewer Rehabilitation ...contd		Pipe Diameter (mm)	Pipe Location	Annual Electricity Consumption (kWh)								
			Sewer Length (m)	Diameter (mm)	2012	0	-	£0					
			Pipe Location	Depth to invert (m)									
	Manholes		No.		2012	0	-	£0					
Sewage Treatment	Inlet Works		m <sup>3</sup> /d	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Primary Sedimentation		Capacity (m <sup>3</sup> )	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Bio Filters (Trickling Filters)		Capacity (p.e.)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Chemical Phosphorous Removal		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	176,323	282,258	£222,817					
	Activated Sludge Process		Capacity (p.e.)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Enhanced Biological Phosphorous Removal		Capacity (p.e.)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Sludge Digestion (new plant)		TTDS per annum	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Sludge Thickening - Centrifuge Dewatering		TTDS per annum	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Sludge Thickening - Sludge Press		No. of works	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Sludge Drying		TTDS per annum	Annual Natural Gas Consumption (kWh)	2012	0	0	£0					
	Sludge Mixing		Dosed Flow (l/hr)	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Tertiary Treatment		Capacity (Ml/d)	Annual Electricity Consumption (kWh)	2012	261,023	329,301	£257,355					
Small Sewage Treatment Works		Capacity (p.e.)	Annual Electricity Consumption (kWh)	2012	0	0	£0						
Access to Assets	Flooring		Floor area (m <sup>2</sup> )		2012	679,482	-	£17,951					
	Guarding of Equipment		No. of works		2012	0	-	£0					
	Lifting Equipment		No. of plants	Annual Electricity Consumption (kWh)	2012	7,812	0	£361					
Civil Engineering	Access Road		Road Length (m)		2012	244,461	-	£15,815					
	Outfall Structures		No. of structures		2012	1,223	-	£32					
	Tunnelling & Low Dig Techniques		Tunnel length (m)		2012	1,683,094	-	£44,466					
Other	Environmental and Landscape		No. of sites		2012	0	-	£0					
	Remote Asset Monitoring (Telemetry) Systems		No. of works	Annual Electricity Consumption (kWh)	2012	1,751	611,558	£465,220					
	Security and Fencing		No. of installations	Annual Electricity Consumption (kWh)	2012	0	0	£0					
	Site Investigation		No. of sites		2012	0	-	£0					
Renewable Energy	Ancillary Works		No. of works		2012	0	-	£0					
	CHP		TTDS per annum	Power generated per annum (kWh)	2012	0	0	£0					





<b>Aufgabenstellung</b>	
<b>Aufgabe 1: Lernauftrag</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>

<b>Aufgabe 2: Lernauftrag</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>

<b>Aufgabe 3: Lernauftrag</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
<b>Thema:</b>	<b>Thema:</b>
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Bioscience Carbon Emissions			
Net GHG		Design Code	Carbon Footprint
Bioscience Carbon Emissions		GHG	Carbon Footprint
Bioscience		GHG	Carbon Footprint

Category	Sub-category	Value
Category	Sub-category	Value
Category	Sub-category	Value

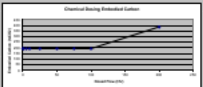
Open-Minded Carbon Emissions			
Net GHG		Design Code	Carbon Footprint
Open-Minded Carbon Emissions		GHG	Carbon Footprint
Open-Minded		GHG	Carbon Footprint

Category	Sub-category	Value
Category	Sub-category	Value
Category	Sub-category	Value



PERFORMANCE DATA

PERFORMANCE DATA			
Parameter	Unit	Test Method	Acceptance Criteria
1. Concrete Strength	MPa	ASTM C39	28.0
2. Concrete Density	kg/m³	ASTM C138	2400
3. Concrete Air Content	%	ASTM C231	5.0
4. Concrete Moisture	%	ASTM C157	4.0
5. Concrete Temperature	°C	ASTM C1064	20.0
6. Concrete Surface Condition		Visual	Good
7. Concrete Surface Finish		Visual	Smooth
8. Concrete Surface Texture		Visual	Uniform
9. Concrete Surface Color		Visual	Consistent
10. Concrete Surface Moisture	%	ASTM C157	4.0

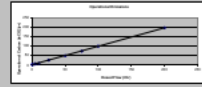


Concrete Strength	28.0 MPa
Concrete Density	2400 kg/m³
Concrete Air Content	5.0 %
Concrete Moisture	4.0 %
Concrete Temperature	20.0 °C
Concrete Surface Condition	Good
Concrete Surface Finish	Smooth
Concrete Surface Texture	Uniform
Concrete Surface Color	Consistent
Concrete Surface Moisture	4.0 %

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Note: All test results are subject to verification by the project engineer. All test results are subject to verification by the project engineer.

Overall Carbon Footprint

Design Life: 100 years

Carbon Footprint: 100,000 kg CO2e

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Carbon Footprint: 100,000 kg CO2e

Environmental and Safety		Safety and Health	
Environmental and Safety	Yes	Safety and Health	Yes
Environmental and Safety	No	Safety and Health	No

Environmental and Safety

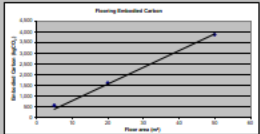
Safety and Health



Executive Summary

Architect Carbon Emissions		Design	Carbon Cost
Design Manual Work Package	2025	4th (4th)	By C2025
Plasma	5000	50	\$75,000

Operational Carbon Emissions		Carbon Cost
Design Manual Work Package		By C2025
No operational carbon associated with this item		



Architect	Operational	Carbon Cost
Plasma	50	\$75,000

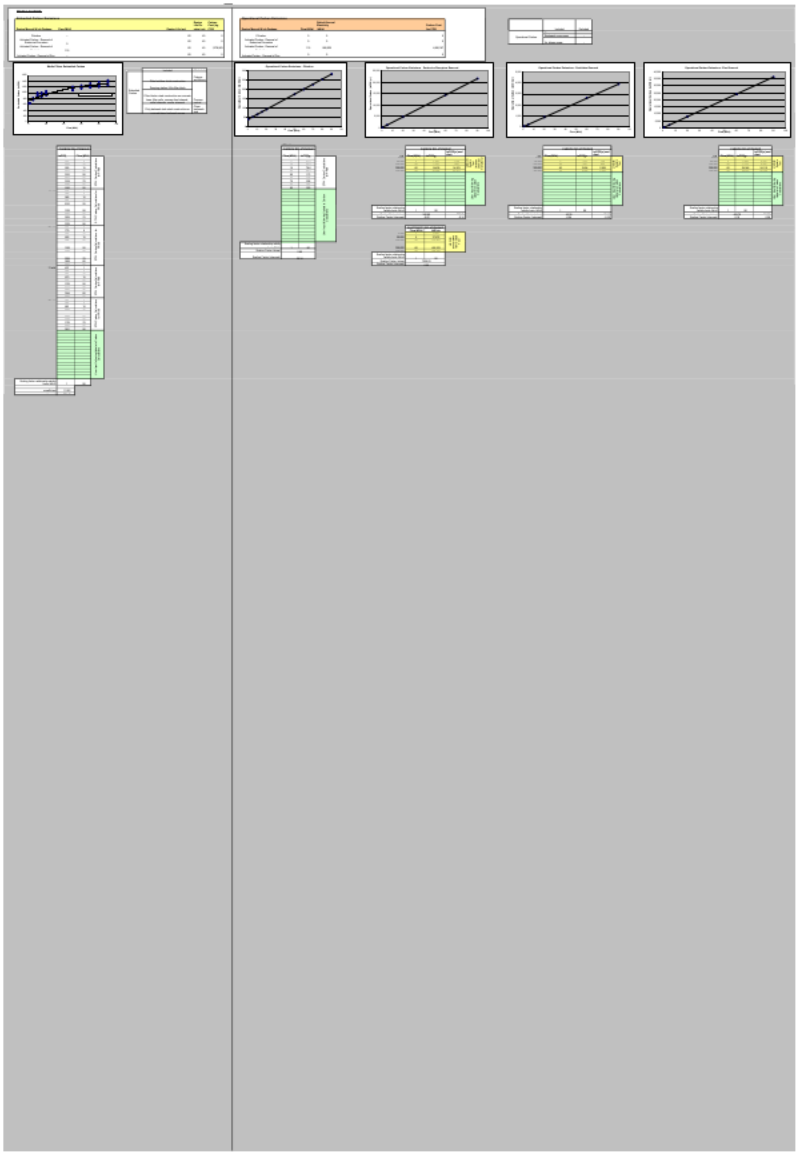




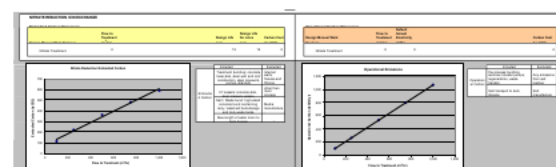


Table 1.1: Carbon Emissions			
Operational Carbon Emissions		Operational Carbon Emissions	
Category	Value	Category	Value
Electricity	100,000	Electricity	100,000
Gas	50,000	Gas	50,000
Heat	20,000	Heat	20,000
Transport	10,000	Transport	10,000
Other	5,000	Other	5,000
Total Operational Carbon Emissions		Total Operational Carbon Emissions	
185,000		185,000	

Table 1.2: Carbon Emissions			
Operational Carbon Emissions		Operational Carbon Emissions	
Category	Value	Category	Value
Electricity	100,000	Electricity	100,000
Gas	50,000	Gas	50,000
Heat	20,000	Heat	20,000
Transport	10,000	Transport	10,000
Other	5,000	Other	5,000
Total Operational Carbon Emissions		Total Operational Carbon Emissions	
185,000		185,000	



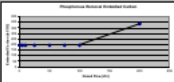
Production and Conversion				Operational Carbon Reductions			
Production Carbon Reductions		Conversion Carbon Reductions		Operational Carbon Reductions		Conversion Carbon Reductions	
Category	Value	Category	Value	Category	Value	Category	Value
Energy Used in Production	100	Energy Used in Conversion	100	Energy Used in Production	100	Energy Used in Conversion	100
Energy Used in Production	100	Energy Used in Conversion	100	Energy Used in Production	100	Energy Used in Conversion	100



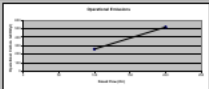
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**PROGRESS REPORT**

Project Name	Project No.	Project Date
Project Location	Project Status	Project Type
Project Manager	Project Sponsor	Project Budget



Project Name	Project No.
Project Location	Project Status
Project Manager	Project Sponsor



Project Name	Project No.
Project Location	Project Status
Project Manager	Project Sponsor

Project Name	Project No.
Project Location	Project Status
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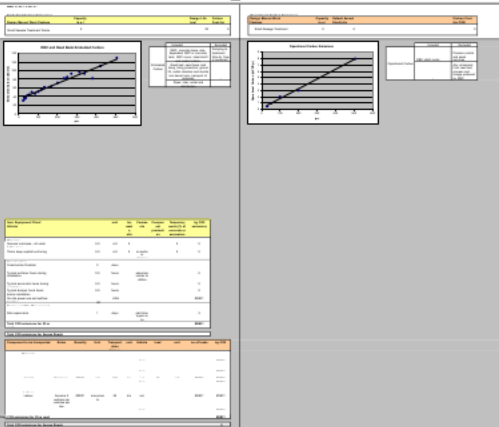
Project Name	Project No.
Project Location	Project Status
Project Manager	Project Sponsor

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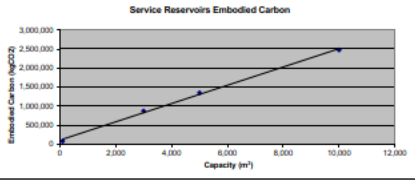






Service Reservoirs

Embodied Carbon Emissions		
Design Manual Work Package	Capacity (m³)	Design Life (yrs) (kg CO2)
Service Reservoirs & Water Retaining Structures	0	40



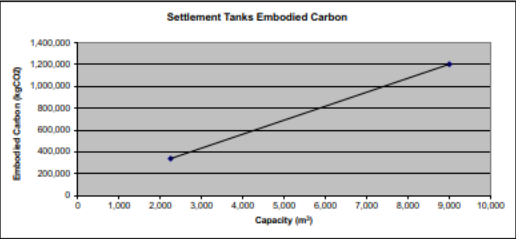
Embodied Carbon	Included	Excluded
	Reinforced Concrete Tank etc	Pumps, V&C
Consider fill and valves	-	-
Transport of materials to site	-	-

Operational Carbon Emissions	
Design Manual Work Package	Carbon Cost (kg CO2/yr)
No operational emissions associated with this item	

PRIMARY SETTLEMENT TANKS

Embodied Carbon Emissions			
Design Manual Work Package	Capacity (m³)	Design Life (yrs)	Carbon Cost (kg CO2)
Primary Sedimentation	0	40	0

Operational Carbon Emissions		
Design Manual Work Package	Annual Electricity Consumption (kWh)	Carbon Cost (kg CO2/yr)
Primary Sedimentation	0	0



Embodied Carbon	Included	Excluded
	RC Distribution Chamber	Connecting pipework etc
	PST	-
	Desludging Chambers	-
	Hopper	-

Operational Carbon	Included	Excluded
	All-inclusive power to run the process building services, pumps.	Fuel in travel for maintenance

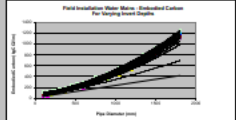
REVIEWS ONLY

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### Operational Carbon Emissions

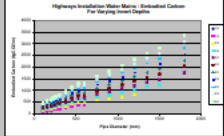
**Design Manual Start Package**

**Fig. 10. In situ**



	excellent	Good
Excluded Cathode	Pyrex, Alkaline, mercury cells, lead, alkaline and zinc aggravation	Materials other than silver chloride cell
	Lead aggravation Mercuric, silver and zinc	Cells Containing acids

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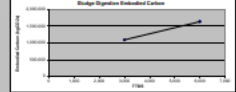
Translation Locations/ Event	Event Dates
Philadelphia, PA	10-11
San Francisco, CA	12-13
San Jose, CA	14-15
San Diego, CA	16-17
San Antonio, TX	18-19
San Jose, CA	20-21
San Francisco, CA	22-23





Design Manual Work Package	Thinking	Design Life (yrs)	Customer Knowledge (GMR)
Design Manual Work Package	Thinking	Design Life (yrs)	Customer Knowledge (GMR)

Revised: November 1999	6	20	1
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	Product	Process
Exhausted Carbon	Heatless steam cooling	
	Mulch press, pump, screen and filter	
	Fertilizer digester plant steams carbonized and	

### Operational Carbon Emissions

Design Manual Book Package	Annual Electricity Consumption (kWh)	Carbon Footprint (kg CO <sub>2</sub> e)
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Relative frequency of cases	0	0	0
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	Included	Excluded
Operational Carbon	<ul style="list-style-type: none"> <li>all activities prior to the 1990s</li> <li>emissions from closed off plants</li> </ul>	<ul style="list-style-type: none"> <li>Fuel input to incinerators</li> <li>-</li> </ul>









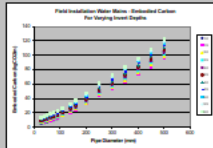




Extended Carbon Emissions						
Design Manual Work Package	Length (m)	Wastewater (m³)	Depth (m)	Perish group	Design Life (yr)	Carbon foot- print (kg CO <sub>2</sub> e)
Reinforcement for 6 Standard Boxes	0	0	0	0	40	0
Steel Boxes	0	0	0	0	40	0

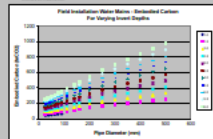
Operational Carbon Emissions	
Design Manual Work Package	Carbon Use Pg. 1081
All associated carbon associated with this item	

## Fig. 10. Results for test 1.



	Included	Excluded
Construction Carbon	Physical materials, transportation, heat treatment and finish manufacturing	Materials other than PEEK in drilling tool
	Spindle manufacturing	
		Purging systems

### Modeling and simulation





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Project Description: Project Description		
Project Location: Project Location		
Project Status: Project Status		
Project Budget: Project Budget		
Project Risk: Project Risk		
Project Impact: Project Impact		
Project Conclusion: Project Conclusion		

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