APPENDIX C FOOTPRINTING SPREADSHEET OUTPUT

PRIMARY ANALYSIS

Environmental Footprint Analysis Romic, East Palo Alto, CA, EPA Region 9

SPREADSHEET OUTPUT FILES - PRIMARY ANALYSIS

Figures C-1and C-2 illustrate the organization of the footprint analysis spreadsheets. Each remedy has a footprint analysis spreadsheet that receives the information from the remedy inventory sheets. The information and calculations from all of the footprint analysis spreadsheets are then compiled in a general or main spreadsheet. Each remedy footprint analysis spreadsheet refers to its own footprint conversion spreadsheet so that the footprint conversion factors can be changed by alternative if preferred. For each alternative and each level the on-site, off-site, and on-site + off-site footprints are calculated.

This appendix provides all of the spreadsheet output for the Romic primary analysis. The output from the main sheet is provided first, followed by charts illustrating footprints for each of the parameters, followed by the detailed spreadsheet output for each of the remedy alternatives.

For this analysis the following assignments apply:

- Alternative 2 Hybrid remedy
- Alternative 3 Bioremediation
- Alternative 4 P&T
- Level 1 On-site activities
- Level 2 Transportation
- Level 3 Off-site activities.

It is recognized that the above level assignments are somewhat redundant with the ability for each footprinting spreadsheet to calculate the on-site, off-site, and on-site + off-site footprints.

Figure C-1. Organization of Files for Primary Analysis



Figure C-2. Organization of Footprint Analysis Spreadsheets



Traffic and Personnel Tab

Calculates miles driven and days worked based on information directly from inventory files

Footprint Analysis Spreadsheets - General Output Romic, East Palo Alto, CA - Primary Analysis

Variables In Alternative:

Level 1	On-Site
Level 2	Transport.
Level 3	Off-Site
Level 4	Not Used
Level 5	Not Used
Level 6	Not Used

File Path :

File Name	Baseline	Alternative Name
Green Remediation Tool Alternative 2 v1.xlsx		Hybrid
Green Remediation Tool Alternative 3 v1.xlsx	Х	Bioremediation
Green Remediation Tool Alternative 4 v1.xlsx		P&T
Green Remediation Tool Alternative 10.xlsx		
Green Remediation Tool Alternative 10.xlsx		
Green Remediation Tool Alternative 10.xlsx		
Green Remediation Tool Alternative 10.xlsx		
Green Remediation Tool Alternative 10.xlsx		
Green Remediation Tool Alternative 10.xlsx		
Green Remediation Tool Alternative 10.xlsx		

Put an "X" in the "Baseline" column next to the alternative that should be considered the baseline when doing a scaled comparions of the various alternatives

Sheet Name:

	Comparison for Parameters Used, Extracted, Emitted, or Generated On-Site														
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mibtu	IVIWN	gal x 1000	gal x 1000	gai x 1000	IDS	lDS	IDS	IDS	tons	tons	IDS	lDS	IDS	IDS
Level 1 - On-Site															
Hybrid	8.700.000.	2.200.	510.000.	5.700.	500.000.	200.000.	1.500.	49.	30.	0	6.300.	3.300.	0	0	0
Bioremediation	1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0
P&T	27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0
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Level 2 - Transport.	1	1							11						
Hybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioremediation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Level 3 - Off-Site															
Hybrid	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioremediation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Total (All Levels)	1	11							11						
Hybrid	8,700,000.	2,200.	510,000.	5,700.	500,000.	200,000.	1,500.	49.	30.	0	6,300.	3,300.	0	0	0
Bioremediation	1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0
P&T	27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0
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	Comparison for Parameters Used, Extracted, Emitted, or Generated Off-Site														
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site				\vdash	┝───┤			├ ───┤			├ ───┤	├ ───┤			
Hybrid	0	0	0			0	0	0	0	0			0	0	0
Bioremediation	0	0	0	0		0	0	0	0	0	0	0	0	0	0
P&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Level 2 - Transport.	12,000,000	200				1.000.000	11000	470	220	0.0000			0.015	0.00000	0.000000000
Hybrid Discomendiation	13,000,000.	260.	27.			1,900,000.	14,000.	470.	220.	0.0033		27.	0.015	0.00022	0.0000000017
Bioremediation	10,000,000.	6.	32.	0		1,600,000.	12,000.	420.	230.	0.004	0	22.	0.018	0.00027	0.000000002
	13,000,000.	910.	0.019			1,700,000.	12,000.	390.	190.	0.0000023		23.	0.000011	0.0000016	0.0000000000012
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Level 3 - Off-Site															
Hybrid	51,000,000.	1,500.	29,000.	0	0	10,000,000.	65,000.	60,000.	3,600.	7.9	0.014	320.	0.072	0.68	0.000057
Bioremediation	17,000,000.	580.	3,000.	0	0	4,300,000.	24,000.	24,000.	3,500.	4.	0.015	210.	0.025	0.25	0.000064
P&T	160,000,000.	5,400.	110,000.	0	0	34,000,000.	240,000.	190,000.	3,900.	23.	0.0073	720.	0.27	2.3	0.000028
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Total (All Levels)															
Hybrid	64,000,000.	1,800.	29,000.	0	0	12,000,000.	79,000.	60,000.	3,800.	7.9	0.014	350.	0.087	0.68	0.000057
Bioremediation	27,000,000.	590.	3,000.	0	0	5,900,000.	36,000.	24,000.	3,700.	4.	0.015	230.	0.043	0.25	0.000064
P&T	170,000,000.	6,300.	110,000.	0	0	36,000,000.	250,000.	190,000.	4,100.	23.	0.0073	740.	0.27	2.3	0.000028
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	Comparison for Total Parameters Used, Extracted, Emitted, or Generated On-Site and Off-Site														
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
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Level 1 - On-Site															
Hybrid	8,700,000.	2,200.	510,000.	5,700.	500,000.	200,000.	1,500.	49.	30.	0	6,300.	3,300.	0	0	0
Bioremediation	1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0
P&1	27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0
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Level 2 - Transport.															,
Hybrid	13.000.000.	260.	27.	0	0	1.900.000.	14.000.	470.	220.	0.0033	0	27.	0.015	0.00022	0.00000000017
Bioremediation	10,000,000.	6.	32.	0	0	1,600,000.	12,000.	420.	230.	0.004	0	22.	0.018	0.00027	0.000000002
P&T	13,000,000.	910.	0.019	0	0	1,700,000.	12,000.	390.	190.	0.0000023	0	23.	0.000011	0.00000016	0.0000000000012
Level 3 - Off-Site															
Hybrid	51,000,000.	1,500.	29,000.	0	0	10,000,000.	65,000.	60,000.	3,600.	7.9	0.014	320.	0.072	0.68	0.000057
Bioremediation	17,000,000.	580.	3,000.	0	0	4,300,000.	24,000.	24,000.	3,500.	4.	0.015	210.	0.025	0.25	0.000064
P&T	160,000,000.	5,400.	110,000.	0	0	34,000,000.	240,000.	190,000.	3,900.	23.	0.0073	720.	0.27	2.3	0.000028
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Total (All Levels)															,
Hybrid	73.000.000.	4.000.	540.000.	5.700.	500.000.	12.000.000.	81.000.	61.000.	3.900.	7.9	6.300.	3.600.	0.087	0.68	0.000057
Bioremediation	29,000,000.	600.	9,900.	6,900.	27.	6,100,000.	38,000.	24,000.	3,800.	4.	6,300.	240.	0.043	0.25	0.000064
P&T	200,000,000.	14,000.	2,800,000.	4.	2,700,000.	36,000,000.	250,000.	190,000.	4,100.	23.	6,200.	19,000.	0.27	2.3	0.000028
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				Alternativ	es that Have a	a Relatively L	arge On-Site	Footprint (Re	lative to Oth	er Alternative	s), For Each F	arameter			
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Hybrid	0	0	0	1	0	1	1	1	1	0	1	0	0	0	0
Bioremediation	0	0	0	1	0	1	1	1	1	0	1	0	0	0	0
P&T	1	1	1	0	1	1	0	0	0	0	1	1	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

A cell has a value of 1 and is shaded if the footprint for that parameter and alternative is larger than 50% of the largest footprint for that parameter amongst the various alternatives (i.e., the alternative has a relatively high footprint for that parameter).

	Alternatives that Have a Relatively Large Off-Site Footprint (Relative to Other Alternatives), For Each Parameter														
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Hybrid	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1
Bioremediation	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1
P&T	1	1	1	0	0	1	1	1	1	1	0	1	1	1	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

A cell has a value of 1 and is shaded if the footprint for that parameter and alternative is larger than 50% of the largest footprint for that parameter amongst the various alternatives (i.e., the alternative has a relatively high footprint for that parameter).

			Alternativ	ves that Have	a Relatively L	arge Combir	ned (On-Site a	nd Off-Site) I	Footprint (Re	lative to Othe	r Alternative	s), For Each P	arameter		
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Hybrid	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1
Bioremediation	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1
P&T	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

A cell has a value of 1 and is shaded if the footprint for that parameter and alternative is larger than 50% of the largest footprint for that parameter amongst the various alternatives (i.e., the alternative has a relatively high footprint for that parameter).

	Number	of Relatively High Fo	ootprints for Each A	ternative
	On-Site Parameters	Off-Site Parameters	On-Site and Off-Site	Duration, Travel, & Labor
Hybrid	6	3	4	7
Bioremediation	6	3	4	4
P&T	7	11	13	6
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0

A footprint is considered relatively large if it is more than 50% of the largest footprint (among the various alternatives) for that parameter.

			Rei	medy Dura	ation, Trav	el, and La	bor		
	Remedy Duration	Time to Redevel.	Passenger Car Trips to Site	Light-Duty Truck Trips to Site	Heavy-Duty Truck Trips to Site	Passenger Car Travel	Light-Duty Truck Trips to Site	Heavy-Duty Truck Trips to Site	Man-Days Worked On- Site
	years	years	trips	trips	trips	miles	miles	miles	Man-Days
Hybrid	30.	10.	0	2,916.	1,462.	0	163,170.	699 <i>,</i> 650.	5,522.
Bioremediation	10.	10.	0	1,312.	1,465.	0	114,828.	700,000.	4,036.
P&T	40.	5.	0	2,841.	1,455.	0	240,812.	698,950.	5,191.

					Scaled Co	mparison fo	or Parameters	Used, Extrac	ted, Emitted,	or Generated	d On-Site				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
Baseline Alternative:	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Keleased	Released
	IVIDEU		gai x 1000	gai x 1000	gai x 1000	105	105	105	105	tons		105	105	105	105
On-Site					├ ───┤									<u> </u>	
Hybrid	580%	16923%	7391%	83%	1851852%	87%	83%	86%	86%	0%	100%	106452%	0%	0%	0%
Bioremediation	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	100%	100%	0%	0%	0%
P&T	1800%	58462%	39130%	0%	1000000%	130%	47%	47%	46%	0%	98%	580645%	0%	0%	0%
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Transport.		┨╞─────┤			├			├			├ ───┤				
Hybrid	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Bioremediation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
P&T	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
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Off Site		┨┝────┤			┝────┤						├ ───┤			L	
Hybrid	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Bioremediation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
P&T	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
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Hubrid	520%	160220/	72010/	Q20/	18518520/	Q70/	92%	96%	96%	0%	100%	106452%	0%	0%	0%
Bioremediation	100%	1092376	100%	100%	100%	87% 100%	100%	100%	100%	0%	100%	10043270	0%	0%	0%
P&T	1800%	58462%	39130%	0%	1000000%	130%	47%	47%	46%	0%	98%	580645%	0%	0%	0%
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		1													

Note: Values indicate a normalized scale to compare alternatives. For each parameter the footprint for each alternative is divided by the footprint of the first alternative.

	Scaled Comparison for Parameters Used, Extracted, Emitted, or Generated Off-Site														
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
Baseline Alternative:	Usea Mbtu	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Keleased	Keleased
	IVIDEU		gai X 1000	gai X 1000	gal X 1000	105	ibs	105	105	tons		105	105	105	105
On-Site					├ ───┤		├ ───┤		<u> </u>						<u> </u>
Hybrid	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Bioremediation	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
P&T	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
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Transport.															
Hybrid	130%	4333%	84%	0%	0%	119%	117%	112%	96%	83%	0%	123%	83%	81%	85%
Bioremediation	100%	100%	100%	0%	0%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%
P&T	130%	15167%	0%	0%	0%	106%	100%	93%	83%	0%	0%	105%	0%	0%	0%
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Off-Site															
Hybrid	300%	259%	967%	0%	0%	233%	271%	250%	103%	198%	93%	152%	288%	272%	89%
Bioremediation	100%	100%	100%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
P&T	941%	931%	3667%	0%	0%	791%	1000%	792%	111%	575%	49%	343%	1080%	920%	44%
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Total (All Levels)															
Hybrid	237%	305%	967%	0%	0%	203%	219%	250%	103%	198%	93%	152%	202%	272%	89%
Bioremediation	100%	100%	100%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
٢&١	630%	1068%	3667%	0%	0%	610%	694%	/92%	111%	575%	49%	322%	628%	920%	44%
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Note: Values indicate a normalized scale to compare alternatives. For each parameter the footprint for each alternative is divided by the footprint of the first alternative.

				Scale	ed Compariso	n for Total Pa	arameters Us	ed, Extracted	, Emitted, or	Generated O	n-Site and Of	f-Site			
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
Baseline Alternative:	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
bioremediation	IVIDEU		gai X 1000	gai x 1000	gai X 1000	201	IUS	IDS	lbs	tons	tons	201	lus	IUS	lbs
On-Site				1				-		11					<u> </u>
Hybrid	580%	16923%	7391%	83%	1851852%	87%	83%	86%	86%	0%	100%	106452%	0%	0%	0%
Bioremediation	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	100%	100%	0%	0%	0%
P&T	1800%	58462%	39130%	0%	1000000%	130%	47%	47%	46%	0%	98%	580645%	0%	0%	0%
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Transport.				├────┤											
Hybrid	130%	4333%	84%	0%	0%	119%	117%	112%	96%	83%	0%	123%	83%	81%	85%
Bioremediation	100%	100%	100%	0%	0%	100%	100%	100%	100%	100%	0%	100%	100%	100%	100%
P&T	130%	15167%	0%	0%	0%	106%	100%	93%	83%	0%	0%	105%	0%	0%	0%
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Off-Site															
Hybrid	300%	259%	967%	0%	0%	233%	271%	250%	103%	198%	93%	152%	288%	272%	89%
Bioremediation	100%	100%	100%	0%	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
P&T	941%	931%	3667%	0%	0%	791%	1000%	792%	111%	575%	49%	343%	1080%	920%	44%
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			/ 	1						11					<u> </u>
Total (All Levels)															
Hybrid	252%	667%	5455%	83%	1851852%	197%	213%	254%	103%	198%	100%	1500%	202%	272%	89%
Bioremediation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
P&T	690%	2333%	28283%	0%	1000000%	590%	658%	792%	108%	575%	98%	7917%	628%	920%	44%
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Note: Values indicate a normalized scale to compare alternatives. For each parameter the footprint for each alternative is divided by the footprint of the first alternative.

Green Remediation Footprint Analysis Spreadsheets Romic, East Palo Alto, CA - Primary Analyis- General Output

					Major Co	ontributors fo	r Parameters	Used, Extrac	cted, Emitted,	or Generate	d On-Site				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
On-Site															
Hybrid	Flec Use (86%)	Flec Use (100%)	GW Ext (98%)	PW Used (100%)	GW Ext (100%)	Diesel-On (100%)	Diesel-On (100%)	Diesel-On (98%)	Diesel-On (100%)		HW-Gen (100%)	Proc. HAPs (100%)			
Bioremediation	Diesel-On (93%)	Elec. Use (100%)	PW Used (100%)	PW Used (100%)	GW Ext (100%)	Diesel-On (100%)	Diesel-On (100%)	Diesel-On (98%)	Diesel-On (100%)		HW-Gen (100%)	Diesel-On (100%)			
P&T	Elec. Use (96%)	Elec. Use (100%)	GW Ext (100%)	PW Used (100%)	GW Ext (100%)	Proc. GHGs (63%)	Diesel-On (94%)	Diesel-On (93%)	Diesel-On (100%)		HW-Gen (100%)	Proc. HAPs (100%)			
Transport.															
Hybrid															
Bioremediation															
P&1												<u> </u>			
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Off-Site															
Hybrid															
Bioremediation															
P&T															
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												├ ───┤			
Total (All Levels)				<u> </u>								<u> </u>			
Hybrid	1 - Elec I Ise (86%)	1 - Elec Ise (100%)	1 - GW Ext (98%)	1 - PW Used (100%)	1 - GW Ext (100%)	1 - Diesel-On (100%)	1 - Diesel-On (100%)	1 - Diesel-On (98%)	1 - Diesel-On (100%)		1 - HW-Gen (100%)	1 - Proc. HAPs (100%)			
Bioremediation	1 - Diesel-On (93%)	1 - Elec. Use (100%)	1 - PW Used (100%)	1 - PW Used (100%)	1 - GW Ext (100%)	1 - Diesel-On (100%)	1 - Diesel-On (100%)	1 - Diesel-On (98%)	1 - Diesel-On (100%)		1 - HW-Gen (100%)	1 - Diesel-On (100%)			
P&T	1 - Elec. Use (96%)	1 - Elec. Use (100%)	1 - GW Ext (100%)	1 - PW Used (100%)	1 - GW Ext (100%)	1 - Proc. GHGs (63%)	1 - Diesel-On (94%)	1 - Diesel-On (93%)	1 - Diesel-On (100%)		1 - HW-Gen (100%)	1 - Proc. HAPs (100%)			

Note: The primary contributor to the footprint for a particular alternative and level is indicated by an abbreviation in addition to the percentage of the overall footprint that results from this primary contributor. For the total, the number preceding the abbreviation represents the level associated with the contributor (e.g., "1 - Elec. Use (86%)" in the "energy use" column indicates that electricity use in level 1 accounts for 86% of the overall energy used on-site. A key for the abbreviations is included on the "input" sheet for each of the alternatives (see following pages).

					Major Co	ontributors fo	or Parameters	Used, Extrac	cted, Emitted	, or Generate	d Off-Site				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
On Site		<u> </u>		├ ───┤	└────┤	├ ───┤				⊢I				\vdash	
Hybrid		<u> </u>		<u> </u>	——————————————————————————————————————					\vdash					
Rioremediation						├ ───┤				\vdash					
D&T		<u> </u>				<u> </u>				⊢				<u> </u>	
		<u> </u>												\vdash	
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Transport.							r								
Hvbrid	Diesel-Off (66%)	Elec. Trans (100%)	PW Trans. (100%)			Diesel-Off (74%)	Diesel-Off (79%)	Diesel-Off (70%)	Diesel-Off (95%)	PW Trans. (100%)		Diesel-Off (70%)	PW Trans. (100%)	PW Trans. (100%)	PW Trans. (100%)
Bioremediation	Diesel-Off (88%)	PW Trans. (73%)	PW Trans. (100%)			Diesel-Off (88%)	Diesel-Off (92%)	Diesel-Off (81%)	Diesel-Off (96%)	PW Trans. (100%)		Diesel-Off (86%)	PW Trans. (100%)	PW Trans. (100%)	PW Trans. (100%)
P&T	Diesel-Off (56%)	Elec. Trans (100%)	PW Trans. (100%)			Diesel-Off (71%)	Diesel-Off (74%)	Diesel-Off (72%)	Diesel-Off (95%)	PW Trans. (100%)		Diesel-Off (70%)	PW Trans. (100%)	PW Trans. (100%)	PW Trans. (100%)
	, , , , , , , , , , , , , , , , ,											,			
Off-Site															
Hybrid	Elec. Prod (33%)	GAC-R (46%)	Elec. Prod (55%)			GAC-R (31%)	GAC-R (60%)	GAC-R (38%)	HW-Disp (78%)	Steel (62%)	PVC (93%)	Lab (59%)	POTW (57%)	POTW (47%)	PVC (96%)
Bioremediation	Lab (44%)	Lab (72%)	HW-Disp (33%)			Bio#2 (30%)	Bio#2 (42%)	Bio#2 (50%)	HW-Disp (80%)	Steel (95%)	PVC (100%)	Lab (81%)	HW-Disp (27%)	Diesel-Pro (44%)	PVC (100%)
P&T	GAC-R (50%)	GAC-R (69%)	Elec. Prod (50%)			GAC-R (50%)	GAC-R (88%)	GAC-R (68%)	HW-Disp (69%)	Steel (61%)	PVC (73%)	POTW (46%)	POTW (81%)	POTW (74%)	PVC (82%)
		L		L	L										
I OTAI (AII LEVEIS)									2 104 21 (2 1			
Hybrid Dia nama dia tian	3 - Elec. Prod (27%)	3 - GAC-R (38%)	3 - Elec. Prod (55%)			3 - GAC-R (26%)	3 - GAC-R (49%)	3 - GAC-R (38%)	3 - HW-Disp (74%)	3 - Steel (62%)	3 - PVC (93%)	3 - Lab (54%)	3 - POTW (47%)	3 - POTW (47%)	3 - PVC (96%)
	2 - Diesel-Off (33%)	3 - LaD (/1%)	3 - HW-Disp (33%)			2 - Diesel-Off (24%)	2 - Diesel-Off (31%)	3 - ВІО#2 (50%)	3 - HW-Disp (76%)	3 - Steel (95%)	3 - PVC (100%)	3 - Lap(/4%)	2 - PW Trans. (42%)	3 - Diesel-Pro (44%)	3 - PVC (100%)
rai	3 - GAC-R (47%)	<u> 3 - GAC-К (59%)</u>	3 - Elec. Prod (50%)	┝───┤	┝────┤	<u>з - GAC-К (47%)</u>	<u>э - GAC-к (84%)</u>	з - GAC-К (68%)	3 - HW-Disp (66%)	3 - SLEEL (61%)	3 - PVC (73%)	3 - PUTW (45%)	5 - PUTW (81%)	5 - PUTVV (74%)	3 - PVC (82%)
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Note: The primary contributor to the footprint for a particular alternative and level is indicated by an abbreviation in addition to the percentage of the overall footprint that results from this primary contributor. For the total, the number preceding the abbreviation represents the level associated with the contributor (e.g., "1 - Elec. Use (86%)" in the "energy use" column indicates that electricity use in level 1 accounts for 86% of the overall energy used on-site. A key for the abbreviations is included on the "input" sheet for each of the alternatives (see following pages).

				C	Comparison fo	or Total Parar	neters Used,	Extracted, En	nitted, or Ger	nerated On-Si	te and Off-Sit	te			
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
		,		ļ		L			·				L		ļ
On-Site															
Hybrid	Elec. Use (86%)	Elec. Use (100%)	GW Ext (98%)	PW Used (100%)	GW Ext (100%)	Diesel-On (100%)	Diesel-On (100%)	Diesel-On (98%)	Diesel-On (100%)		HW-Gen (100%)	Proc. HAPs (100%)	L		ļ
Bioremediation	Diesel-On (93%)	Elec. Use (100%)	PW Used (100%)	PW Used (100%)	GW Ext (100%)	Diesel-On (100%)	Diesel-On (100%)	Diesel-On (98%)	Diesel-On (100%)		HW-Gen (100%)	Diesel-On (100%)	L		L
P&T	Elec. Use (96%)	Elec. Use (100%)	GW Ext (100%)	PW Used (100%)	GW Ext (100%)	Proc. GHGs (63%)	Diesel-On (94%)	Diesel-On (93%)	Diesel-On (100%)		HW-Gen (100%)	Proc. HAPs (100%)			
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Iransport.		EL T (1000()	DW(T (1000())							DM (T (1000()			DM/T (4000()	DW/T (4000/)	DW/T (1000/)
Hybrid	Diesel-Off (66%)	Elec. Trans (100%)	PW Trans. (100%)			Diesel-Off (74%)	Diesel-Off (79%)	Diesel-Off (70%)	Diesel-Off (95%)	PW Trans. (100%)		Diesel-Off (70%)	PW Trans. (100%)	PW Trans. (100%)	PW Trans. (100%)
Bioremediation	Diesel-Off (88%)	PW Trans. (73%)	PW Trans. (100%)			Diesel-Off (88%)	Diesel-Off (92%)	Diesel-Off (81%)	Diesel-Off (96%)	PW Trans. (100%)		Diesel-Off (86%)	PW Trans. (100%)	PW Trans. (100%)	PW Trans. (100%)
P&1	Diesel-Off (56%)	Elec. Trans (100%)	PW Trans. (100%)			Diesel-Off (71%)	Diesel-Off (74%)	Diesel-Off (72%)	Diesel-Off (95%)	PW Trans. (100%)		Diesel-Off (70%)	PW Trans. (100%)	PW Trans. (100%)	PW Trans. (100%)
														·	
		·													
Off Site		·													
Un-site		CAC P (46%)	Floc Brod (FE%)			CAC P (21%)		GAC P (29%)	HW Dico (79%)	Stool (62%)	$D_{VC}(0.29/)$	Lab (50%)			
Rioremediation	Elec. Prod (33%)	GAC-K (40%)	Elec. Prod (33%)		—	Bio#2 (20%)	Bio#2 (42%)	Bio#2 (50%)	HW-Disp (78%)	Steel (02%)	PVC(3376)	Lab (39%)	HW/Disp(27%)	$\frac{POTVV}{(4776)}$	PVC (30%)
		$CAC_P(60\%)$	Floc Brod (50%)			$GAC_P(50\%)$	$GAC_P(88\%)$	$GAC_P(68\%)$	HW-Disp (60%)	Steel (93%)	PVC(100%)		DOT(N/(81%))	DIESEI-PIO(44%)	PVC (100%)
	GAC-R (50%)	GAC-IX (0576)	Liec. Frod (50%)				GAC-IT (8876)	GAC-IN (0876)	1100-Disp (0576)	5(221 (0176)	PVC (7576)	10100 (4070)	10100 (8176)	10100 (7470)	FVC (0270)
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													<u> </u>		<u> </u>
Total (All Levels)		·				<u> </u>							<u> </u>	<u> </u>	
Hybrid	3 - Elec. Prod (23%)	1 - Elec. Use (55%)	1 - GW Fxt (93%)	1 - PW Used (100%)	1 - GW Fxt (100%)	3 - GAC-R (26%)	3 - GAC-R (48%)	3 - GAC-R (38%)	3 - HW-Disp (72%)	3 - Steel (62%)	1 - HW-Gen (100%)	1 - Proc. HAPs (92%)	3 - POTW (47%)	3 - POTW (47%)	3 - PVC (96%)
Bioremediation	2 - Diesel-Off (30%)	3 - Lab (70%)	1 - PW Used (70%)	1 - PW Used (100%)	1 - GW Ext (100%)	2 - Diesel-Off (23%)	2 - Diesel-Off (29%)	3 - Bio#2 (50%)	3 - HW-Disp (72%)	3 - Steel (95%)	1 - HW-Gen (100%)	3 - Lab (71%)	2 - PW Trans (42%)	3 - Diesel-Pro (44%)	3 - PVC (100%)
P&T	3 - GAC-R (40%)	1 - Elec. Use (54%)	1 - GW Ext (96%)	1 - PW Used (100%)	1 - GW Ext (100%)	3 - GAC-R (47%)	3 - GAC-R (84%)	3 - GAC-R (68%)	3 - HW-Disp (66%)	3 - Steel (61%)	1 - HW-Gen (100%)	1 - Proc. HAPs (95%)	3 - POTW (81%)	3 - POTW (74%)	3 - PVC (82%)
	5 C/C II (10/0)			1 1 1 0 0 0 0 (100) 0 /	1 0W Ext (10076)				5 HW Disp (0070)			1 1100.11110 (3370)	3 1010 (01/0)		
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Note: The primary contributor to the footprint for a particular alternative and level is indicated by an abbreviation in addition to the percentage of the overall footprint that results from this primary contributor. For the total, the number preceding the abbreviation represents the level associated with the contributor (e.g., "1 - Elec. Use (86%)" in the "energy use" column indicates that electricity use in level 1 accounts for 86% of the overall energy used on-site. A key for the abbreviations is included on the "input" sheet for each of the alternatives (see following pages).

Romic, East Palo Alto, CA - Primary Analysis - Output by Parameter



Alternative: Alternative Name: Path Name: Main File Name: Reference File Name: Module File Name:

Variables In Alternative:

Level 1	On-Site
Level 2	Transport.
Level 3	Off-Site
Level 4	Not Used
Level 5	Not Used
Level 6	Not Used

Alternative 2 Hybrid P&T/Bio.

Green Remediation Tool Main.xlsx Green Remediation Tool Reference.xlsx alternative 2 v1 inventory modules.xlsx

					1	1	1		
			Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
		Units	On-Site	Transport.	Off-Site	Not Used	Not Used	Not Used	Total
	Abbreviation								
Energy									
Diesel (on-site)	Diesel-On	gal	8891						8891
Gasoline (on-site use)	Gas-On	gal	237.6						237.6
Natural gas (on-site use)	NG-On	ccf							0
Diesel (off-site use)	Diesel-Off	gal		61837					61837
Gasoline (off-site use)	Gas-Off	gal		25034					25034
Natural gas (off-site use)	NG-Off	ccf							0
On-site electricity use	Elec. Use	MWh	2200						2200
Electricity transmission*	Elec. Trans	MWh		2200					2200
Electricity production*	Elec. Prod	MWh			2200				2200
Matoviala									
	DVC	lb			8000				<u>8000</u>
		lb.			6000				6000
	Stool	u lb			10400				10400
Steel	Sleer	u lb			19400				19400
Stalliess Steel	S. Steel	ID top			1000				1000
	Saliu	lon			71				71
Cement Grout	Cement	dry-ton			/1				71
	Concrete	tons			369				369
Bentonite	Bent.	ton			1				1
Regenerated GAC	GAC-R	IDS			1566000				1566000
Bioinjection (Molasses)	BIO#1	lbs			2162200				2162200
Bioinjection (Cheese Whey)	BIO#2	lbs			994100				994100
Bioinjection (Vegetable Oil)	BIO#3	lbs			0				0
Diesel Produced	Diesel-Pro	gal			/0/28				/0/28
Gasoline Produced	Gas-Pro	gal			252/1.6				252/1.6
Natural Gas Produced	NG-Pro	cct			0				0
Groundwater Extracted On-site	GW Ext	gal x 1000	504599						504599
Potable Water Produced	PW Pro.	gal x 1000			5671				56/1
Potable Water Transported	PW Trans.	gal x 1000		5671					5671
Potable Water Used	PW Used	gal x 1000	5671						5671
Other On-Site Water Used	OW	gal x 1000							0
Waste and Other Services									
Off-site waste water treatment	POTW	gal x 1000			505000				505000
Solid Waste Generation	SW-Gen	ton	0						0
Solid Waste Disposal	SW-Disp	ton			0				0
Hazardous Waste Generation	HW-Gen	ton	6280						6280
Hazardous Waste Disposal	HW-Disp	ton			6280				6280
Laboratory Analysis	Lab	\$			919700				919700
Other									
On-site process emissions (HAPs)	Proc. HAPs	lbs	3300						3300
On-site process emissions (GHGs)	Proc. GHGs	lbs CO2e	0						0

Usage Input - Alternative 2

Notes:

* Report on-site electricity usage for these categories. Transmission and electricity production will be automatically calculated.

					Totals Fo	r Parameters	Used, Extrac	ted, Emitted,	or Generated	d On-Site - Al	ternative 2				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	8,700,000.	2,200.	0	0	0	200,000.	1,500.	49.	30.	0	0	2.8	0	0	0
Materials	0	0	510,000.	5,700.	500,000.	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	6,300.	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	3,300.	0	0	0
On-Site Total	8,700,000.	2,200.	510,000.	5,700.	500,000.	200,000.	1,500.	49.	30.	0	6,300.	3,300.	0	0	0
Level 2 - Transport.															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Loval 2 - Off-Site															├ ───┤
Evers - Ojj-Site	0	0	0	0	0	0		0	0	0	0	0		0	
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Total	0	0	0		0	0	0	0	0	0	0	0	0	0	0
		0								Ŭ		U	Ŭ		
Level 4 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#REF!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used											l]		
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						⊢ −−−−							 		├ ────┤
Total	8 700 000	2 200	510 000	5 700	500.000	200.000	1 500	10	20		6 300	3 300		0	
, otur	0,700,000.	2,200.	510,000.	5,700.	500,000.	200,000.	1,500.	4 <i>3</i> .	50.	U	0,500.	5,500.	U	0	0

					Totals For	· Parameters	Used, Extract	ed, Emitted,	or Generated	Off-Site - Alt	ernative 2				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		I													
Level 2 - Transport.	42.000.000					1 000 000	11.000								
Energy	13,000,000.	260.	0	0	0	1,900,000.	14,000.	440.	220.	0	0	27.	0	0	0
Materials	42,000.	3.7	27.	0	0	2,900.	3.1	25.	0.32	0.0033	0	0	0.015	0.00022	0.0000000017
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	13,000,000.	260.	27.		<i>0</i>	1,900,000.	14,000.	470.	220.	0.0033	0	27.	0.015	0.00022	0.0000000017
l evel 3 - Off-Site															
Energy	17 000 000	130	16,000	0	0	1 800 000	1 800	15,000	190	2	0	37	0.0057	0.068	0.00000019
Materials	23,000,000	800	11,000	0	0	5,700,000	55,000	40,000	480.	5.6	0.014	26	0.018	0.24	0.000056
Waste/Services	11,000,000	600	1,900.	0	0	2,900,000	8,200	4.800	2,900.	0.29	0	260.	0.048	0.37	0.00000059
Other	0	0	0	0	0	0	0	0	0	0.23	0	0	0.010	0.57	0.0000000000000000000000000000000000000
Off-Site Total	51.000.000.	1.500.	29.000.	0	0	10.000.000.	65.000.	60.000.	3.600.	7.9	0.014	320.	0.072	0.68	0.000057
Level 4 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
#REF!	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
											\vdash		⊢−−−−┤		⊢ −−−−
Tatal	64 000 000	1 000	20.000			12 000 000	70.000	60.000	2,000	70	0.014	250	0.007	0.00	0.000057
iotai	04,000,000.	1,800.	29,000.	U	0	12,000,000.	79,000.	60,000.	3,800.	7.9	0.014	350.	0.087	0.68	0.000057

						Totals fo	or On-Site and	Off-Site Para	meters - Alte	ernative 2					
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	8,700,000.	2,200.	0	0	0	200,000.	1,500.	49.	30.	0	0	2.8	0	0	0
Materials	0	0	510,000.	5,700.	500,000.	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	6,300.	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	3,300.	0	0	0
On-Site Total	8,700,000.	2,200.	510,000.	5,700.	500,000.	200,000.	1,500.	49.	30.	0	6,300.	3,300.	0	0	0
Level 2 - Transport.															
Energy	13,000,000.	260.	0	0	0	1,900,000.	14,000.	440.	220.	0	0	27.	0	0	0
Materials	42,000.	3.7	27.	0	0	2,900.	3.1	25.	0.32	0.0033	0	0	0.015	0.00022	0.0000000017
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	13,000,000.	260.	27.	0	0	1,900,000.	14,000.	470.	220.	0.0033	0	27.	0.015	0.00022	0.0000000017
													┝───┤		
Level 3 - Off-Site	17 000 000	120	16.000			1 000 000	4 000	15.000	100				0.0057	0.050	0.000000000
Energy	17,000,000.	130.	16,000.	0	0	1,800,000.	1,800.	15,000.	190.	2.	0	37.	0.0057	0.068	0.00000019
Materials	23,000,000.	800.	11,000.	0	0	5,700,000.	55,000.	40,000.	480.	5.6	0.014	26.	0.018	0.24	0.000056
Waste/Services	11,000,000.	600.	1,900.	0	0	2,900,000.	8,200.	4,800.	2,900.	0.29	0	260.	0.048	0.37	0.0000059
Other	51 000 000	1 500	20,000	0	0	10,000,000	65.000	60.000	0	0	0	0	0 072	0	0 000057
Ojj-Site Total	51,000,000.	1,500.	29,000.		0	10,000,000.	65,000.	60,000.	3,600.	7.9	0.014	320.	0.072	0.68	0.000057
Loval A Not Licad							├ ───┤						┝───┤		├ ────┤
Eever 4 - Not Osed	0	0	0		0				0	0	0	0		0	
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0		0	0
#REF!	<u>0</u>	0	0		0	0	0	0	0	0	0	0		<u>0</u>	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	73,000,000.	4,000.	540,000.	5,700.	500,000.	12,000,000.	81,000.	61,000.	3,900.	7.9	6,300.	3,600.	0.087	0.68	0.000057

					Percentages	For Paramet	ers Used, Extr	racted, Emitte	ed, or Generat	ted On-Site -	Alternative 2				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	100%	100%	0%	0%	0%	100%	100%	100%	100%	0%	0%	<1%	0%	0%	0%
Materials	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%
Un-Site Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	100%	100%	0%	0%	0%
Level 2 - Transport														└────┤	
Eever 2 - Mansport. Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 3 - Off-Site															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other On Cita Tatal	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Un-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
level 5 - Not lised							┝────┤		┝────┤	┝─────┤	┝────┤		├	┝────┤	┝────┤
Ever 5 - Not Osed	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

					Percentages	For Paramete	ers Used, Extra	acted, Emitte	d, or Generat	ed Off-Site -	Alternative 2	2			
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
l evel 2 - Transnort											⊢I				
Energy	20%	15%	0%	0%	0%	16%	18%	<1%	6%	0%	0%	8%	0%	0%	0%
Materials	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	0%	17%	<1%	<1%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	20%	15%	<1%	0%	0%	16%	18%	<1%	6%	<1%	0%	8%	17%	<1%	<1%
Level 3 - Off-Site															
Energy	27%	7%	55%	0%	0%	15%	2%	25%	5%	25%	0%	11%	7%	10%	<1%
Materials	36%	45%	38%	0%	0%	48%	70%	66%	13%	71%	100%	7%	21%	35%	98%
Waste/Services	17%	34%	7%	0%	0%	24%	10%	8%	76%	4%	0%	75%	55%	54%	1%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	80%	87%	100%	0%	0%	87%	82%	99%	93%	100%	100%	93%	82%	100%	99%
Level 4 - Not Lised											⊢I				
Fnergy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 5 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lovel C. Natilized		├ ────┤									⊢				
Level 6 - NOT Used			004												001
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

					Pe	ercentages fo	r Total On-Sit	e and Off-Site	e Parameters	- Alternative	2				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	12%	56%	0%	0%	0%	2%	2%	<1%	<1%	0%	0%	<1%	0%	0%	0%
Materials	0%	0%	95%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
On-Site Total	17%	56%	0%	100%	100%	0% 2%	0%		-1%	0%	100%	90%	0%	0%	0%
On-Site rotar	1270	30%	3370	100%	100%	270	270	170	<1/0	078	100%	30%	078	078	078
Level 2 - Transport.													-		
Energy	18%	7%	0%	0%	0%	16%	17%	<1%	6%	0%	0%	<1%	0%	0%	0%
Materials	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	0%	17%	<1%	<1%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	18%	7%	<1%	0%	0%	16%	17%	<1%	6%	<1%	0%	<1%	17%	<1%	<1%
Level 3 - Off-Site															
Energy	23%	3%	3%	0%	0%	15%	2%	25%	5%	25%	0%	1%	7%	10%	<1%
Materials	32%	20%	2%	0%	0%	47%	68%	66%	12%	71%	<1%	<1%	21%	35%	98%
Waste/Services	15%	15%	<1%	0%	0%	24%	10%	8%	/5%	4%	0%	/%	55%	54%	1%
Off Site Total	0% 70%	0%	0%	0%	0%	0%	0% 91%	0%	0%	0% 100%	0%	0%	0%	0% 100%	0%
Ojj-Site Totur	70%	35%	3%	0%	0%	80%	01%	99%	93%	100%	<1%	870	0270	100%	99%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 5 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site rotar	070	070	070	070	070	070	070	078	070	070	070	070	070	078	070
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

													All Lev	els - Parar	neters	Used, Exti	racted,	Emitted, o	r Generat	ed On-Si	ite - Alt	ernative 2										
			Eı	nergy	Ele	ectricity	A	ll Water	Potab	le Water	Grou	ndwater		CO2e		NO x		SO x	PN	М	Soli	d Waste	Ha	z. Waste	Ai	r Toxics	Me	ercurv		Lead		Dioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
								-		-																						
Totals				8,700,000.		2,200.		510,000.		5,700.		500,000.		200,000.		1,500		49.		30.		0		6,300.		3,300.		0		0		0
Energy																																
Diesel (on-site)	gal	8891	139	1,200,000.	0	(0 C	0	0	0	0	0	22.5	200,000.	0.17	1,500	0.0054	48.	. 0.0034	30.	0	0	0	0	0.0003	2.7	0	0	0	0	0	0
Gasoline (on-site use)	gal	237.6	124	29,000.	0	(0 0	0	0	0	0	0	19.6	4,700.	0.11	26	0.0045	1.1	1 0.0005	0.13	0	0	0	0	0.0003	0.071	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	103	0	0	(0 C	0	0	0	0	0	12	0	0.0001	(0 6E-06	0	0 8E-06	0	0	0	0	0	0.29	0	0	0	0	0	0	0
Diesel (off-site use)	gal	61837	0	0	0	(0 C	0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	25034	0	0	0	(0 C	0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	(0 C	0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	2200	3413	7,500,000.	1	2,200). C	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	2200	0	0	0	(0 C	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	2200	0	0	0	(0 C) 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtotal				8,700,000.		2,200.	•	0		0		0		200,000.		1,500	•	49.		30.		0		0		2.8		0		0		0
Materials	11-	0000							0														0						0			
	lb lb	8000	0	0	0				0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
HDPE Stool	ID Ib	600	0	0	0				0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Steel	di	19400	0	0	0				0	0	0	0		0	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Stalliess Steel		1000	0	0	0				0	0	0	0		0	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Gravel/salid	dry top	2048 71	0	0	0				0	0	0	0		0	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	tons	360	0	0	0				0	0	0	0		0	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Bentonite	ton	1	0	0	0				0	0	0	0		0	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Begenerated GAC	lbs	1566000	0	0	0				0	0	0	0		0	0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Bioiniection (Molasses)	lbs	2162200	0	0	0	(0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	994100	0	0	0	(0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Bioiniection (Vegetable Oil)	lbs	0	0	0	0	(0 0	0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	70728	0	0	0	(0 C) 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced	gal	25271.6	0	0	0	(0 C	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced	ccf	0	0	0	0	(0 C	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	504599	0	0	0	(0 1	500,000.	0	0	1	500,000.	. 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	5671	0	0	0	(0 C	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	5671	0	0	0	(0 C	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Used	gal x 1000	5671	0	0	0	(0 1	5,700.	1	5,700.	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	(0 1	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal				0		0	2	510,000.		5,700.		500,000.		0		0)	0)	0		0		0		0		0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	505000	0	0	0	(0 0	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	(0 0	0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	1	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	0	0	(0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6280	0	0	0	(0	0	0	0	0	0	0	0	(0 0	0		0	0	0	1	6,300.	0	0	0	0	0	0	0	0
Hazardous waste Disposal	ton	6280	0	0	0	(0	0	0	0	0	0	0		0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis	\$	ATA\00	0	0	0			, 0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
waste and Other Services Subtotal				0		0	,	U		0		0		0		0	,	0		0		0		6,300.		0		0		0		0
Other																																
On-site process emissions (HAPs)	lhs	3300	0	0	0	ſ	0 0		0	0	0			0	0			0) (0	0	0	0	Λ	1	3 200	0	0	0	0	0	0
On-site process emissions (FIAFs)	lbs CO2e	0	0	0	0	((0	0	0	0) 1	0	0	(0		0	0	0	0	0	0		0	0	0	0	0	0
Other Subtotal			0	0	0		2	0	0	0	Ū	0	1	0	0			n		0	0	0	0	0	0	3,300	0	0	Ū	0	0	0
5				5				3		5		0		0		Ŭ		v		5		0		v				•		0		

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

													All Lev	vels - Paran	neters	Used, Extra	acted, E	Emitted, or	r Genera	ted Off-Si	ite - Alt	ernative 2									
			E	Energy	Ele	ectricity	A	l Water	Potable W	/ater	Ground	dwater		CO2e		NO x		SO x	P	PM	Soli	d Waste	Ha	z. Waste	Air	Toxics N	Aercury		Lead	D	ioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor U	Jsed	Factor E	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000	gal x	x 1000	g	gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs	lbs		lbs		lbs
Totals				64,000,000.		1,800.		29,000.		0		0		12,000,000.		79,000.		60,000.		3,800.		7.9		0.014		350.	0.087		0.68		0.000057
	+																														
Energy		0001	0					0	0		0	0	0		0		0	0			0	0	0		0	0 0				0	
Diesel (on-site)	gal	227.6	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Natural gas (on site use)	gai	237.0	0	0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Diosol (off-site use)		61927	120	8 600 000				0	0	0	0	0	225	1 400 000	0 17	11 000	0.0054	220	0.0024	210	0	0	0	0	0 0002	10 0	0	0	0	0	0
Gasoline (off-site use)	gal	2503/	139	3 100 000	. 0			0	0	0	0	0	19.6	490,000.	0.17	2 800	0.0034	110	0.0034	210. 1/	0	0	0	0	0.0003	7.5 0	0	0	0	0	0
Natural gas (off-site use)		0	103	3,100,000		C		0	0	0	0	0	12.0	430,000.	0.001	2,000.	6F-06		8F-06	 	0	0	0	0	0.0003	,.5 0	0	0	0	0	0
On-site electricity use	MWh	2200	105	0		C		0	0	0	0	0	0	0	0.0001	0	01-00	0	01-00	0	0	0	0	0	0.25		0	0	0	0	0
Electricity transmission*	MWh	2200	410	900.000	0.12	260	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
Electricity production*	MWh	2200	7800	17.000.000	0.06	130	7.3	16.000.	0	0	0	0	800	1.800.000.	0.84	1.800.	6.7	15.000.	0.087	190.	0.0009	2.	0	0	0.017	37. 3F-06	0.0057	3F-05	0.068	9F-12	0.00000019
Eneray Subtotal	1			30.000.000.		390.	7.10	16.000.		0		0		3.700.000.	0.01	16.000.	011	15.000.		410.	0.0000	2.		0	0.017	64.	0.0057	01 00	0.068	51 11	0.000000019
										-		-		-,,										-							
Materials																															
PVC	lb	8000	22	180,000.	0.0006	4.5	0.0069	55.	0	0	0	0	4.1	33,000.	0.0048	38.	0.0076	61.	0.0012	9.6	2E-06	0.018	2E-06	0.013	0.0005	3.8 3E-07	0.0027	1E-07	0.001	7E-09	0.000055
HDPE	lb	600	31	19,000.	. 0.0003	0.15	0.0023	1.4	0	0	0	0	1.9	1,100.	0.0032	1.9	0.0041	2.5	0.0006	0.38	4E-07	0.00026	1E-06	0.0006	3E-06	0.002 3E-09	0.0000016	2E-09	0.0000014	1E-09	0.0000059
Steel	lb	19400	4.4	85,000.	. 0.0002	4.1	0.0006	12.	0	0	0	0	1.1	21,000.	0.0014	27.	0.0017	33.	0.0006	11.	0.0003	4.9	0	0	7E-05	1.3 1E-07	0.0019	3E-06	0.049	7E-12	0.0000013
Stainless Steel	lb	1000	11.6	12,000.	. 0.0006	0.56	0.0023	2.3	0	0	0	0	3.4	3,400.	0.0075	7.5	0.012	12.	0.0044	4.4	0.0006	0.62	0	0	0.0001	0.14 0	0	5E-07	0.00052	2E-12	0.000000022
Gravel/sand	ton	5648	55	310,000.	0.0027	15	0.13	730.	0	0	0	0	6.7	38,000.	0.033	190.	0.03	170.	0.004	23.	0	0	0	0	4E-07	0.0023 6E-11	0.0000036	1E-09	0.000068	2E-16	0.00000000000085
Cement Grout	dry-ton	71	4100	290,000.	. 0.13	9.2	0.41	29.	0	0	0	0	1800	130,000.	3.6	260.	2.1	150.	0.0063	0.45	0	0	0	0	0.058	4.1 6E-05	0.004	0.0001	0.0092	9E-11	0.00000006
Concrete	tons	369	793	290,000.	. 0.026	9.6	0.19	70.	0	0	0	0	335	120,000.	0.68	250.	0.41	150.	0.0044	1.6	3E-08	0.00001	0	0	0.011	4.1 1E-05	0.0037	2E-05	0.0089	2E-11	0.000000059
Bentonite	ton	1	55	55.	. 0.0027	0.0027	0.13	0.13	0	0	0	0	6.7	6.7	0.033	0.033	0.03	0.03	0.004	0.004	0	0	0	0	4E-07	0.00000041 6E-11	0.00000000064	1E-09	0.000000012	2E-16	0.00000000000000015
Regenerated GAC	lbs	1566000	9.6	15,000,000.	. 0.0004	690	0.0064	10,000.	0	0	0	0	2	3,100,000.	0.025	39,000.	0.015	23,000.	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Molasses)	lbs	2162200	1.31	2,800,000.	. 5E-06	11.	9E-05	200.	0	0	0	0	0.4	860,000.	0.003	6,500.	0.0026	5,600.	6E-05	130.	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	994100	1.87	1,900,000.	. 0	C	0 0	0	0	0	0	0	1.1	1,100,000.	0.0083	8,300.	0.0099	9,800.	0.0002	170.	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	0	6E-05	С	2E-05	0	0	0	0	0	3.51	0	0.0265	0	0.031	0	0.0017	0	0	0	0	0	0	0 0	0	0	0	0	0
Diesel Produced	gal	70728	18.5	1,300,000.	0.0006	42	0.0008	54.	0	0	0	0	2.7	190,000.	0.0064	450.	0.013	920.	0.0003	24.	4E-07	0.025	0	0	0.0001	8.5 5E-08	0.0034	2E-06	0.11	3E-14	0.000000021
Gasoline Produced	gal	25271.6	21	530,000.	. 0.0006	15	0.0008	20.	0	0	0	0	4.4	110,000.	0.008	200.	0.019	480.	0.0005	13.	4E-07	0.011	0	0	0.0002	4. 9E-08	0.0021	2E-06	0.056	3E-14	0.0000000078
Natural Gas Produced	cct	0	5.2	0	0.0003		8E-05	0	0	0	0	0	2.2	0	0.0037	0	0.0046	0	7E-05	0	0	0	0	0	6E-06	0 2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	504599	0	52,000	0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Potable Water Produced	gal x 1000	5671	9.2	52,000.	. 0.0004	2.5	0.021	120.	0	0	0	0	5	28,000.	0.0097	55.	0.0059	33.	0.016	91.	8E-07	0.0047	0	0	2E-05	0.085 8E-09	0.000047	7E-08	0.00038	1E-13	0.0000000057
Potable Water Lead	gal x 1000	50/1	7.4	42,000.	0.0006	3.7	0.0047	27.	0	0	0	0	0.5168	2,900.	0.0005	3.1	0.0043	25.	0E-05	0.32	6E-07	0.0033	0	0	0	0 3E-06	0.015	4E-08	0.00022	3E-14	0.0000000017
Other On-Site Water Used	gal x 1000	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
Materials Subtotal	5ai x 1000	0	0	23,000,000	, 0	<u><u></u> <u></u> <u></u> <u></u></u>	, 0	11 000	0	0	0	0 0	0	5,700,000	0	55 000	0	40 000	0	0 <u>1</u> 80	0	56	0	0.014	0	26	0 032	0	0	0	0,00056
				23,000,000.		010.		11,000.						3,700,000.		33,000.		+0,000.		400.		5.0		0.014		20.	0.033		0.24		0.0000000
Waste and Other Services																															
Off-site waste water treatment	gal x 1000	505000	3.7	1,900,000	0.0002	91	0.0008	420	0	0	0	0	3	1.500.000	0.0061	3.100	0.0029	1.500	8E-05	40	5E-07	0.23	0	0	0.0001	61. 8F-08	0.041	6E-07	0.32	1E-12	0.00000051
Solid Waste Generation	ton	0	0		0 0	01	0 0	0	0	0	0	0	0	0	0	0,100	0	0	0	0	0	0	0	0	0	0 0	0	0107	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	0	0.15	0	0	0	0	0	25	0	0.14	0	0.075	0	0.4	0	8E-06	0	0	0	0.0014	0 1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	6280	0	0	0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Hazardous Waste Disposal	ton	6280	176	1,100,000.	0.0085	53.	0.165	1,000.	0	0	0	0	27.5	170,000.	0.154	970.	0.0825	520.	0.44	2,800.	9E-06	0.055	0	0	0.0015	9.7 1E-06	0.0067	8E-06	0.053	1E-11	0.00000083
Laboratory Analysis	\$	919700	8.8	8,100,000	. 0.0005	460	0.0006	520.	0	0	0	0	1.3	1,200,000.	0.0045	4,100.	0.003	2,800.	0.0001	100.	0	0	0	0	0.0002	190. 0	0	0	0	0	0
Waste and Other Services Subtotal	1			11,000,000.		600.		1,900.		0		0		2,900,000.		8,200.		4,800.		2,900.		0.29		0		260.	0.048		0.37		0.00000059
Other																															
On-site process emissions (HAPs)	lbs	3300	0	0	0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Other Subtotal	1			0		0		0		0		0		0		0		0		0		0		0		0	0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

							All Levels - T	otal On-Site a	nd Off-Site Pa	arameters - Alt	ernative 2						
		[Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity															
		Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
								(0.000.000					6 000		0.007		
Totals			72,000,000.	4,000.	540,000.	5,700.	500,000.	13,000,000.	80,000.	60,000.	3,800.	7.9	6,300.	3,700.	0.087	0.68	0.000057
Energy																	
Diesel (on-site)	gal	8891	1 200 000	0	0	0	0	200.000	1 500	48	30	0	0	27	0	0	0
Gasoline (on-site use)	gal	237.6	29,000	0	0	0	0	4 700	26	40.	0.13	0	0	0.071	0	0	0
Natural gas (on-site use)		0	25,000.	0	0	0	0	4,700.	0		0.15	0	0	0.071	0	0	0
Diesel (off-site use)	gal	61837	8 600 000	0	0	0	0	1 400 000	11 000	330	210	0	0	19	0	0	0
Gasoline (off-site use)	gal	25034	3,100,000	0	0	0	0	490,000	2,800	110	14	0	0	7.5	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	,.5	0	0	0
On-site electricity use	MWh	2200	7,500,000.	2.200.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	2200	900,000	260.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	2200	17.000.000.	130.	16,000.	0	0	1.800.000.	1.800.	15.000.	190.	2.	0	37.	0.0057	0.068	0.00000019
Energy Subtotal		2200	38.000.000.	2.600.	16.000.	0	0	3.900.000.	17.000.	15,000.	440.	2.	0	66.	0.0057	0.068	0.000000019
				,000.	20,000.			-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			440.				0.0007	5.000	
Materials																	
PVC	lb	8000	180.000.	4.5	55.	0	0	33.000.	38.	61.	9.6	0.018	0.013	3.8	0.0027	0.001	0.000055
HDPE	lb	600	19.000.	0.15	1.4	0	0	1.100.	1.9	2.5	0.38	0.00026	0.0006	0.002	0.0000016	0.0000014	0.00000059
Steel	lb	19400	85.000.	4.1	12.	0	0	21.000.	27.	33.	11.	4.9	0	1.3	0.0019	0.049	0.0000013
Stainless Steel	lb	1000	12.000.	0.56	2.3	0	0	3.400.	7.5	12.	4.4	0.62	0	0.14	0	0.00052	0.0000000022
Gravel/sand	ton	5648	310.000.	15.	730.	0	0	38.000.	190.	170.	23.	0	0	0.0023	0.0000036	0.0000068	0.00000000000085
Cement Grout	dry-ton	71	290.000.	9.2	29.	0	0	130.000.	260.	150.	0.45	0	0	4.1	0.004	0.0092	0.000000006
Concrete	tons	369	290,000.	9.6	70.	0	0	120,000.	250.	150.	1.6	0.00001	0	4.1	0.0037	0.0089	0.0000000059
Bentonite	ton	1	55.	0.0027	0.13	0	0	6.7	0.033	0.03	0.004	0	0	0.00000041	0.00000000064	0.000000012	0.000000000000000015
Regenerated GAC	lbs	1566000	15,000,000.	690.	10,000.	0	0	3,100,000.	39,000.	23,000.	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	2162200	2,800,000.	11.	200.	0	0	860,000.	6,500.	5,600.	130.	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	994100	1,900,000.	0	0	0	0	1,100,000.	8,300.	9,800.	170.	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	70728	1,300,000.	42.	54.	0	0	190,000.	450.	920.	24.	0.025	0	8.5	0.0034	0.11	0.000000021
Gasoline Produced	gal	25271.6	530,000.	15.	20.	0	0	110,000.	200.	480.	13.	0.011	0	4.	0.0021	0.056	0.0000000078
Natural Gas Produced	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	504599	0	0	500,000.	0	500,000.	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	5671	52,000.	2.5	120.	0	0	28,000.	55.	33.	91.	0.0047	0	0.085	0.000047	0.00038	0.0000000057
Potable Water Transported	gal x 1000	5671	42,000.	3.7	27.	0	0	2,900.	3.1	25.	0.32	0.0033	0	0	0.015	0.00022	0.0000000017
Potable Water Used	gal x 1000	5671	0	0	5,700.	5,700.	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal			23,000,000.	810.	520,000.	5,700.	500,000.	5,700,000.	55,000.	40,000.	480.	5.6	0.014	26.	0.033	0.24	0.000056
Waste and Other Services			H 1		+ +	+					+ +				H 1		
Off-site waste water treatment	gal y 1000	505000	1 900 000	01	420	0	0	1 500 000	3 100	1 500	40	0.23	0	61	0.041	0.32	0.0000051
Solid Waste Generation	ton	0	1,500,000:	0	420:	0	0	1,500,000:	5,100:	1,500:		0.25	0	01.	0.041	0.52	0.00000031
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6280	0	0	0	0	0	0	0	0	0	0	6.300	0	0	0	0
Hazardous Waste Disposal	ton	6280	1,100,000	53	1 000	0	0	170,000	970	520	2 800	0.055	0,500.	97	0.0067	0.053	0.00000083
Laboratory Analysis	Ś	919700	8,100,000	460	520	0	0	1,200,000	4 100	2.800	100	0.000	0	190	0.0007	0.000	0.0000000000000000000000000000000000000
Waste and Other Services Subtotal	Ŷ	515700	11,000,000	600	1.900	0	0	2,900,000	<i>R 200</i>	<u> 2,000.</u> <u> 4 800</u>	2 900	0.29	6 300	260	0.048	0.37	0.0000059
			11,000,000.		1,500.		V	2,500,000.	0,200.	4,000.	2,500.	0.25	0,300.	200.	0.048	0.37	0.00000033
Other						1						1	1				
On-site process emissions (HAPs)	lbs	3300	0	0	0	0	0	0	0	0	0	0	0	3.300.	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	3,300.	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

Green Remediation Footprint Analysis Spreadsheets

												Le	vel 1 (C	On-Site) Pa	ramete	rs Used, E	xtracte	d, Emitted	l, or Gen	nerated Or	n-Site -	Alternativ	e 2									
			F	nergy	Fle	ectricity	Δ	ll Water	Potab	le Water	Groun	ndwater		CO2e				SO x		PM	Soli	id Waste	Ha	z. Waste	Ai	r Toxics	N	lercury		Lead	р	Jioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				8,700,000.		2,200.		510,000.		5,700.		500,000.		200,000.		1,500.		49.		30.		0		6,300.		3,300).	0		0		0
Energy																																
Diesel (on-site)	gal	8891	139	1,200,000.	0	C	0 0	0	0	0	0	0	22.5	200,000.	0.17	1,500	. 0.0054	48.	. 0.0034	30.	0	0	0	0	0.0003	2.	7 0	C	0	0	0	0
Gasoline (on-site use)	gal	237.6	124	29,000.	0	0		0	0	0	0	0	19.6	4,700.	0.11	26	. 0.0045	1.1	0.0005	0.13	0	0	0	0	0.0003	0.07	1 0	C	0	0	0	0
Natural gas (on-site use)	ccf	0	103	0	0			0	0	0	0	0	12	0	0.0001	(0 6E-06		0 8E-06	0	0	0	0	0	0.29				0	0	0	0
Diesel (off-site use)	gai	0	0	0	0			0	0	0	0	0	0	0	0					0	0	0	0	0	0				0	0	0	0
Natural gas (off site use)	gai	0	0	0	0			0	0	0	0	0	0	0	0	(0	0	0	0	0	0				0	0	0	0
On-site electricity use		2200	3/13	7 500 000	1	2 200		0	0	0	0	0	0	0	0	(0	0	0	0	0	0				0	0	0	0
Electricity transmission*	MWh	0	0	,500,000. 0		2,200		0	0	0	0	0	0	0	0					0	0	0		0	0					0	0	0
Electricity production*	MWh	0	0	0	0			0	0	0	0	0	0	0	0			0		0	0	0	0	0	0				0	0	0	0
Energy Subtotal		0	0	8.700.000.	0	2.200.		0	0	0	0	0		200.000.	0	1.500.	, ,	49.		30.	0	0	0	<u>0</u>		2.8	8	0	0	0	0	0
				0,700,000																												
Materials																																
PVC	lb	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
HDPE	lb	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Steel	lb	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Stainless Steel	lb	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Gravel/sand	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Cement Grout	dry-ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Concrete	tons	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Bentonite	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Regenerated GAC	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Diesel Produced	gal	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Gasoline Produced	gal	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Natural Gas Produced	ccf	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Groundwater Extracted On-site	gal x 1000	504599	0	0	0	C	0 1	500,000.	0	0	1	500,000.	0	0	0	0	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	0	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Potable Water Transported	gal x 1000	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	0	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Potable Water Used	gal x 1000	56/1	0	0	0		1	5,700.	1	5,700.	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0 0		0	0	0	0
Other On-Site Water Used	gai x 1000	U	0	0	0		1	U E10.000	0	0 5 700	0	500.000	0	0	0	(0		0	0	0	0	0	0	0		0 0		0	0	0	0
				0		0		510,000.		5,700.		500,000.		0		0		0		0		0		0				0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	Ο	0	0	0	ſ		0	0	0	0	0	0	0	0					0	0		0	0	0		0 0		0	Λ	0	0
Solid Waste Generation	ton	0	0	0	0			0	0	0	0	0	0	0	0					0	1	0		0	0					0	0	0
Solid Waste Disposal	ton	0	0	0	0	r c			0	0	0	0	0	0	0					0	1	0	0	0	0		0 0		0	0	0	0
Hazardous Waste Generation	ton	6280	0	0	0	r c		0	0	0	0	0	0	0	0	C				0	0	0	1	6.300	0		0 0			0	0	0
Hazardous Waste Disposal	ton	0	0	0	0	(0	0	0	0	0	0	0	0	() 0	0		0	0	0	0	0	0		0 0	0	0	0	0	0
Laboratory Analysis	\$	0	0	0	0	C		0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0		0 0	C	0	0	0	0
Waste and Other Services Subtotal				0		0		0		0		0		0		0		0		0		0		6,300.			0	0		0		0
Other																																
On-site process emissions (HAPs)	lbs	3300	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	1	3,300	0. 0	C	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	C	0 0	0	0	0	0	0	1	0	0	C	0 0	C	0 0	0	0	0	0	0	0	_	0 0	C	0	0	0	0
Other Subtotal				0		0		0		0		0		0		0		0		0		0		0		3,300).	0		0		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Le	vel 1 (0	On-Site) Pa	ramete	ers Used, E	Extracte	d, Emitted	, or Gen	nerated Of	ff-Site -	Alternativ	e 2									
			E	nergy	El	ectricity	А	All Water	Potal	ble Water	Gro	undwater		CO2e		NOx		SO x		PM	Soli	d Waste	Ha	z. Waste	Air	Toxics	Me	ercurv		Lead	D	vioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0		(0	0		0		0		0		()	0		0		0		0		0		0		0		0
Energy		0001	0				0																0		0		0		0		0	
Diesel (on-site)	gal	8891	0	(0	0	0		0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gai	237.6	0	(0	0	0						0		0	0	0	0	0	0	0	0	0	0	0	0	0
Diosol (off-site use)		0	120							0	0	0			0 17			0	0 0024	0	0	0	0	0	0 0002	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	139	(0	0	0	19.6		0.17		0.0034	0	0.0034	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Natural gas (off-site use)	gai	0	103	(0	0	0	19.0		0.11		0.0043	0	8E-06	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
On-site electricity use	MWh	2200	103	(0	0	0			0.0001			0		0	0	0	0	0	0.29	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	410	(0 0 12					0	0	0		0				0		0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	7800	(0.06		0 7.3			0	0	0	800	0	0.84		6.7	0	0.087	0	0.0009	0	0	0	0.017	0	3E-06	0	3E-05	0	9F-12	0
Enerav Subtotal			,000	0	0.00		0	0	0	0	5	0	000	0	0.04	(0.7	<u> </u>	0.007	0	0.0005	<u> </u>	5	0	0.017	0	02 00	0	02 00	0		0
																								-								
Materials																																
PVC	lb	0	22	(0.0006		0 0.0069) (0 0	0	0	0	4.1	C	0.0048	(0.0076	0	0.0012	0	2E-06	0	2E-06	0	0.0005	0	3E-07	0	1E-07	0	7E-09	0
HDPE	lb	0	31	(0.0003		0 0.0023	3 (0 0	0	0	0	1.9	C	0.0032	(0.0041	0	0.0006	0	4E-07	0	1E-06	0	3E-06	0	3E-09	0	2E-09	0	1E-09	0
Steel	lb	0	4.4	(0.0002		0 0.0006	5 C	0 0	0	0	0	1.1	C	0.0014	(0.0017	0	0.0006	0	0.0003	0	0	0	7E-05	0	1E-07	0	3E-06	0	7E-12	0
Stainless Steel	lb	0	11.6	(0.0006		0 0.0023	3 (0 0	0	0	0	3.4	0	0.0075	(0.012	0	0.0044	0	0.0006	0	0	0	0.0001	0	0	0	5E-07	0	2E-12	0
Gravel/sand	ton	0	55	(0.0027		0 0.13	3 (0 0	0	0	0	6.7	C	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Cement Grout	dry-ton	0	4100	(0.13		0 0.41	1 (0 0	0	0	0	1800	C	3.6	(0 2.1	0	0.0063	0	0	0	0	0	0.058	0	6E-05	0	0.0001	0	9E-11	0
Concrete	tons	0	793	(0.026		0 0.19	9 (0 0	0	0	0	335	C	0.68	(0.41	0	0.0044	0	3E-08	0	0	0	0.011	0	1E-05	0	2E-05	0	2E-11	0
Bentonite	ton	0	55	(0.0027		0 0.13	3 (0 0	0	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Regenerated GAC	lbs	0	9.6	(0.0004		0 0.0064	4 C	0 0	0	0	0	2	0	0.025	(0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	1.31	(5E-06		0 9E-05	5 (0 0	0	0	0	0.4	C	0.003	(0.0026	0	6E-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	(0 0		0 0) (0 0	0	0	0	1.1	0	0.0083	(0.0099	0	0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	(0 6E-05		0 2E-05	5 0	0 0	0	0	0	3.51	0	0.0265	(0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	18.5	(0.0006		0 0.0008	3 (0 0	0	0	0	2.7	0	0.0064	(0.013	0	0.0003	0	4E-07	0	0	0	0.0001	0	5E-08	0	2E-06	0	3E-14	0
Gasoline Produced	gal	0	21	(0.0006		0 0.0008	3 (0 0	0	0	0	4.4	0	0.008	(0.019	0	0.0005	0	4E-07	0	0	0	0.0002	0	9E-08	0	2E-06	0	3E-14	0
Natural Gas Produced		0	5.2	(0.0003		0 8E-05			0	0	0	2.2	0	0.0037		0 0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	504599	0	(0	0	0		0	0 0007			0	0 0 01 0	0		0	0	0	0	0	0	0		0	0	0
Potable Water Produced	gal x 1000	0	9.2	(0.0004		0 0.021			0	0	0	5		0.0097		0.0059	0	0.016	0	8E-07	0	0	0	2E-05	0	8E-09	0	7E-08	0	1E-13	0
Potable Water Lood	gal x 1000	5671	7.4		0.0006		0 0.0047			0	0		0.5108		0.0005		0.0043	0	02-05	0	02-07	0	0	0	0	0	52-06	0	46-08	0	56-14	0
Other On-Site Water Used	gal x 1000	0	0	(0	0							0		0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal	501 X 1000	0	0				0		, 0	0	0	0	, 0	0	, 0	()	<u> </u>		0	0	<u> </u>	0	<u>n</u>	0	0	0	<u> </u>	0	<u> </u>	0	0
						,	-					ľ		Ŭ										<u> </u>		y		y		<u> </u>		
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	0	3.7	(0.0002		0 0.0008	3 (0	0	0	0) 3	0	0.0061	(0.0029	0	8E-05	0	5E-07	0	0	0	0.0001	0	8E-08	0	6E-07	0	1E-12	0
Solid Waste Generation	ton	0	0	(0 0		0 0) (0 0	0	0	0	0 0	C	0 0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	160	(0.0077		0 0.15	5 (0 0	0	0	0	25	C	0.14	(0 0.075	0	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	6280	0	(0 0		0 0) (0 0	0	0	0	0 0	0	0 0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	0	176	(0.0085		0 0.165	5 (0 0	0	0	0	27.5	0	0.154		0.0825	0	0.44	0	9E-06	0	0	0	0.0015	0	1E-06	0	8E-06	0	1E-11	0
Laboratory Analysis	\$	0	8.8	(0.0005		0 0.0006	6 (0 0	0	0	0	1.3	0	0.0045	(0.003	0	0.0001	0	0	0	0	0	0.0002	0	0	0	0	0	0	0
Waste and Other Services Subtotal				0			0	0		0		0		0		6)	0		0		0		0		0		0		0		0
Other																																
On site process emissions (UADs)	lbc	2200		,			0														0		0	0	0		0				0	
On-site process emissions (CHCs)		3300	0	(0	0							0		0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtet	IDS CO2e	0	0						, 0	0	0		, 0		, 0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				0		<u> </u>		0		0		0		0		Ĺ		0		0		0		U		U		0		0		

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

								Level 1 (On-Sit	e) Total On-Sit	e and Off-Site	e Parameters -	Alternative 2					
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals			8,700,000.	2,200.	510,000.	5,700.	500,000.	200,000.	1,500.	49.	30.	0	6,300.	3,300.	0	0	0
Energy																	
Diesel (on-site)	gal	8891	1,200,000.	0	0	0	0	200,000.	1,500.	48.	30.	0	0	2.7	0	0	0
Gasoline (on-site use)	gal	237.6	29,000.	0	0	0	0	4,700.	26.	1.1	0.13	0	0	0.071	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	2200	7,500,000.	2,200.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtotal	1		8,700,000.	2,200.	0	0	0	200,000.	1,500.	49.	30.	0	0	2.8	0	0	0
Materials			_														
PVC	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HDPE	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steel	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stainless Steel	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gravel/sand	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement Grout	dry-ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	tons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bentonite	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regenerated GAC	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	504599	0	0	500,000.	0	500,000.	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable water Used	gal x 1000	5671	0	0	5,700.	5,700.	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gai x 1000	0	0	0	510,000	5 700	500.000	0	0	0	0	0	0	0	0	0	0
			0	0	510,000.	5,700.	500,000.	0	0	0	0	0	U	0	U	0	0
Waste and Other Services			+ +				+ +		+ +		+ +				+ +		
Off-site waste water treatment	gal v 1000	0						0	0			0					0
Solid Waste Generation	gai X 1000	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6280	0	0	0	0	0	0	0	0	0	0	6 3 0 0	0	0	0	0
Hazardous Waste Disposal	ton	0200	0	0	0	0	0	0	0	0	0	0	0,300.	0	0	0	0
Laboratory Analysis	Ś	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtotal	1		0	0	0	0	0	0	0	0	0	0	6,300.	o o	0	0	0
Other																	
On-site process emissions (HAPs)	lbs	3300	0	0	0	0	0	0	0	0	0	0	0	3,300.	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	3,300.	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

Green Remediation Footprint Analysis Spreadsheets

												Lev	el 2 (Tr	ansport.) F	Parame	ters Used,	Extract	ed, Emitte	ed, or Ge	enerated (On-Site	- Alternat	ive 2									
			E	nergy	El	ectricity	A	All Water	Pota	ble Water	Gro	undwater		CO2e		NO x		SO x		PM	Sol	id Waste	На	z. Waste	Ai	r Toxics	м	lercurv		Lead		Dioxins
		Quantity	Conv.	01	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
								_																								
Totals				0			0	0		0)	0		0		0		0)	0		0		0		0		0		0		0
																																
Energy																																
Diesel (on-site)	gal	0	139	(0 0		0 0	0 0	0 0	(0 0	0	22.5	C	0.17	(0.0054	C	0.0034	0	0 0	0	0	0	0.0003	C	0	0	0 0	0	0	0
Gasoline (on-site use)	gal	0	124	(0 0		0 0		0 0	(0 0	0	19.6	C	0.11	(0.0045	0	0.0005	0	0 0	0	0	0	0.0003	C	0 0	0	0 0	0	0	0
Natural gas (on-site use)	ccf	0	103	(0 0			(0	12	0	0.0001	(0 6E-06	0	0 8E-06	0	0 0	0	0	0	0.29	0	0 0	0		0	0	0
Diesel (off-site use)	gal	61837	0	((0	0	0	0 0	(0		0		0	0	0	0		0	0		0	0	0
Gasoline (off-site use)	gai	25034	0	(0	0	0						0		0	0	0	0			0		0	0	0
Natural gas (off-site use)		0	2412	((0	0	0		(0		0		0	0	0	0			0		0	0	0
Chestricity transmission*	NAVA/b	2200	3413									0	0	0				0		0		0	0	0	0			0		0	0	0
Electricity transmission*		2200	0									0	0							0		0	0	0	0					0	0	0
Electricity production		0	0									0	0		, 0			0		0	, 0	0	0	0	0		, 0			0	0	0
				0				0		0		0		0				0	,	0				0		0		0		0		<u> </u>
Materials								-																								
PVC	lb	0	0	(0 0			(0	0	0		(0		0	0	0	0		0	0		0	0	0
HDPF	lb	0	0	((0	0					0		0		0	0	0	0					0	0	0
Steel	lb	0	0	(0 0			(0	0			(0		0		0	0	0	0					0	0	0
Stainless Steel	lb	0	0	(0 0) 0	(0	0	0		($\frac{1}{2}$	0		0		0	0	0	0	0		0		0	0	0
Gravel/sand	ton	0	0	(0 0) 0	($\frac{1}{2}$	0	0	0	0	(0 0	0		0) 0	0	0	0	0	0	0	0		0	0	0
Cement Grout	dry-ton	0	0	(0 0		0 0		0 0	(0 0	0	0	0	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	0	0	0) 0	0	0	0
Concrete	tons	0	0	(0 0		0 0	D C	0 0	(0 0	0	0	0	0 0	(0 0	C	0 0	0) 0	0	0	0	0	C	0	0) 0	0	0	0
Bentonite	ton	0	0	(0 0		0 0	D C	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0) 0	0	0	0	0	C	0	C) 0	0	0	0
Regenerated GAC	lbs	0	0	(0 0		0 0	D C	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	C) 0	0	0	0
Bioinjection (Molasses)	lbs	0	0	(0 0		0 0	0 0	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	C) 0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	(0 0		0 0	D C	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0) 0	0	0	0	0	C	0 0	C) 0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	(0 0		0 0	D C	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	C) 0	0	0	0
Diesel Produced	gal	0	0	(0 0		0 0	D 0	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	C	0 0	0	0	0
Gasoline Produced	gal	0	0	(0 0		0 0	0 0	0 0	(0 0	0	0	0	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	0	0 0	0	0	0
Natural Gas Produced	ccf	0	0	(0 0		0 0	0 0	0 0	(0 0	0	0	0	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	0	0 0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	(0 0		0 1	1 0	0 0	() 1	0	0	0	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	0	0 0	0	0	0
Potable Water Produced	gal x 1000	0	0	(0 0		0 0	0 0	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0	C	0 0	0	0	0
Potable Water Transported	gal x 1000	5671	0	(0 0		0 0	0 0	0 0	(0 0	0	0	C	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0 0	0	0 0	0	0	0
Potable Water Used	gal x 1000	0	0	(0 0		0 1	1 C) 1	(0 0	0	0	0	0 0	(0 0	C	0 0	0	0 0	0	0	0	0	C	0	0	0 0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	(0 0		0 1	1 0	0 0	(0 0	0	0	0	0 0	(0 0	0	0 0	0	0 0	0	0	0	0	C	0 0	0	0 0	0	0	0
Materials Subtotal				0			0	0		0		0		0		0		0	,	0		0		0		0		0		0		0
Wests and Other Construct																																
waste and Other Services							0									ļ,																
Off-site waste water treatment	gal x 1000	0	0	((0	0	0		(0		0		0	0	0	0			0		0	0	0
Solid Waste Dispess	ton	0	0	((0	0		0	(0		0		0	0	0	0			0		0	0	0
Solid Waste Disposal	ton	0	0							(0	0			(0		0	0	0	0					0	0	0
Hazardous Waste Disposal	ton	0	0	(((0	0							0		0		0	0					0	0	0
Laboratory Analysis	ć	0	0	(((0	0							0			0	0	0					0	0	0
Waste and Other Services Subtotal	ڔ	0	0										0		, 0					0	, 0	0	0	0	0		, 0	0	, 0	0	0	0
				0				0		0		0		0				0		0		0		0		0		0		0		0
Other																																
On-site process emissions (HAPs)	lbs	0	0	() (0 0) 0	ſ) (0	0	0	0	(0	0	0	n) 0	0	0	0	1	ſ	0	n) 0	n	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	(0 0) 0	(0	1	0		(0		0		0	0	0	0	0	0	0		0	0	0
Other Subtotal		~	Ū				0	0		0		0		n	5	0				0	5	n	5	0	5	n	Ū	0		n	5	0
												-								•				2				Ū.				

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Leve	el 2 (Tr	ansport.) P	arame	ters Used,	Extract	ed, Emitte	d, or Ge	enerated C)ff-Site	- Alternati	ive 2									
			E	inergy	Ele	ectricity	A	ll Water	Potab	ole Water	Gro	undwater		CO2e		NO x		SO x	1	PM	Soli	d Waste	Ha	az. Waste	Ai	r Toxics	Me	ercury	L	ead	D	ioxins
		Quantity	Conv.	0,	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				13,000,000.		260.	•	27.		0		0		1,900,000.		14,000.		470.		220.		0.0033		0		27.		0.015		0.00022		0.0000000017
-																																
Energy		0	0	0			0 0	0	0		0		0		0			0		0	0	0				0	0	0		0	0	0
Diesel (on-site)	gal	0	0	0	0			0	0	(0	0	0	0	0	(0	0	0	0	0	0	0	0		0	0	0		0	0	0
Natural gas (on-site use)	gai	0	0	0	0			0	0	(0	0	0	0	0	(0	0	0	0	0	0	0	0		0	0	0		0	0	0
Diesel (off-site use)	σal	61837	130	8 600 000	0			0	0	(0	0	22.5	1 400 000	0 17	11 000	0.0054	330	0.0034	210	0	0	0	0	0 0003	10	0	0		0	0	0
Gasoline (off-site use)	gal	25034	133	3 100 000	0	(0	0		0	0	19.6	490,000.	0.17	2 800	0.0034	110	0.0034	14	0	0	0	0	0.0003	7.5	0	0		0	0	0
Natural gas (off-site use)		23034	103	3,100,000. 0	0			0	0	C	0	0	19.0	490,000.	0.001	2,800	6F-06	110.	8F-06	14. 0	0	0	0	0	0.0003	0.5	0	0		0	0	0
On-site electricity use	MWh	0	105	0	0	(0	0		0	0	0	0	0.0001	(0	0	0	0	0	0	0	0.25	0	0	0		0	0	0
Electricity transmission*	MWh	2200	410	900.000	0.12	260	0	0	0	(0	0	0	0	0	(0	0	0	0	0	0	0	0		0	0	0		0	0	0
Electricity production*	MWh	0	7800	0	0.06	(0 7.3	0	0		0	0	800	0	0.84	(6.7	0	0.087	0	0.0009	0	0	0	0.017	0	3E-06	0	3E-05	0	9E-12	0
Enerav Subtota	1			13.000.000.	0.00	260.		0		0		0		1.900.000.	0.01	14.000.	017	440.		220.	0.0000	0		0	0.017	27.	01 00	0		0	01 11	0
	-						-									_ ,																
Materials																																
PVC	lb	0	22	0	0.0006	(0 0.0069	0	0	C	0	0	4.1	0	0.0048	(0.0076	0	0.0012	0	2E-06	0	2E-06	0	0.0005	0	3E-07	0	1E-07	0	7E-09	0
HDPE	lb	0	31	0	0.0003	(0 0.0023	0	0	C	0	0	1.9	0	0.0032	(0.0041	0	0.0006	0	4E-07	0	1E-06	0	3E-06	0	3E-09	0	2E-09	0	1E-09	0
Steel	lb	0	4.4	0	0.0002	(0.0006	0	0	C	0	0	1.1	0	0.0014	(0.0017	0	0.0006	0	0.0003	0	0	0	7E-05	0	1E-07	0	3E-06	0	7E-12	0
Stainless Steel	lb	0	11.6	0	0.0006	(0.0023	0	0	C	0	0	3.4	0	0.0075	(0.012	0	0.0044	0	0.0006	0	0	0	0.0001	0	0	0	5E-07	0	2E-12	0
Gravel/sand	ton	0	55	0	0.0027	(0 0.13	0	0	C	0	0	6.7	0	0.033	C	0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Cement Grout	dry-ton	0	4100	0	0.13	(0 0.41	0	0	C	0	0	1800	0	3.6	(2.1	0	0.0063	0	0	0	0	0	0.058	0	6E-05	0	0.0001	0	9E-11	0
Concrete	tons	0	793	0	0.026	(0 0.19	0	0	C	0	0	335	0	0.68	C	0.41	0	0.0044	0	3E-08	0	0	0	0.011	0	1E-05	0	2E-05	0	2E-11	0
Bentonite	ton	0	55	0	0.0027	(0 0.13	0	0	C	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Regenerated GAC	lbs	0	9.6	0	0.0004	(0.0064	0	0	C	0	0	2	0	0.025	0	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	1.31	0	5E-06	(0 9E-05	0	0	C	0	0	0.4	0	0.003	0	0.0026	0	6E-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	0	0	(0 0	0	0	C	0	0	1.1	0	0.0083	(0.0099	0	0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	0	6E-05	(0 2E-05	0	0	C	0	0	3.51	0	0.0265	(0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	18.5	0	0.0006	(0.0008	0	0	C	0	0	2.7	0	0.0064	(0.013	0	0.0003	0	4E-07	0	0	0	0.0001	0	5E-08	0	2E-06	0	3E-14	0
Gasoline Produced	gal	0	21	0	0.0006	(0.0008	0	0	0	0	0	4.4	0	0.008	(0.019	0	0.0005	0	4E-07	0	0	0	0.0002	0	9E-08	0	2E-06	0	3E-14	0
Natural Gas Produced	cct	0	5.2	0	0.0003	(0 8E-05	0	0	0	0	0	2.2	0	0.0037	(0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0	(0 0	0	0		0	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	9.2	0	0.0004	(0.021	0	0		0	0	5	0	0.0097	(0.0059	0	0.016	0	8E-07	0	0	0	2E-05	0	8E-09	0	/E-08	0	1E-13	0
Polable Water Transported	gal x 1000	56/1	7.4	42,000.	0.0006	3.	0.0047	27.	0	C	0	0	0.5168	2,900.	0.0005	3.1	0.0043	25.	6E-05	0.32	6E-07	0.0033	0	0	0	0	3E-06	0.015	4E-08	0.00022	3E-14	0.0000000017
Other On-Site Water Used		0	0	0	0			0	0	(0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Materials Subtota	gai x 1000	0	0	12 000	0	27	7	27	0		0		0	2 000	0	21	0) 25	0	0 22	0	0	0		0	0	0	0.015		0 00022	0	0 000000017
	<u>'</u>			42,000.		5.7		27.		0				2,300.		5.1		23.		0.52		0.0055		0		0		0.015		0.00022		0.00000000017
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	0	37	0	0.0002	(0.0008	0	0		0	n	3	0	0.0061	ſ	0.0029	0	8F-05	0	5E-07	0	0	0	0.0001	n	8E-08	0	6F-07	0	1F-12	0
Solid Waste Generation	ton	0	0	0	0.0002	(0	0	(0	0	0	0	0.0001	(0.0029	0	0	0	0	0	0	0	0.0001	0	0 10	0	0	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	(0 0.15	0	0	(0	0	25	0	0.14	(0.075	0	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0	0	0	0	(0 0	0	0	C	0	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	0	176	0	0.0085	(0 0.165	0	0	0	0	0	27.5	0	0.154	(0.0825	0	0.44	0	9E-06	0	0	0	0.0015	0	1E-06	0	8E-06	0	1E-11	0
Laboratory Analysis	\$	0	8.8	0	0.0005	(0.0006	0	0	C	0	0	1.3	0	0.0045	(0.003	0	0.0001	0	0	0	0	0	0.0002	0	0	0	0	0	0	0
Waste and Other Services Subtota	1			0		0)	0		0		0		0		0		0		0		0		0		0		0		0		0
Other																																
On-site process emissions (HAPs)	lbs	0	0	0	0	(0 0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	(0 0	0	0	C	0	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtota	/			0		0)	0		0		0		0		0		0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water
| | | | | | | | Le | vel 2 (Transpo | rt.) Total On-S | ite and Off-Si | ite Parameters | - Alternative 2 | 2 | | | | |
|-----------------------------------|------------|------------------|-------------|-------------|------------|---------------|-------------|----------------|-----------------|----------------|----------------|-----------------|------------|------------|----------|----------|--------------|
| | | | Energy | Electricity | All Water | Potable Water | Groundwater | CO2e | NO x | SO x | PM | Solid Waste | Haz. Waste | Air Toxics | Mercury | Lead | Dioxins |
| | | Quantity
Used | Used | Used | Used | Used | Extracted | Emitted | Emitted | Emitted | Emitted | Generated | Generated | Emitted | Released | Released | Released |
| | | | Mbtu | MWh | gal x 1000 | gal x 1000 | gal x 1000 | lbs | lbs | lbs | lbs | tons | tons | lbs | lbs | lbs | lbs |
| | | | | | | | | | | | | | | | | | |
| Totals | | | 13,000,000. | 260. | 27. | 0 | 0 | 1,900,000. | 14,000. | 470. | 220. | 0.0033 | 0 | 27. | 0.015 | 0.00022 | 0.0000000017 |
| | | | | | | | | | | | | | | | | | |
| Energy | | | | | | | | | | | | | | | | | |
| Diesel (on-site) | gal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gasoline (on-site use) | gal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Natural gas (on-site use) | ccf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diesel (off-site use) | gal | 61837 | 8,600,000. | 0 | 0 | 0 | 0 | 1,400,000. | 11,000. | 330. | 210. | 0 | 0 | 19. | 0 | 0 | 0 |
| Gasoline (off-site use) | gal | 25034 | 3,100,000. | 0 | 0 | 0 | 0 | 490,000. | 2,800. | 110. | 14. | 0 | 0 | 7.5 | 0 | 0 | 0 |
| Natural gas (off-site use) | ccf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| On-site electricity use | MWh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity transmission* | MWh | 2200 | 900,000. | 260. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity production* | MWh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Energy Subtotal | | | 13,000,000. | 260. | 0 | 0 | 0 | 1,900,000. | 14,000. | 440. | 220. | 0 | 0 | 27. | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | |
| Materials | | | | | | | | | | | | | | | | | |
| PVC | lb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HDPE | lb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Steel | lb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stainless Steel | lb | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gravel/sand | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cement Grout | dry-ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Concrete | tons | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bentonite | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Regenerated GAC | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bioinjection (Molasses) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bioinjection (Cheese Whey) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bioinjection (Vegetable Oil) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diesel Produced | gal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gasoline Produced | gal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Natural Gas Produced | ccf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundwater Extracted On-site | gal x 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Potable Water Produced | gal x 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Potable Water Transported | gal x 1000 | 5671 | 42,000. | 3.7 | 27. | 0 | 0 | 2,900. | 3.1 | 25. | 0.32 | 0.0033 | 0 | 0 | 0.015 | 0.00022 | 0.0000000017 |
| Potable Water Used | gal x 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other On-Site Water Used | gal x 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Materials Subtotal | | | 42,000. | 3.7 | 27. | 0 | 0 | 2,900. | 3.1 | 25. | 0.32 | 0.0033 | 0 | 0 | 0.015 | 0.00022 | 0.0000000017 |
| Waste and Other Services | | | + | | | + | + + | | | | + + | ++ | ++ | | | + + | |
| Off-site waste water treatment | gal v 1000 | 0 | | 0 | 0 | | | | | | 0 | | | | | | 0 |
| Solid Waste Generation | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solid Waste Disposal | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hazardous Waste Generation | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hazardous Waste Disposal | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Laboratory Analysis | \$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Waste and Other Services Subtotal | Ŷ | | 0 | 0 | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | |
| On-site process emissions (HAPs) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| On-site process emissions (GHGs) | lbs CO2e | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Subtotal | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | - | - | - | - | - | - | - | - | - | - | - | - | - | |

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

												Le	evel 3 (O	Off-Site) Pa	ramete	ers Used, E	xtracte	d, Emitted	d, or Gene	erated Or	n-Site -	Alternativ	e 2									
			Fr	nergy	FI	ectricity		All Water	Pota	ble Water	Grou	undwater		CO2e				<u>.</u> SO x	PN	м	Soli	d Waste	На	z. Waste	Ai	r Toxics	Mer	rcurv		Lead	D	Jioxins
		Ouantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	50 X	Conv.		Conv.	u wuste	Conv.		Conv.	I TOXICS	Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0			0	0		0		0		0		0		0)	0		0		0		0		0		0		0
Energy																																
Diesel (on-site)	gal	0	139	(0 0		0 (0 0	0	0	0	0	22.5	C	0.17	(0.0054	0	0.0034	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	124	(0 0		0 (0 0	0	0	0	0	19.6	C	0.11	(0.0045	0	0.0005	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	103	(0 0		0 (0 0	0	0	0	0) 12	C	0.0001	(6E-06	0	0 8E-06	0	0	0	0	0	0.29	0	0 0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	(0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	(0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	(0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	3413	() 1		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	(0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	2200	0	(0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtotal				0			0	0		0		0		0		0		0)	0		0		0		0		0		0		0
Materials																																
PVC	lb	8000	0	(0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
HDPE	lb	600	0	(0 0		0 (0	0	0	0	0 0	0	0	(0 0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Steel Steinlass Steel	ID	19400	0	(0 0		0	0	0	0		0	0	(0		0	0	0	0	0	0	0		0	0	0	0	0
Stainless Steel		1000	0	(0	0	0	0			0	(0		0	0	0	0	0	0	0		0	0	0	0	0
Gravel/sand	ton	5648	0						0	0	0	0			0	(0		0	0	0	0	0	0	0		0	0	0	0	0
Concrete	dry-ton	260	0						0	0	0	0			0			0		0	0	0	0	0	0	0		0	0	0	0	0
Bentonite	ton	1	0	(0	0	0			0			0		0	0	0	0	0	0			0	0	0	0	0
Begenerated GAC	lbs	1566000	0	(0	0	0			0			0		0	0	0	0	0	0	0		0	0	0	0	0
Righterated GAC	lbs	2162200	0	(0	0	0			0	(0		0	0	0	0	0	0	0		0	0	0	0	0
Bioinjection (Woldsses)	lbs	994100	0	(0 0			0	0	0			0	(0		0	0	0	0	0	0	0		0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	(0 0		0	0	0	0		0	0	(0		0	0	0	0	0	0	0		0	0	0	0	0
Diesel Produced	gal	70728	0	() 0		0 (0	0	0	0) 0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced	gal	25271.6	0	() 0		0 (0 0	0	0	0	0) 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced	ccf	0	0	() 0		0 (0 0	0	0	0	0) 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	() 0		0 1	1 0	0	0	1	0) 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	5671	0	() 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	() 0		0 (0 0	0	0	0	C	0 0	C	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Used	gal x 1000	0	0	(0 0		0	1 0	1	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	(0 0		0 1	1 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal				0			0	0		0		0		0		0		0		0		0		0		0		0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	505000	0	(0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	(0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	1	0	0	0	0	0	0 0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	(0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Hazardous Waste Generation	ton	0	0	(0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	6280	0	(0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis	Ş	919700	0	(0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtotal				0			0	0		0		0		0		0		0		0		0		0		0		0		0		0
011																																
	llee						0																6								0	
On-site process emissions (HAPs)		0	0	(0	0	0	0			0	(0	0		0	0	0	0	0	1	0		0	0	0	0	0
On-site process emissions (GHGs)	ids CO2e	U	0	(0				0	0	0	0	1	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal				0			U I	0		0		0		0		0		0		0		0		0		0		0		U		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

												Le	vel 3 (0	Off-Site) Pa	aramete	ers Used, E	Extracte	d, Emitted	l, or Ge	nerated Of	f-Site -	Alternativ	e 2								
			E	Energy	El	ectricity	Α	ll Water	Pota	ble Water	Gro	undwater		CO2e		NO x		SO x		РМ	Sol	id Waste	На	z. Waste	Air	Toxics M	ercury		Lead	D	vioxins
		Quantity	Conv.		Conv.	,	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	(Conv.	Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated F	Factor	Emitted Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs	lbs		lbs		lbs
Totals				51,000,000.		1,500.		29,000.		0		0		10,000,000.		65,000.		60,000.		3,600.		7.9		0.014		320.	0.072		0.68		0.000057
Energy																															
Diesel (on-site)	gal	0	0	0) 0	0) 0	0	0 0	0	0	0	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Diesel (off-site use)	gal	0	139	0	0 0	0	0 0	0	0 0	0	0	C	22.5	(0.17	(0.0054	0	0.0034	0	0	0	0	0 (0.0003	0 0	0	0	0	0	0
Gasoline (off-site use)	gal	0	124	0	0 0	0	0 0	0	0 0	0	0	C	19.6	(0.11	(0.0045	0	0.0005	0	0	0	0	0 (0.0003	0 0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	103	0	0 0	0	0 0	0	0 0	0	0	C) 12	(0.0001	(0 6E-06	0	8E-06	0	0	0	0	0	0.29	0 0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Electricity transmission*	MWh	0	410	0	0.12	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Electricity production*	MWh	2200	7800	17,000,000.	. 0.06	130.	. 7.3	16,000.	. 0	0	0	C	800	1,800,000	. 0.84	1,800	. 6.7	15,000.	. 0.087	190.	0.0009	2.	0	0	0.017	37. 3E-06	0.0057	3E-05	0.068	9E-12	0.000000019
Energy Subtotal				17,000,000.		130.		16,000.		0		0		1,800,000.		1,800.		15,000.		190.		2.		0		37.	0.0057		0.068		0.00000019
Matariala																															
	١L	0000	22	100.000	0.0000	A =	0.0000		0			^		22.000	0.0040	20	0.0076	C.4	0.0012	0.0	25.00	0.040	25.00	0.012	0.0005	2.0 25.07	0.0027	15.07	0.004	75.00	0.000055
	di	8000	22	180,000.	0.0006	4.5	0.0069	55.	. 0	0	0		4.1	33,000	. 0.0048	38	0.0076	61.	0.0012	9.6	2E-06	0.018	2E-06	0.013	0.0005	3.8 3E-07	0.0027	1E-07	0.001	7E-09	0.000055
HDPE Stool	ID Ib	10400	31	19,000.	0.0003	0.15	0.0023	1.4	+ 0	0	0	0	1.9	1,100	0.0032	1.5	0.0041	2.5	0.0006	0.38	4E-07	0.00026	1E-06	0.0006	3E-06	0.002 3E-09	0.000016	2E-09	0.0000014	1E-09	0.00000059
Steel		19400	4.4	85,000.	0.0002	4.1	0.0006	12.	. 0	0	0		$\frac{1.1}{2.4}$	21,000	0.0014	27	0.0017	33.	0.0006	11.	0.0003	4.9	0	0	7E-05	1.3 IE-07	0.0019	3E-06	0.049	7E-12	0.00000013
Stalliess Steel	top	1000 E649	11.0	12,000.	0.0006	0.50	0.0023	2.3		0	0		3.4	3,400	0.0075	7.5	0.012	12.	0.0044	4.4	0.0006	0.62	0	0	45.07	0.14 0	0,0000036	5E-07	0.00052	2E-12	0.000000022
Gravel/sallu	dry top	71	4100	310,000.	0.0027	15.	0.13	/30.	. 0	0	0		1800	38,000	. 0.033	190	. 0.03	170.	0.004	23.	0	0	0	0	4E-07	0.0023 6E-11	0.0000036	1E-09	0.0000068	2E-10	0.00000000000085
Concrete	tons	260	4100	290,000.	0.13	9.2	0.41	29.	. 0	0	0		1800	130,000	. 3.0	260	. 2.1	150.	0.0063	0.45	25.08	0 00001	0	0	0.058	4.1 0E-05	0.004		0.0092	9E-11 2E 11	0.000000000
Bentonite	ton	1	793	290,000.	0.020	9.0	0.13	70.	. 0	0	0		67	120,000	· 0.08	0.023	0.41	130.	0.0044	0.004	3E-08	0.00001	0	0	45-07	4.1 IE-03	0.0037	1E-00	0.0083	25-11	0.0000000055
Regenerated GAC	lbs	1566000	9.6	15 000 000	0.0027	690	0.13	10,000	, 0	0	0		$\frac{1}{2}$	3 100 000	0.035	39.000	0.03	23 000	0.004	0.004	0	0	0	0	41-07	0.0000041 0L-11	0.0000000000000000000000000000000000000	11-09	0.000000012	21-10	0
Righteration (Molasses)	lbs	2162200	1 31	2 800 000	5E-06	11	9F-05	200	. 0	0	0		$\frac{2}{04}$	860,000	0.023	6 500	0.015	5 600	6F-05	130	0	0	0	0	0	0 0	0	0	0	0	
Bioinjection (Cheese Whey)	lbs	994100	1.51	1 900 000	0	0		200	0	0	0		$\frac{0.4}{1.1}$	1 100 000	0.0083	8 300	0.0099	9 800	0.0002	130.	0	0	0	0	0	0 0	0	0	0	0	
Bioinjection (Vegetable Oil)	lbs	0	3.6	1,500,000	. 6F-05	0	2E-05	0		0	0	0	3.51	(0.0265	0,500	0.031		0.0017	0	0	0	0	0	0	0 0	0	0	0	0	
Diesel Produced	gal	70728	18.5	1.300.000.	0.0006	42.	0.0008	54.	. 0	0	0	0	2.7	190.000	0.0064	450	0.013	920.	0.0003	24.	4E-07	0.025	0	0 (0.0001	8.5 5E-08	0.0034	2E-06	0.11	3E-14	0.000000021
Gasoline Produced	gal	25271.6	21	530,000.	0.0006	15.	0.0008	20.	. 0	0	0	0) 4.4	110,000	. 0.008	200	. 0.019	480.	0.0005	13.	4E-07	0.011	0	0 (0.0002	4. 9E-08	0.0021	2E-06	0.056	3E-14	0.0000000078
Natural Gas Produced	ccf	0	5.2	0	0.0003	0	8E-05	0) 0	0	0	C	2.2	(0.0037	(0.0046	0	7E-05	0	0	0	0	0	6E-06	0 2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	0	0	0) 0	0	0 0	0	0 0	0	0	C) 0	(0 0	(0 0	0) 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Potable Water Produced	gal x 1000	5671	9.2	52,000.	. 0.0004	2.5	0.021	120.	. 0	0	0	C) 5	28,000	. 0.0097	55	. 0.0059	33.	. 0.016	91.	8E-07	0.0047	0	0	2E-05	0.085 8E-09	0.000047	7E-08	0.00038	1E-13	0.0000000057
Potable Water Transported	gal x 1000	0	7.4	0	0.0006	0	0.0047	0	0 0	0	0	C	0.5168	(0.0005	(0.0043	0	6E-05	0	6E-07	0	0	0	0	0 3E-06	0	4E-08	0	3E-14	0
Potable Water Used	gal x 1000	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Materials Subtotal				23,000,000.		800.		11,000.		0		0		5,700,000.		55,000.		40,000.		480.		5.6		0.014		26.	0.018		0.24		0.000056
Waste and Other Services																															·
Off-site waste water treatment	gal x 1000	505000	3.7	1,900,000.	0.0002	91.	0.0008	420.	. 0	0	0	C) 3	1,500,000	. 0.0061	3,100	. 0.0029	1,500.	. 8E-05	40.	5E-07	0.23	0	0 (0.0001	61. 8E-08	0.041	6E-07	0.32	1E-12	0.00000051
Solid Waste Generation	ton	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	0	0.15	0	0 0	0	0	C	25	(0.14	(0.075	0	0.4	0	8E-06	0	0	0 (0.0014	0 1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0	0	0	0 0	0	0 0	0	0 0	0	0	C	0 0	(0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Hazardous Waste Disposal	ton	6280	176	1,100,000.	0.0085	53.	0.165	1,000.	. 0	0	0	C	27.5	170,000	. 0.154	970	. 0.0825	520.	. 0.44	2,800.	9E-06	0.055	0	0 (0.0015	9.7 1E-06	0.0067	8E-06	0.053	1E-11	0.00000083
Laboratory Analysis	Ş	919700	8.8	8,100,000.	. 0.0005	460.	. 0.0006	520.	. 0	0	0	C	1.3	1,200,000	. 0.0045	4,100	. 0.003	2,800.	. 0.0001	100.	0	0	0	0 (0.0002	190. 0	0	0	0	0	0
Waste and Other Services Subtotal				11,000,000.		600.		1,900.		0		0		2,900,000.		8,200.		4,800.		2,900.		0.29		0		260.	0.048		0.37		0.00000059
Other																															
On-site process omissions (HADs)	lbc	0	0								0										0		0		0	0 0		0		0	
On-site process emissions (GHCs)	lbs CO20	0	0	0						0	0							0		0	0	0	0	0	0		0	0	0	0	0
On-site process emissions (GRGS)	ibs COZE	U	0	0	, 0		, 0		, 0		0		, 0					0	, 0		0	0	0	0	0	0 0	0	0	0	0	0
				0		0		0		0		<u> </u>		L 0		0		0		0		0		U		U	0		0		

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

							L	evel 3 (Off-Site	e) Total On-Sit	e and Off-Site	e Parameters -	Alternative 2					
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity															
		Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals			51 000 000	1 500	29,000		0	10,000,000	65,000	60,000	2 600	7.0	0.014	220	0.072	0.68	0 000057
			51,000,000.	1,500.	23,000.			10,000,000.	05,000.	80,000.	3,000.	7.5	0.014	520.	0.072	0.08	0.000037
Enerav																	
Diesel (on-site)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	2200	17,000,000.	130.	16,000.	0	0	1,800,000.	1,800.	15,000.	190.	2.	0	37.	0.0057	0.068	0.00000019
Energy Subtotal			17,000,000.	130.	16,000.	0	0	1,800,000.	1,800.	15,000.	190.	2.	0	37.	0.0057	0.068	0.00000019
Materials																	
PVC	lb	8000	180,000.	4.5	55.	0	0	33,000.	38.	61.	9.6	0.018	0.013	3.8	0.0027	0.001	0.000055
HDPE	lb	600	19,000.	0.15	1.4	0	0	1,100.	1.9	2.5	0.38	0.00026	0.0006	0.002	0.0000016	0.0000014	0.00000059
Steel	lb	19400	85,000.	4.1	12.	0	0	21,000.	27.	33.	11.	4.9	0	1.3	0.0019	0.049	0.00000013
Stainless Steel	lb	1000	12,000.	0.56	2.3	0	0	3,400.	7.5	12.	4.4	0.62	0	0.14	0	0.00052	0.000000022
Gravel/sand	ton	5648	310,000.	15.	730.	0	0	38,000.	190.	170.	23.	0	0	0.0023	0.0000036	0.000068	0.0000000000085
Cement Grout	dry-ton	71	290,000.	9.2	29.	0	0	130,000.	260.	150.	0.45	0	0	4.1	0.004	0.0092	0.00000006
Concrete	tons	369	290,000.	9.6	70.	0	0	120,000.	250.	150.	1.6	0.00001	0	4.1	0.0037	0.0089	0.000000059
Bentonite	ton	1	55.	0.0027	0.13	0	0	6.7	0.033	0.03	0.004	0	0	0.00000041	0.00000000064	0.000000012	0.00000000000000015
Regenerated GAC	lbs	1566000	15,000,000.	690.	10,000.	0	0	3,100,000.	39,000.	23,000.	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	2162200	2,800,000.	11.	200.	0	0	860,000.	6,500.	5,600.	130.	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	994100	1,900,000.	0	0	0	0	1,100,000.	8,300.	9,800.	170.	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	70728	1,300,000.	42.	54.	0	0	190,000.	450.	920.	24.	0.025	0	8.5	0.0034	0.11	0.000000021
Gasoline Produced	gal	25271.6	530,000.	15.	20.	0	0	110,000.	200.	480.	13.	0.011	0	4.	0.0021	0.056	0.0000000078
Natural Gas Produced	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	5671	52,000.	2.5	120.	0	0	28,000.	55.	33.	91.	0.0047	0	0.085	0.000047	0.00038	0.0000000057
Potable Water Transported	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
iviateriais Subtotal			23,000,000.	800.	11,000.	0	0	5,700,000.	55,000.	40,000.	480.	5.6	0.014	26.	0.018	0.24	0.000056
Waste and Other Services				+ +							+						
Off site waste water treatment	gal v 1000	505000	1 000 000	01	420			1 500 000	2 100	1 500	10	0.22		61	0.041	0.22	0.00000051
Solid Waste Congration		0	1,900,000.	91.	420.	0	0	1,500,000.	5,100.	1,500.	40.	0.23	0	01.	0.041	0.32	0.00000051
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Congration	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	6280	1 100 000	52	1 000	0	0	170.000	970	520	2 800	0.055	0	07	0 0067	0.052	0 00000083
Laboratory Analysis	ć	919700	8 100 000		520	0	0	1 200 000	4 100	2 800	2,800.	0.033	0	190	0.0007	0.035	0.00000085
Waste and Other Services Subtatal	ب ب	515700	11 000 000	400. 600	1 000			2 000,000.	9,100.	2,800. <u>A 900</u>	2 000	0.20	0	260	0 0.049	0 27	0 0000050
			11,000,000.	000.	1,300.		0	2,300,000.	0,200.	4,000.	2,500.	0.23	0	200.	0.048	0.37	0.00000039
Other						1						I					
On-site process emissions (HAPs)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal		, , , , , , , , , , , , , , , , , , ,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		ļ	3	-	, , , , , , , , , , , , , , , , , , ,	J	Ţ	-	Ţ		3	,		_	3	, , , , , , , , , , , , , , , , , , ,	5

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

Traffic and Personnel - Alternative 2

		Level 1 -On-	Level 2 -	Level 3 -	Level 4 -	Level 5 -	Level 6 -	
ltem	Units	Site	Transport.	Off-Site	Not Used	Not Used	Not Used	Total
<u>Traffic</u>								
Number of passenger car trips to the site	trips		0					0
Number of light-duty truck trips to the site	trips		2916					2,916
Number of freight or other heavy duty truck trips to the site	trips		1462					1,462
Total passenger car miles driven	miles		0					0
Total light-duty truck miles driven	miles		163170					163,170
Total freight or other heavey duty truck miles driven	miles		699650					699,650
<u>Personnel</u>								
On-Site Man days worked	man-days	5522						5,522

Alternative:Alternative 3Alternative Name:BioremediationPath Name:Green Remediation Tool Main.xlsxMain File Name:Green Remediation Tool Main.xlsxReference File Name:Green Remediation Tool Reference.xlsxModule File Name:alternative 3 v1 inventory modules.xlsx

Variables In Alternative:

Level 1	On-Site
Level 2	Transport.
Level 3	Off-Site
Level 4	Not Used
Level 5	Not Used
Level 6	Not Used

		Usage inpu	it - Aiten						
			Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
		Units	On-Site	Transport.	Off-Site	Not Used	Not Used	Not Used	Total
	Abbreviation								
Energy									
Diesel (on-site)	Diesel-On	gal	10299						10299
Gasoline (on-site use)	Gas-On	gal	127.2						127.2
Natural gas (on-site use)	NG-On	ccf							0
Diesel (off-site use)	Diesel-Off	gal		63357					63357
Gasoline (off-site use)	Gas-Off	gal		11483					11483
Natural gas (off-site use)	NG-Off	ccf							0
On-site electricity use	Elec. Use	MWh	13						13
Electricity transmission*	Elec. Trans	MWh		13					13
Electricity production*	Elec. Prod	MWh			13				13
Materials									
PVC	PVC	lb			9300				9300
HDPE	HDPE	lb			0				0
Steel	Steel	lb			15300				15300
Stainless Steel	S. Steel	lb			0				0
Gravel/sand	Sand	ton			5651				5651
Cement Grout	Cement	dry-ton			82				82
Concrete	Concrete	tons			375				375
Bentonite	Bent.	ton			1				1
Regenerated GAC	GAC-R	lbs			0				0
Bioinjection (Molasses)	Bio#1	lbs			2612100				2612100
Bioinjection (Cheese Whey)	Bio#2	lbs			1201000				1201000
Bioinjection (Vegetable Oil)	Bio#3	lbs			0				0
Diesel Produced	Diesel-Pro	gal			73656				73656
Gasoline Produced	Gas-Pro	gal			11610.2				11610.2
Natural Gas Produced	NG-Pro	ccf			0				0
Groundwater Extracted On-site	GW Ext	gal x 1000	27						27
Potable Water Produced	PW Pro.	gal x 1000			6851				6851
Potable Water Transported	PW Trans.	gal x 1000		6851					6851
Potable Water Used	PW Used	gal x 1000	6851						6851
Other On-Site Water Used	OW	gal x 1000							0
Waste and Other Services									
Off-site waste water treatment	ΡΟΤΙΜ	gal v 1000			0				0
Solid Waste Generation	SW-Gen	ton	0		0				0
Solid Waste Disposal	SW-Disp	ton	0		0				0
Hazardous Waste Generation	HW-Gen	ton	6300		0				6300
Hazardous Waste Disposal	HW-Disp	ton	0300		6200				6300
Laboratory Analysis	lab	Ś			830100				839100
	Lau	ې		1	033100				000100
Other									
On-site process emissions (HAPs)	Proc. HAPs	lbs	0						0
On-site process emissions (GHGs)	Proc. GHGs	lbs CO2e	0						0

Usage Input - Alternative 3

Notes:

* Report on-site electricity usage for these categories. Transmission and electricity production will be automatically calculated.

					Totals For	• Parameters	Used, Extract	ted, Emitted,	or Generated	l On-Site - Al	ternative 3				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
[Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	1,500,000.	13.	0	0	0	230,000.	1,800.	57.	35.	0	0	3.1	0	0	0
Materials	0	0	6,900.	6,900.	27.	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	6,300.	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0
Level 2 - Transport.															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	0	0	0		0	0	0	0	0	0	0	0		0	0
Lough 2 Off Site														r	
Level 5 - Ojj-Sile	0		0			0					0	0		0	
Matorials	0	0	0	0	0	0	0	0	0		0	0		0	0
Waste /Services	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Off-Site Total	0	0	0			0	0	0	0	0		0		0	0
Ojj-Site Totul			0			0		0	0	0	0	0		0	
Level 4 - Not Used															
Fnergy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
										ļ		ļ			
															
Total	1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0

					Totals For	Parameters	Used, Extract	ed, Emitted,	or Generated	Off-Site - Alt	ernative 3				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 2 - Transport.	40.000.000					1 600 000	12.000								
Energy	10,000,000.	1.6	0	0	0	1,600,000.	12,000.	390.	230.	0	0	22.	0	0	0
Materials	51,000.	4.4	32.	0	0	3,500.	3.7	30.	0.39	0.004	0	0	0.018	0.00027	0.000000002
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	10,000,000.	6.	32.	0	0	1,600,000.	12,000.	420.	230.	0.004	0	22.	0.018	0.00027	0.000000002
l evel 3 - Off-Site											<u> </u>				\vdash
Energy	100 000	0.78	95	0	0	10,000	11	87	1 1	0.012	0	0.22	0.000034	0 0004	0.0000000011
Materials	8.500.000.	110.	1.400.	0	0	3.000.000.	19.000.	21.000.	550.	3.9	0.015	25.	0.018	0.2	0.000064
Waste/Services	8.500.000.	470.	1.500.	0	0	1.300.000.	4.800.	3.000.	2.900.	0.055	0	180.	0.0067	0.053	0.00000083
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Total	17.000.000.	580.	3.000.	0	0	4.300.000.	24.000.	24.000.	3.500.	4.	0.015	210.	0.025	0.25	0.000064
			0,000			.,,	,	,						0.20	
Level 4 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utner	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Usea Total	0		0											0	
						┝────┤	\vdash	┣━━━━━┥		├ ───┤	\vdash				├ ───┤
Total	27.000.000	500	2 000			5 000 000	26.000	24.000	2 700		0.015	220	0.042	0.25	0.000064
10101	27,000,000.	590.	5,000.	U	U	5,500,000.	50,000.	24,000.	5,700.	4.	0.015	230.	0.043	0.25	0.000064

						Totals fo	r On-Site and	Off-Site Para	ameters - Alte	ernative 3					
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	1,500,000.	13.	0	0	0	230,000.	1,800.	57.	35.	0	0	3.1	0	0	0
Materials	0	0	6,900.	6,900.	27.	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	6,300.	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0
Level 2 - Transport.															
Energy	10,000,000.	1.6	0	0	0	1,600,000.	12,000.	390.	230.	0	0	22.	0	0	0
Materials	51,000.	4.4	32.	0	0	3,500.	3.7	30.	0.39	0.004	0	0	0.018	0.00027	0.000000002
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	10,000,000.	6.	32.	0	0	1,600,000.	12,000.	420.	230.	0.004	0	22.	0.018	0.00027	0.000000002
Level 3 - Off-Site															
Energy	100,000.	0.78	95.	0	0	10,000.	11.	87.	1.1	0.012	0	0.22	0.000034	0.0004	0.0000000011
Materials	8,500,000.	110.	1,400.	0	0	3,000,000.	19,000.	21,000.	550.	3.9	0.015	25.	0.018	0.2	0.000064
Waste/Services	8,500,000.	470.	1,500.	0	0	1,300,000.	4,800.	3,000.	2,900.	0.055	0	180.	0.0067	0.053	0.00000083
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Total	17,000,000.	580.	3,000.	0	0	4,300,000.	24,000.	24,000.	3,500.	4.	0.015	210.	0.025	0.25	0.000064
Loval A. Natilland															
Level 4 - Not Used	0		0			0		0	0	0		0		0	
Matorials	0	0	0	0	0	0		0	0			0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0		0	0		0	0	0		0		0	0
Not oscu rotur			0								<u> </u>			0	
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	29,000,000.	600.	9,900.	6,900.	27.	6,100,000.	38,000.	24,000.	3,800.	4.	6,300.	240.	0.043	0.25	0.000064

					Percentages	For Paramet	ers Used, Ext	racted, Emitte	ed, or Genera	ted On-Site -	Alternative 3				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	100%	100%	0%	0%	0%	100%	100%	100%	100%	0%	0%	100%	0%	0%	0%
Materials	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Un-Site Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	100%	100%	0%	0%	0%
Level 2 - Transport													├ ────┤		
Eever 2 - mansport. Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 3 - Off-Site															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Un-site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
level 5 - Not lised							├	├							┝────┨
Evers	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

					Percentages	For Parameter	rs Used, Extra	acted, Emitted	l, or Generat	ted Off-Site - /	Alternative 3				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	076	0%	0%	0%	0%	078	0%	0%	076	0%	0%	0%
Level 2 - Transport.															
Energy	37%	<1%	0%	0%	0%	27%	33%	2%	6%	0%	0%	9%	0%	0%	0%
Materials	<1%	<1%	1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	0%	42%	<1%	<1%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	37%	0%	1%	0%	0%	27%	33%	2%	6%	<1%	0%	9%	42%	<1%	<1%
Level 3 - Off-Site															
Energy	<1%	<1%	3%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	<1%	<1%	<1%	<1%
Materials	31%	19%	46%	0%	0%	51%	53%	86%	15%	97%	100%	11%	42%	80%	100%
Waste/Services	31%	80%	49%	0%	0%	22%	13%	12%	/8%	1%	0%	/8%	16%	21%	<1%
Off Site Tetal	0%	0%	0%	0%	0%	72%	0%	0%	0%	0%	0%	0%	0%	0% 101%	0%
Ojj-site rotar	03%	99%	99%	0%	0%	73%	00%	98%	92%	99%	100%	0070	57%	101%	100%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 5 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

					P	ercentages fo	r Total On-Sit	e and Off-Site	e Parameters	- Alternative	3				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	5%	2%	0%	0%	0%	4%	5%	<1%	<1%	0%	0%	1%	0%	0%	0%
Materials	0%	0%	69%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	5%	2%	69%	100%	100%	4%	5%	<1%	<1%	0%	100%	1%	0%	0%	0%
level 2 - Transport															
Eever 2 - Munsport. Fnergy	35%	<1%	0%	0%	0%	26%	37%	2%	6%	0%	0%	9%	0%	0%	0%
Materials	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	0%	42%	<1%	<1%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	35%	0%	<1%	0%	0%	26%	32%	2%	6%	<1%	0%	9%	42%	<1%	<1%
Level 3 - Off-Site															
Energy	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	<1%	<1%	<1%	<1%
Materials	30%	18%	14%	0%	0%	49%	50%	86%	15%	97%	<1%	11%	42%	80%	100%
Waste/Services	30%	78%	15%	0%	0%	21%	13%	12%	77%	1%	0%	77%	16%	21%	<1%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	60%	97%	29%	0%	0%	70%	63%	98%	92%	99%	<1%	87%	57%	101%	100%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Wasto/Sorvicos	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	0,0			0,0	0,0	0,0						0,0			0,0
Level 5 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%		0%	0%	0%	0%		0%	0%	0%	0%	0%	0%	0%	0%

														All Lev	vels - Paran	neters	Used, Extr	acted, I	Emitted, o	r Genera	ated On-Si	ite - Alt	ernative 3	\$									
Partial Partial <t< td=""><td></td><td></td><td></td><td>Er</td><td>nergy</td><td>El</td><td>ectricity</td><td>A</td><td>ll Water</td><td>Potab</td><td>ole Water</td><td>Grou</td><td>ndwater</td><td></td><td>CO2e</td><td></td><td>NO x</td><td></td><td>SO x</td><td></td><td>PM</td><td>Sol</td><td>id Waste</td><td>На</td><td>z. Waste</td><td>Ai</td><td>r Toxics</td><td>M</td><td>lercurv</td><td></td><td>Lead</td><td>C</td><td>Dioxins</td></t<>				Er	nergy	El	ectricity	A	ll Water	Potab	ole Water	Grou	ndwater		CO2e		NO x		SO x		PM	Sol	id Waste	На	z. Waste	Ai	r Toxics	M	lercurv		Lead	C	Dioxins
Part Part Part Part Part Part Part Part			Quantity	Conv.	07	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
N N N N N N N N N N N N <t< td=""><td></td><td></td><td>Used</td><td>Factor</td><td>Used</td><td>Factor</td><td>Used</td><td>Factor</td><td>Used</td><td>Factor</td><td>Used</td><td>Factor</td><td>Extracted</td><td>Factor</td><td>Emitted</td><td>Factor</td><td>Emitted</td><td>Factor</td><td>Emitted</td><td>Factor</td><td>Emitted</td><td>Factor</td><td>Generated</td><td>Factor</td><td>Generated</td><td>Factor</td><td>Emitted</td><td>Factor</td><td>Released</td><td>Factor</td><td>Released</td><td>Factor</td><td>Released</td></t<>			Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
Image: Protect in the state in thestate in thestate in the state in the state in the state in the s					Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
State State <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																																	
bols bols <th< td=""><td>Totals</td><td></td><td></td><td></td><td>1,500,000.</td><td></td><td>13.</td><td></td><td>6,900.</td><td></td><td>6,900.</td><td></td><td>27.</td><td></td><td>230,000.</td><td></td><td>1,800.</td><td></td><td>57.</td><td></td><td>35.</td><td></td><td>0</td><td></td><td>6,300.</td><td></td><td>3.1</td><td>!</td><td>0</td><td></td><td>0</td><td></td><td>0</td></th<>	Totals				1,500,000.		13.		6,900.		6,900.		27.		230,000.		1,800.		57.		35.		0		6,300.		3.1	!	0		0		0
Solution																																	
Deal Deal <th< td=""><td>Energy</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Energy							-																									
Condensioned M M M <th< td=""><td>Diesel (on-site)</td><td>gal</td><td>10299</td><td>139</td><td>1,400,000.</td><td>0</td><td>(</td><td>0 0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>22.5</td><td>230,000.</td><td>0.17</td><td>1,800</td><td>. 0.0054</td><td>56.</td><td>. 0.0034</td><td>35.</td><td>0</td><td>0</td><td>0 0</td><td>0</td><td>0.0003</td><td>3.1</td><td>1 0</td><td>0</td><td>0 0</td><td>0</td><td>0</td><td>0</td></th<>	Diesel (on-site)	gal	10299	139	1,400,000.	0	(0 0	0	0	0	0	0	22.5	230,000.	0.17	1,800	. 0.0054	56.	. 0.0034	35.	0	0	0 0	0	0.0003	3.1	1 0	0	0 0	0	0	0
Part as protocis.	Gasoline (on-site use)	gal	127.2	124	16,000.	0	(0	0	0	0	0	19.6	2,500.	0.11	14	. 0.0045	0.57	0.0005	0.069	0	0	0 0	0	0.0003	0.038	8 0	0	0 0	0	0	0
bit bit <td>Natural gas (on-site use)</td> <td>ccf</td> <td>0</td> <td>103</td> <td>0</td> <td>0</td> <td>(</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>12</td> <td>0</td> <td>0.0001</td> <td>(</td> <td>0 6E-06</td> <td>0</td> <td>) 8E-06</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0.29</td> <td>(</td> <td>0 0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	Natural gas (on-site use)	ccf	0	103	0	0	(0	0	0	0	12	0	0.0001	(0 6E-06	0) 8E-06	0	0	0		0	0.29	(0 0	0		0	0	0
matrix matrix<	Diesel (off-site use)	gai	63357	0	0	0	(0	0	0	0	0	0	0			0		0	0	0		0	0	(0		0	0	0
Conditionante and and a series Conditionante and a series	Gasoline (off-site use)	gai	11483	0	0	0				0	0	0	0	0	0	0	(0	0 0	0		0	0	(0		0	0	0
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Natural gas (OII-site use)		12	2412	14 000	0	12			0	0	0	0	0	0	0	(0	0			0	0	(0		0	0	0
Control Non Li I I I I	Ch-site electricity use		13	3413	44,000.	1	13			0	0	0	0	0	0	0	(0	0			0	0	(0		0	0	0
Control Dire Dire <thdire< th=""> Dire Dire <</thdire<>	Electricity production*		13	0	0	0				0	0	0	0	0	0	0	(0				0	0			0		0	0	0
body norm Arrow	Electricity production		15	0	1 500 000	0	12			0	0	0	0	0	230,000	0	1 800	, 0	57		25	0	0	0	0	0	21		0	0	0	0	0
intervent int int< int< int<	Lifergy Subtotur				1,500,000.		15.	•	, , , , , , , , , , , , , , , , , , ,		0		0		230,000.		1,800.		57.		55.		0		0		3.1	•			0		0
met bs vs c o o o o	Materials																																
mem i.e. mem i.e. mem mem </td <td>PVC</td> <td>lb</td> <td>9300</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> <td>0 0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>(</td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td>	PVC	lb	9300	0	0	0	(0 0		0	0	0	0	0	0	0	(0		0	0	0		0	0	(0	0		0	0	0
Diami Diami <th< td=""><td>HDPF</td><td>lb</td><td>0</td><td>0</td><td>0</td><td>0</td><td>(</td><td></td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>(</td><td></td><td></td><td></td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>(</td><td></td><td>0</td><td></td><td>0</td><td>0</td><td>0</td></th<>	HDPF	lb	0	0	0	0	(0	0	0	0	0	0	0	(0	0	0		0	0	(0		0	0	0
Distante	Steel	lb	15300	0	0	0	(0	0	0	0	0	0	0	(0		0	0	0		0	0	(0		0	0	0
Scentral	Stainless Steel	lb	0	0	0	0	(0 0	0 0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0) 0	0	0	(0 0	0) 0	0	0	0
Chronet Soul OP O O O <t< td=""><td>Gravel/sand</td><td>ton</td><td>5651</td><td>0</td><td>0</td><td>0</td><td>(</td><td>0 0</td><td>) 0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0 0</td><td>C</td><td>0 0</td><td>0</td><td>0</td><td>0</td><td>) 0</td><td>0</td><td>0</td><td>(</td><td>0 0</td><td>0</td><td>) 0</td><td>0</td><td>0</td><td>0</td></t<>	Gravel/sand	ton	5651	0	0	0	(0 0) 0	0	0	0	0	0	0	0	0	0 0	C	0 0	0	0	0) 0	0	0	(0 0	0) 0	0	0	0
Concrent Imm 375 Imm 375 Imm 1mm 1m	Cement Grout	dry-ton	82	0	0	0	(0 C) 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C) 0	0	0	(0 0	0) 0	0	0	0
Saturalish Satural	Concrete	tons	375	0	0	0	(0 C	0 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C) 0	0	0	(0 0	0) 0	0	0	0
hear hear 0 0 0 0 <td>Bentonite</td> <td>ton</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> <td>0 C</td> <td>0 0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>C</td> <td>0 0</td> <td>C</td> <td>0 0</td> <td>0</td> <td>0</td> <td>C</td> <td>) 0</td> <td>0</td> <td>0</td> <td>(</td> <td>0 0</td> <td>0</td> <td>) 0</td> <td>0</td> <td>0</td> <td>0</td>	Bentonite	ton	1	0	0	0	(0 C	0 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C) 0	0	0	(0 0	0) 0	0	0	0
State (Malesce) Sta	Regenerated GAC	lbs	0	0	0	0	(0 C	0 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C) 0	0	0	(0 0	0) 0	0	0	0
Singerior (Neeswerks) Ins O O O O	Bioinjection (Molasses)	lbs	2612100	0	0	0	(0 C) 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C) 0	0	0	(0 0	0) 0	0	0	0
Bioinfort (Vegetabe (A)) Bio O O O O <td>Bioinjection (Cheese Whey)</td> <td>lbs</td> <td>1201000</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> <td>0 C</td> <td>) 0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>C</td> <td>0 0</td> <td>C</td> <td>0 0</td> <td>0</td> <td>0</td> <td>C</td> <td>) 0</td> <td>0</td> <td>0</td> <td>(</td> <td>0 0</td> <td>0</td> <td>) 0</td> <td>0</td> <td>0</td> <td>0</td>	Bioinjection (Cheese Whey)	lbs	1201000	0	0	0	(0 C) 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C) 0	0	0	(0 0	0) 0	0	0	0
Diesel Produced gal 73.56 0 0	Bioinjection (Vegetable Oil)	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C	0 0	0	0	(0 0	0	0 0	0	0	0
Gaseline Produced eff 1102 0 0	Diesel Produced	gal	73656	0	0	0	(0 C	0 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0
Natural as Produced of 0	Gasoline Produced	gal	11610.2	0	0	0	(0 0	0 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C	0 0	0	0	(0 0	0	0 0	0	0	0
Groundwater furated on site gal x100 27 0 0	Natural Gas Produced	ccf	0	0	0	0	(0 0	0 0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C	0 0	0	0	(0 0	0	0 0	0	0	0
Patale Water Produced gal x 100 6851 0 <	Groundwater Extracted On-site	gal x 1000	27	0	0	0	(0 1	L 27.	0	0	1	27.	0	0	0	0	0 0	C	0 0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0
Partale Mater Transported gal X1000 6851 0	Potable Water Produced	gal x 1000	6851	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0 0	C	0 0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0
problem water Used gal X 1000 085.3 0 <t< td=""><td>Potable Water Transported</td><td>gal x 1000</td><td>6851</td><td>0</td><td>0</td><td>0</td><td>(</td><td>0 0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>) 0</td><td>0</td><td>0 0</td><td>0</td><td>0</td><td>0</td><td>0 0</td><td>0</td><td>0</td><td>(</td><td>0 0</td><td>0</td><td>0 0</td><td>0</td><td>0</td><td>0</td></t<>	Potable Water Transported	gal x 1000	6851	0	0	0	(0 0	0	0	0	0	0	0	0	0	0) 0	0	0 0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0
black value value value value value v	Potable Water Used	gal x 1000	6851	0	0	0	(0 1	6,900.	1	6,900.	0	0	0	0	0	0		0	0	0	0	0		0	0	(0 0	0		0	0	0
Internet station Image: Station Image	Other On-Site Water Used	gai x 1000	U	0	0	0	(0	0	0	0	0	0	0	0	(0		0	0	0	0	0	0	0	(0 0	0	0	0	0	0
Vaste and Other Services M </td <td>iviateriais Subtotal</td> <td> </td> <td></td> <td></td> <td>0</td> <td></td> <td>0</td> <td>/</td> <td>6,900.</td> <td></td> <td>6,900.</td> <td></td> <td>27.</td> <td></td> <td>0</td> <td>,</td> <td>0</td> <td></td> <td>0</td> <td></td> <td>0</td>	iviateriais Subtotal				0		0	/	6,900.		6,900.		27.		0		0		0		0		0		0		0	,	0		0		0
rotation of large ender large e	Waste and Other Services								H +																								
bit restrict restrict restricts bit restrict restri restrict restrict restrict restrict restri restri	Off-site waste water treatment	gal v 1000	0	0	0	0				0	0	0	0	0	0	0					0	0	0		0	0	(0	0
bolic value defauturin bolic	Solid Waste Generation	ton	0	0	0	0				0	0	0	0	0	0	0					0	1			0	0	(0		0	0	0
bit of the conduction bit of the conduc	Solid Waste Disposal	ton	0	0	0	0	((0	0	0	0	0	0	0	(0				0	0	((0		0	0	0
Arrian Control Line Contrect Control Line Contecontrol Line Control Line Control Line Contr	Hazardous Waste Generation	ton	6300	0	0	0	((0	0	0	0	0	0	0					0		0	$\frac{1}{1}$	6 300	0	(0		0	0	0
Laboratory Analysis S 839100 O <td>Hazardous Waste Disposal</td> <td>ton</td> <td>6300</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> <td></td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td>0,000.</td> <td>0</td> <td>(</td> <td></td> <td>0</td> <td></td> <td>n 0</td> <td>0</td> <td>0</td>	Hazardous Waste Disposal	ton	6300	0	0	0	(0	0	0	0	0	0	0			0		0	0	0		0,000.	0	(0		n 0	0	0
Wase and Other Services Subtait O <t< td=""><td>Laboratory Analysis</td><td>\$</td><td>839100</td><td>0</td><td>0</td><td>0</td><td>(</td><td>0 0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>(</td><td>0 0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td></t<>	Laboratory Analysis	\$	839100	0	0	0	(0 0		0	0	0	0	0	0	0			0		0	0	0		0	0	(0 0	0		0	0	0
Image: Constraint of the system of	Waste and Other Services Subtotal	T			0		0	2	0	•	0		0		0	5	0		0		0		0		6,300.	5	0)	0		0	5	0
Other I <td></td> <td>-,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																									-,								
On-site process emissions (HAPs) Ibs 0	Other																																
On-site process emissions (GHGs) Us CO2e O <td>On-site process emissions (HAPs)</td> <td>lbs</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>(</td> <td>0 0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>C</td> <td>0 0</td> <td>C</td> <td>0 0</td> <td>0</td> <td>0</td> <td>C</td> <td>0 0</td> <td>0</td> <td>1</td> <td>(</td> <td>0 0</td> <td>0</td> <td>0 0</td> <td>0</td> <td>0</td> <td>0</td>	On-site process emissions (HAPs)	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	C	0 0	0	1	(0 0	0	0 0	0	0	0
Other Subtotal 0	On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	(0 0	0	0	0	0	0	1	0	0	C	0 0	C	0 0	0	0	C	0 0	0	0	(0 0	0	0 0	0	0	0
	Other Subtotal				0		0	2	0		0		0		0		0		0		0		0		0		0)	0		0		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

												All L	evels - Para	meters	Used, Extr	acted, E	Emitted, or	r Generat	ted Off-Si	te - Alt	ernative 3									
			E	nergy Electricity All			ll Water	Potable Wa	ater	Groundwat	er	CO2e		NO x		SO x	Р	M	Soli	d Waste	Ha	z. Waste	Air	Toxics M	lercury		Lead	D	ioxins	
		Quantity	Conv.		Conv. Conv.				Conv.	C	Conv.	Conv		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor Us	sed F	actor Extra	ted Facto	r Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000	gal x	1000	gal x 1	.000	lbs		lbs		lbs		lbs		tons		tons		lbs	lbs		lbs		lbs
Totals				27,000,000.		580.		3,000.		0		0	5,900,000	,	36,000.		24,000.		3,700.		4.		0.015		230.	0.043		0.25		0.000064
Energy																														
Diesel (on-site)	gal	10299	0	C	0 0	(0 0	0	0	0	0	0	0	0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Gasoline (on-site use)	gal	127.2	0	C	0 0	(0 0	0	0	0	0	0	0	0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Natural gas (on-site use)	cct	0	0	(0 0	(0 0	0	0	0	0	0	0	0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Diesel (off-site use)	gal	63357	139	8,800,000	. 0	(0	0	0	0	0 22	5 1,400,000	0.17	11,000	0.0054	340.	. 0.0034	220.	0	0	0	0	0.0003	19. 0	0	0	0	0	0
Gasoline (off-site use)	gal	11483	124	1,400,000	. 0	(0	0	0	0	0 19	6 230,000	0.11	1,300	0.0045	52.	. 0.0005	6.2	0	0	0	0	0.0003	3.4 0	0	0	0	0	0
Natural gas (off-site use)		12	103			(0	0	0	0	0 1	2	0.0001		6E-06	0	0 8E-06	0	0	0	0	0	0.29	0 0	0	0	0	0	0
Conside electricity use		13	0	Г 200	0 12	1 (0	0	0	0	0	0				0		0	0	0	0	0	0	0 0	0	0	0	0	0
Electricity transmission*		12	7800	100,000	0.12	1.0			0	0	0	0 0	0 10.00		11	67	0		1 1	0 0000	0 012	0	0	0.017		0 000024	25.05	0 0004	05 12	0 0000000011
		15	7800	100,000	. 0.06	0.70 2 /	o 7.5	95. 05	0	0	0	0 00		0.84	12 000	0.7	87. 180	. 0.087	220	0.0009	0.012	0	0	0.017	0.22 SE-00	0.000034	3E-05	0.0004	96-12	0.0000000011
				10,000,000.		2.4	,	<u> </u>		0		0	1,000,000	,	12,000.		400.		230.		0.012		0		23.	0.000054		0.0004		0.0000000011
Materials																														
PVC	lh	9300	22	200 000	0,0006	5 7	2 0 0069	64	0	0	0	0 1	1 38.00	0.0048	<u>/</u> 5	0.0076	71	0.0012	11	2E-06	0.02	2E-06	0.015	0.0005	4.4 3F-07	0 0033	1E-07	0 0012	7E-09	0 000064
HDPF	lb	0	31	200,000	0.0003		0 0 0023	04:	0	0	0	0 1	9	0.0040		0.0041	, 11	0.0012	0	4F-07	0.02	1E-06	0.019	3E-06	0 3E-09	0.0052	2E-09	0.0012	1E-09	0.000004
Steel	lb	15300	4.4	67,000	0.0002	3.2	2 0.0006	9.8	0	0	0	0 1	1 17.00	0.0014	21	0.0017	26	0.0006	8.6	0.0003	3.8	0	0	7E-05	1 1F-07	0.0015	3E-06	0.038	7F-12	0 00000099
Stainless Steel	lb	0	11.6	(0.0006		0.0023	0	0	0	0	0 3	4	0.0075	(0.012	0	0.0044	0.0	0.0006	0	0	0	0.0001	0 0	0	5E-07	0.030	2F-12	0.0000000000000000000000000000000000000
Gravel/sand	ton	5651	55	310.000	0.0027	15	0.13	730.	0	0	0	0 6	7 38.00	0.033	190	0.03	170.	. 0.004	23.	0	0	0	0	4E-07	0.0023 6E-11	0.00000036	1E-09	0.0000068	2E-16	0.000000000000085
Cement Grout	dry-ton	82	4100	340,000	. 0.13	11	0.41	34.	0	0	0	0 180	0 150,000	. 3.6	300	2.1	170.	. 0.0063	0.52	0	0	0	0	0.058	4.8 6E-05	0.0047	0.0001	0.011	9E-11	0.00000007
Concrete	tons	375	793	300,000	. 0.026	9.8	8 0.19	71.	0	0	0	0 33	5 130,000	. 0.68	260	0.41	150.	. 0.0044	1.7	3E-08	0.000011	0	0	0.011	4.1 1E-05	0.0038	2E-05	0.009	2E-11	0.00000006
Bentonite	ton	1	55	55	. 0.0027	0.0027	7 0.13	0.13	0	0	0	0 6	7 6.	7 0.033	0.033	0.03	0.03	3 0.004	0.004	0	0	0	0	4E-07	0.00000041 6E-11	0.00000000064	1E-09	0.000000012	2E-16	0.000000000000000015
Regenerated GAC	lbs	0	9.6	C	0.0004	(0 0.0064	0	0	0	0	0	2	0.025	(0.015	0) 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Molasses)	lbs	2612100	1.31	3,400,000	. 5E-06	13	9E-05	240.	0	0	0	0 0	4 1,000,000	. 0.003	7,800	0.0026	6,800.	. 6E-05	160.	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	1201000	1.87	2,200,000	. 0	(0 0	0	0	0	0	0 1	1 1,300,000	. 0.0083	10,000	0.0099	12,000.	. 0.0002	200.	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	C	0 6E-05	(0 2E-05	0	0	0	0	0 3.5	1	0.0265	(0.031	0	0.0017	0	0	0	0	0	0	0 0	0	0	0	0	0
Diesel Produced	gal	73656	18.5	1,400,000	. 0.0006	43	0.0008	57.	0	0	0	0 2	7 200,000	. 0.0064	470	0.013	960.	. 0.0003	25.	4E-07	0.027	0	0	0.0001	8.8 5E-08	0.0035	2E-06	0.11	3E-14	0.000000022
Gasoline Produced	gal	11610.2	21	240,000	0.0006	6.9	9 0.0008	9.2	0	0	0	0 4	4 51,00	. 0.008	93	0.019	220.	. 0.0005	6.	4E-07	0.0049	0	0	0.0002	1.9 9E-08	0.00099	2E-06	0.026	3E-14	0.0000000036
Natural Gas Produced	ccf	0	5.2	C	0.0003	(0 8E-05	0	0	0	0	0 2	2	0.0037	(0.0046	0) 7E-05	0	0	0	0	0	6E-06	0 2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	27	0	C	0 0	(0 0	0	0	0	0	0	0	0 0	(0 0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Potable Water Produced	gal x 1000	6851	9.2	63,000	. 0.0004	3	0.021	140.	0	0	0	0	5 34,000	. 0.0097	66	0.0059	40.	. 0.016	110.	8E-07	0.0057	0	0	2E-05	0.1 8E-09	0.000056	7E-08	0.00046	1E-13	0.0000000069
Potable Water Transported	gal x 1000	6851	7.4	51,000	. 0.0006	4.4	4 0.0047	32.	0	0	0	0 0.516	8 3,50	0.0005	3.7	0.0043	30.	. 6E-05	0.39	6E-07	0.004	0	0	0	0 3E-06	0.018	4E-08	0.00027	3E-14	0.000000002
Potable Water Used	gal x 1000	6851	0	C	0 0	(0 0	0	0	0	0	0	0	0 0	(0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Utner On-Site Water Used	gal x 1000	0	0		0 0	(0 0	0	0	0	0	0	0	0 0	(0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
iviateriais Subtotal				8,600,000.		110.	•	1,400.		0		U	3,000,000	,	19,000.		21,000.		550.		3.9		0.015		25.	0.036		0.2		0.000064
Waste and Other Services																														
Off site waste water treatment	gal v 1000	0	27		0.0002		0.0000		0	0	0	0	2	0.00001		0.0020				EE 07		0		0.0001	0 05 00		65.07		15 13	
Solid Waste Concration	gai x 1000	0	3.7		0.0002	(0.0008	0	0	0	0	0	0	0.0081		0.0029	0	0000	0	SE-07	0	0	0	0.0001	0 8E-08	0	02-07	0	16-12	0
Solid Waste Disposal	ton	0	160			(0 0 15	0	0	0	0	0 7	5				0		0	8E_06	0	0	0	0.0014		0	85-06	0	1E_11	0
Hazardous Waste Generation	ton	6300	100	r c		((0 0.13	0	0	0	0	0	0		((0.073	0	0.4	0	0-10	0	0	0	0.0014	0 0	0	01-00	0	11-11	0
Hazardous Waste Disposal	ton	6300	176	1,100,000	0.0085	5/	0 165	1 000	0	0	0	0 27	5 170.00	0 154	970	0.0825	520	0.44	2 800	9E-06	0 055	0	0	0.0015	9 7 1F-06	0 0067	8E-06	0 053	1E-11	0 00000083
Laboratory Analysis	Ś	839100	88	7.400.000	0.0005	 420	0.0006	<u>1,000</u> . <u>4</u> 70	0	0	0	0 1	3 1.100.000	0.0045	3 800	0.003	2,500	0.0001	2,000. 96	0	0.055	0	0	0.0002	170 0	0.0007 0	01.00	0.055	0	0.0000000000000000000000000000000000000
Waste and Other Services Subtotal	· · ·	000100	0.0	8.500 000	0.0005	470		1,500	~	0		0	1.300.000	0.0045	<u>4 800</u>	0.005	3,000	0.0001	2,900	0	0.055	0	0	0.0002	180.	0.0067		0.052	0	0.000000.00
				3,300,000.		470.	-	1,500.					1,000,000		-,000.		3,000.		2,500.		0.000		5		100.	0.0007		0.000		
Other																														
On-site process emissions (HAPs)	lbs	0	0	0) 0	(0 0	0	0	0	0	0	0	0 0	(0	0) 0	0	0	0	0	0	0	0 0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	C) 0	(0 0	0	0	0	0	0	0	0 0	(0	0	0 0	0	0	0	0	0	0	0 0	0	0	0	0	0
Other Subtotal				0		0	2	0		0		0)	0		0		0		0		0		0	0		0		0
							-																							

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

								All Levels - T	otal On-Site a	nd Off-Site Pai	rameters - Alte	ernative 3					
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity															
		Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals			29,000,000.	600.	9,900.	6,900.	27.	6,200,000.	38,000.	25,000.	3,700.	4.	6,300.	230.	0.043	0.25	0.000064
Energy		10200	1 400 000	0		0	0	220,000	1.000	50	25	0	0	2.1			0
Diesel (on-site)	gai	10299	1,400,000.	0	0	0	0	230,000.	1,800.	56.	35.	0	0	3.1	0	0	0
Gasoline (on-site use)	gai	127.2	16,000.	0	0	0	0	2,500.	14.	0.57	0.069	0	0	0.038	0	0	0
Natural gas (on-site use)		62257	0	0	0	0	0	0	11.000	0	220	0	0	0	0	0	0
Diesel (off-site use)	gal	03357	8,800,000.	0	0	0	0	1,400,000.	1,000.	340.	220.	0	0	19.	0	0	0
Gasoline (off-site use)	gai	11483	1,400,000.	0	0	0	0	230,000.	1,300.	52.	6.2	0	0	3.4	0	0	0
Natural gas (OII-site use)		0	14 000	12	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use		13	44,000.	13.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*		13	5,300.	1.6	0	0	0	10,000	0	0	0	0 012	0	0 22	0	0 0004	0
Electricity production*	IVIVI	13	12 000,000.	0.78	95.	0	0	10,000.	14.000	87.	1.1	0.012	0	0.22	0.000034	0.0004	0.0000000011
Energy Subtotal			12,000,000.	15.	95.	0	0	1,900,000.	14,000.	540.	260.	0.012	0	26.	0.000034	0.0004	0.0000000011
Matorials																	
	lh	0200	200,000	5.2	64	0	0	28,000	45	71	11	0.02	0.015		0.0022	0.0012	0.000064
	lb Ib	9300	200,000.	5.2	04.	0	0	38,000.	45.	/1.	11.	0.02	0.015	4.4	0.0032	0.0012	0.000064
RTDPE		15200	67,000	2.2	0	0	0	17.000	21	26	0	2.8	0	1	0.0015	0.028	0
Steel	lb lb	15300	67,000.	3.2	9.8	0	0	17,000.	21.	20.	0.8	3.8	0	1.	0.0015	0.038	0.00000099
Cravel (cand			210,000	15	720	0	0	28,000	100	170	22	0	0	0.0022	0,0000036	0,000068	0
Compet Grout	dry top	02	310,000.	11	/30.	0	0	150,000.	190.	170.	25.	0	0	0.0023	0.0000038	0.000008	0.0000000000085
Concrete	tons	275	340,000.	11.	54.	0	0	130,000.	300.	170.	1.7	0.000011	0	4.0	0.0047	0.001	0.000000007
Bentonite	ton	1	500,000.	0.0027	/1.	0	0	6.7	0.022	130.	0.004	0.000011	0	4.1	0.0038	0.003	0.00000000
Regenerated GAC	lbs	0	55.	0.0027	0.13	0	0	0.7	0.033	0.03	0.004	0	0	0.0000041	0.0000000000000000000000000000000000000	0.000000012	0.0000000000000000000000000000000000000
Righterated GAC	lbs	2612100	3 400 000	13	240	0	0	1 000 000	7 800	6 800	160	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	12012100	2 200 000	13.	240.	0	0	1,000,000.	10,000	12,000	200	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lhs	0	2,200,000:	0	0	0	0	1,500,000:	10,000.	12,000.	0	0	0	0	0	0	0
Diesel Produced	gal	73656	1 400 000	43	57	0	0	200.000	470	960	25	0.027	0	8.8	0.0035	0.11	0.000000022
Gasoline Produced	gal	11610.2	240,000	6.9	92	0	0	51,000	93	220	6	0.027	0	1 9	0.0099	0.11	0.0000000022
Natural Gas Produced		0	0	0.5	0	0	0	0	0	0	0.	0.0049	0	1.5	0.00055	0.020	0.0000000000000000000000000000000000000
Groundwater Extracted On-site	gal x 1000	27	0	0	27	0	27	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	6851	63,000	3	140.	0	0	34,000	66.	40.	110	0.0057	0	0.1	0.000056	0.00046	0,00000000
Potable Water Transported	gal x 1000	6851	51.000.	4.4	32.	0	0	3.500.	3.7	30.	0.39	0.004	0	0	0.018	0.00027	0.000000002
Potable Water Used	gal x 1000	6851	0	0	6.900.	6,900.	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal	<u> </u>		8,600.000.	110.	8,300.	6.900.	27.	3,000.000.	19.000.	21.000.	550.	3.9	0.015	25.	0.036	0.2	0.000064
						_,											
Waste and Other Services																	
Off-site waste water treatment	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6300	0	0	0	0	0	0	0	0	0	0	6.300.	0	0	0	0
Hazardous Waste Disposal	ton	6300	1,100.000.	54.	1.000.	0	0	170,000.	970.	520.	2,800.	0.055	0	9.7	0.0067	0.053	0.00000083
Laboratory Analysis	\$	839100	7,400.000.	420.	470.	0	0	1,100,000.	3,800.	2,500.	96.	0	0	170.	0	0	0
Waste and Other Services Subtotal			8,500.000.	470.	1,500.	0	0	1,300.000.	4,800.	3.000.	2,900.	0.055	6.300.	180.	0.0067	0.053	0.00000083
					_,,			,,	.,	_,	_,						
Other																	
On-site process emissions (HAPs)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

												Le	vel 1 (C	On-Site) Pa	ramete	rs Used, E	ktracte	d, Emitted,	, or Ger	nerated Or	n-Site - /	Alternativ	e 3									
			E	nergy	Ele	ectricity	A	ll Water	Pota	ble Water	Grou	ndwater		CO2e		NO x		SO x		PM	Soli	d Waste	Ha	z. Waste	Air	⁻ Toxics	Me	ercury		Lead	D	vioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totalo				1 500 000		12		6.000		C 000		27		220.000		1 000		F7		25		0		C 200		2.1						
lotais				1,500,000.		13.	•	6,900.		6,900.		27.		230,000.		1,800.		57.		35.		0		6,300.		3.1		0		0		0
Energy																																
Diesel (on-site)	gal	10299	139	1,400,000	0	(0 0	0	0	0	0	0	22.5	230,000	0.17	1.800	0.0054	56.	0.0034	35	0	0	0	0	0.0003	3.1	0	0	0	0	0	0
Gasoline (on-site use)	gal	127.2	124	16.000.	0	(0 0	0	0	0	0	0	19.6	2,500.	0.11	14.	0.0045	0.57	0.0005	0.069	0	0	0	0	0.0003	0.038	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	103	0	0	(0 0	0	0	0	0	0	12	0	0.0001	0	6E-06	0	8E-06	0	0	0	0	0	0.29	C	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
On-site electricity use	MWh	13	3413	44,000.	1	13	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Electricity production*	MWh	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Energy Subtotal				1,500,000.		13.	•	0		0		0		230,000.		1,800.		57.		35.		0		0		3.1		0		0		0
Adarta vizela							-																									
	lh	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
HDPF	lb lb	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Steel	lb	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Stainless Steel	lb	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Gravel/sand	ton	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Cement Grout	dry-ton	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Concrete	tons	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Bentonite	ton	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Regenerated GAC	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	С	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	С	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Natural Gas Produced	gai	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	27	0	0	0	(0 0 0 1	27	0	0	1	27	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Used	gal x 1000	6851	0	0	0	(0 1	6,900.	1	6,900.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	(0 1	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Materials Subtotal				0		0)	6,900.		6,900.		27.		0		0		0		0		0		0		0		0		0		0
Waste and Other Services		-																														
Off-site waste water treatment	gal x 1000	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Hazardous Wasta Congration	ton	6200	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6 200	0	(0	0	0	0	0	0
Hazardous Waste Disposal	ton	0300	0	0	0	(0	0	0	0		0	0	0	0	0	0	0	0	0	1	0,300. A	0		0	0	0	0	0	0
Laboratory Analysis	\$	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0
Waste and Other Services Subtotal				0		0)	0		0		0		0		0		0		0		0		6,300.		0		0		0		0
																								-								
Other																																
On-site process emissions (HAPs)	lbs	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	<u> </u>	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	(0 0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal				0		0	/	0		0		0		0		0		0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

												Le	vel 1 (C	Dn-Site) Pa	ramete	ers Used, E	Extracte	d, Emitted	, or Gen	nerated Of	ff-Site -	Alternativ	e 3									
			E	Energy Electricity All Water						ble Water	Gro	undwater		CO2e		NO x		SO x		PM	Soli	d Waste	Ha	z. Waste	Air	Toxics	Me	ercurv		Lead	D	ioxins
		Quantity	Conv.	onv. Conv. Conv.					Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	,	Conv.		Conv.	
		Used	Factor	r Used Factor Used Factor Used				Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu MWh gal x 1000						gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0			0	0		0		0		0		0)	0		0		0		0		0		0		0		0
								L																								
Energy		10200	0				0								0								0		0		0				0	
Diesel (on-site)	gal	10299	0	0	0				0	0	0	0	0 0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	127.2	0	0	0					0	0	0	0 0	0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	cct	0	120	0	0					0	0	0		0	0 17			0	0 0024	0	0	0	0	0	0 0002	0	0	0	0	0	0	0
Gasoling (off site use)	gal	0	139	0	0					0	0	0	10.6	0	0.17		0.0054	0	0.0034	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Natural gas (off-site use)	gai	0	102	0	0					0	0	0	19.0	0	0.11			0	0.0005	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
O_{P} -site electricity use		12	105	0	0					0	0	0		0	0.0001			0	0E-00	0	0	0	0	0	0.29	0	0	0	0	0	0	0
Electricity transmission*	MW/h	0	410	0	0 12					0	0	0		0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWb	0	7800	0	0.12					0	0	0	800	0	0.84			0	0.087	0		0	0	0	0.017	0	35-06	0	35-05	0	9F-12	0
Energy Subtotal		0	7800	0	0.00		0 7.3		, 0	0	0	0	800	0	0.84		0.7	0	0.087	0	0.0009	0	0	0	0.017	0	31-00	0	31-03	0	JL-12	0
								, v						0			/							0								
Materials								-																								
PVC	lb	0	22	0	0.0006		0 0.0069) (0	0	0	0	4.1	0	0.0048	(0.0076	0	0.0012	0	2F-06	0	2F-06	0	0.0005	0	3F-07	0	1F-07	0	7F-09	0
HDPE	lb	0	31	0	0.0003		0 0.0023	3 0	0	0	0	0	1.9	0	0.0032		0.0041	0	0.0006	0	4E-07	0	1E-06	0	3E-06	0	3E-09	0	2E-09	0	1E-09	0
Steel	lb	0	4.4	0	0.0002		0 0.0006	5 C	0	0	0	0	1.1	0	0.0014		0.0017	0	0.0006	0	0.0003	0	0	0	7E-05	0	1E-07	0	3E-06	0	7E-12	0
Stainless Steel	lb	0	11.6	0	0.0006		0 0.0023	3 C	0	0	0	0	3.4	0	0.0075	(0 0.012	0	0.0044	0	0.0006	0	0	0	0.0001	0	0	0	5E-07	0	2E-12	0
Gravel/sand	ton	0	55	0	0.0027		0 0.13	3 C	0	0	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Cement Grout	dry-ton	0	4100	0	0.13		0 0.41	1 C	0 0	0	0	0	1800	0	3.6	(0 2.1	0	0.0063	0	0	0	0	0	0.058	0	6E-05	0	0.0001	0	9E-11	0
Concrete	tons	0	793	0	0.026		0 0.19) C	0 0	0	0	0	335	0	0.68	(0.41	0	0.0044	0	3E-08	0	0	0	0.011	0	1E-05	0	2E-05	0	2E-11	0
Bentonite	ton	0	55	0	0.0027		0 0.13	3 C	0 0	0	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Regenerated GAC	lbs	0	9.6	0	0.0004		0 0.0064	4 C	0 0	0	0	0	2	0	0.025	(0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	1.31	0	5E-06		0 9E-05	5 0	0 0	0	0	0	0.4	0	0.003	(0.0026	0	6E-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	0	0		0 0) (0 0	0	0	0	1.1	0	0.0083	(0.0099	0	0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	0	6E-05		0 2E-05	5 C	0 0	0	0	0	3.51	0	0.0265	(0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	18.5	0	0.0006		0.0008	З С	0 0	0	0	0	2.7	0	0.0064	(0.013	0	0.0003	0	4E-07	0	0	0	0.0001	0	5E-08	0	2E-06	0	3E-14	0
Gasoline Produced	gal	0	21	0	0.0006	(0.0008	з с	0	0	0	0	4.4	0	0.008	(0.019	0	0.0005	0	4E-07	0	0	0	0.0002	0	9E-08	0	2E-06	0	3E-14	0
Natural Gas Produced	ccf	0	5.2	0	0.0003		0 8E-05	5 C	0	0	0	0	2.2	0	0.0037	(0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	27	0	0	0		0 0) (0 0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	9.2	0	0.0004		0 0.021	1 C	0	0	0	0	5	0	0.0097	(0.0059	0	0.016	0	8E-07	0	0	0	2E-05	0	8E-09	0	7E-08	0	1E-13	0
Potable Water Transported	gal x 1000	0	7.4	0	0.0006		0 0.0047	7 C	0	0	0	0	0.5168	0	0.0005	(0.0043	0	6E-05	0	6E-07	0	0	0	0	0	3E-06	0	4E-08	0	3E-14	0
Potable Water Used	gal x 1000	6851	0	0	0	(0 0	D C	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	(0 0	0 0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal				0		(0	0		0		0		0		0	,	0		0		0		0		0		0		0		0
								L																								
waste and Other Services		0	0.7		0.0000		0 0 0000								0.0004		0.0000		05.05		FF 07				0.0004		05.00		65.07		15 40	
Off-site waste water treatment	gai x 1000	0	3.7	0	0.0002		0 0.0008		0	0	0	0	3	0	0.0061	(0.0029	0	8E-05	0	5E-07	0	0	0	0.0001	0	8E-08	0	6E-07	0	1E-12	0
Solid Waste Generation	ton	0	0	0	0					0	0	0		0	0			0	0	0		0	0	0	0	0	15.00	0		0	0	0
Solid Waste Disposal	ton	6200	160	0	0.0077		0 0.15		0	0	0	0	25	0	0.14	(0.075	0	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0300	170	0	0 0005				0	0	0	0	275	0	0.154			0	0.44	0		0	0	0	0.0015	0	15.00	0		0	15 11	0
Laboratory Analysis	Ś	0	8.8	0	0.0005		0 0 0006			0	0	0	27.5	0	0.0045	(0.0823	0	0.0001	0	92-06	0	0	0	0.0013	0	0-11	0	00-38	0	0	0
Waste and Other Services Subtotal	4	~	0.0	0	0.0005	(0	n	U	0	0	n	1.5	n	0.0045		0.003	0	0.0001	0	0	0	0	0	0.0002	0	0	0		0	0	0
										0								0														
Other																																
On-site process emissions (HAPs)	lbs	0	0	0	0		0 0	0 0	0 0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0		0 0	0 0	0 0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal				0		(0	0		0		0		0		0)	0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

						I	Level 1 (On-Sit	te) Total On-Sit	e and Off-Site	e Parameters -	Alternative 3						
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	РМ	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals			1,500,000.	13.	6,900.	6,900.	27.	230,000.	1,800.	57.	35.	0	6,300.	3.1	0	0	0
Energy																	
Diesel (on-site)	gal	10299	1,400,000.	0	0	0	0	230,000.	1,800.	56.	35.	0	0	3.1	0	0	0
Gasoline (on-site use)	gal	127.2	16,000.	0	0	0	0	2,500.	14.	0.57	0.069	0	0	0.038	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	13	44,000.	13.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtotal	1		1,500,000.	13.	0	0	0	230,000.	1,800.	57.	35.	0	0	3.1	0	0	0
Materials																	
PVC	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HDPE	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steel	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stainless Steel	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gravel/sand	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement Grout	dry-ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	tons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bentonite	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regenerated GAC	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	27	0	0	27.	0	27.	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Used	gal x 1000	6851	0	0	6,900.	6,900.	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal	1		0	0	6,900.	6,900.	27.	0	0	0	0	0	0	0	0	0	0
												L 1					
Waste and Other Services								_									
Off-site waste water treatment	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6300	0	0	0	0	0	0	0	0	0	0	6,300.	0	0	0	0
Hazardous Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis	Ş	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtotal			0	0	0	0	0	0	0	0	0	0	6,300.	0	0	0	0
Other			+ +	H - H	+ +		+ +		1 1	+ +	+ +	+ +	I	+ +	+ +		
On-site process emissions (HABs)	lbc	0															0
On site process emissions (CHCs)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGS)		U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

												Lev	el 2 (Tr	ansport.) F	Parame	ters Used,	Extract	ed, Emitte	ed, or G	enerated (On-Site	- Alternat	ive 3									
			E	nergy	El	ectricity		All Water	Pota	ble Water	Gro	undwater		CO2e		NO x		SO x		PM	Sol	id Waste	На	z. Waste	Ai	ir Toxics	м	lercurv		Lead		Dioxins
		Quantity	Conv.	01	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
								_																								
Totals				0			0	0		0)	0		0		0		0)	0		0		0		0		0		0		0
Energy																																
Diesel (on-site)	gal	0	139	0	0 0		0 0	0 0	0 0	(0 0	0	22.5	C	0.17	(0.0054	C	0.0034	0	0	0	0	0	0.0003	C	0	0	0 0	0	0	0
Gasoline (on-site use)	gal	0	124	0	0 0		0 0		0 0	(0 0	0	19.6	C	0.11	(0.0045	0	0.0005	0	0	0	0	0	0.0003	C	0	0	0 0	0	0	0
Natural gas (on-site use)	ccf	0	103	0	0 0		0 0		0 0	(0 0	0	12	0	0.0001	() 6E-06	0	0 8E-06	0	0	0	0	0	0.29	0	0	0	0 0	0	0	0
Diesel (off-site use)	gai	63357	0	0			0 0			(0	0	0	0	(0		0	0	0	0	0	0	0	0	0		0	0	0
Gasoline (off-site use)	gal	11483	0	0						(0	0	0	0	(0	0	0	0	0	0	0	0	0		0	0	0
Natural gas (off-site use)		0	2412	0								0	0	0	0	(0		0	0	0	0	0	0		0	0		0	0	0
Chestricity transmission*		12	3413	0								0	0	0	0	(0		0	0	0	0	0	0	0	0	0		0	0	0
Electricity transmission*		15	0	0								0	0		0					0	0	0	0	0	0		0	0		0	0	0
Electricity production		0	0	0								0	0		0	0	, 0	0		0	0	0	0	0	0		0	0		0	0	0
				0				0		0		0		0		0		0	,	0		0		0		0		0		0		0
Materials								-																								
PVC	lh	0	0	0			0 0			(0	0	0	0	(0	0	0	0	0	0	0	0	0		0	0	0
HDPF	lb	0	0	0						(0	0	0	0	(0		0	0	0	0	0	0	0	0	0		0	0	0
Steel	lb	0	0	0			0 0		$\frac{1}{2}$			0	0	0	0	(0		0	0	0	0	0	0	0	0	0		0	0	0
Stainless Steel	lb	0	0	0			0 0) 0	(0	0		0	() 0	C		0	0	0	0	0	0	0	0	0		0	0	0
Gravel/sand	ton	0	0	0	0 0		0 0		0 0	(0 0	0	0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Cement Grout	dry-ton	0	0	0) 0		0 0		0 0	(0 0	0	0	0	0	() 0	C	0 0	0	0	0	0	0	0	C	0	0) 0	0	0	0
Concrete	tons	0	0	0) 0		0 0	D C	0 0	(0 0	0	0	C	0	() 0	C	0 0	0	0	0	0	0	0	C	0	0) 0	0	0	0
Bentonite	ton	0	0	0) 0		0 (D C	0 0	(0 0	0	0	C	0	() 0	C	0 0	0	0	0	0	0	0	C	0	0) 0	0	0	0
Regenerated GAC	lbs	0	0	C) 0		0 0	0 0	0 0	(0 0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0) 0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0) 0		0 0	D C	0 0	(0 0	0	0	C	0	() 0	C	0 0	0	0	0	0	0	0	C	0	0) 0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	C) 0		0 0	D C	0 0	(0 0	0	0	0	0	() 0	C	0 0	0	0	0	0	0	0	C	0	0) 0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	C	0 0		0 0	0 0	0 0	(0 0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Diesel Produced	gal	0	0	0	0 0		0 0	0 0	0 0	(0 0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Gasoline Produced	gal	0	0	0	0 0		0 (0 0	0 0	(0 0	0	0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Natural Gas Produced	ccf	0	0	C	0 0		0 0	0 0	0 0	(0 0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0 0		0 1	1 C	0 0	() 1	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0 0		0 0	0 0	0 0	(0 0	0	0	C	0	() 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Potable Water Transported	gal x 1000	6851	0	0	0 0		0 0	0 0	0 0	(0 0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Potable Water Used	gal x 1000	0	0	0	0		0 1		<u>) 1</u>	(0	0	0	0	0	(0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utner Un-Site Water Used	gal x 1000	0	0	0	0		0 1		0 0	(0 0	0	0	0	0	(0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal				0			U	0		0		0		0		0		0	,	0		0		0		0		0		0		0
Masto and Other Commission																																
Off site waste water treatment	gal v 1000	0	0				0						0		0										0							
Solid Waste Concretion	gai x 1000	0	0	0								0	0		0	(0	0	0	0	0	0		0	0		0	0	0
Solid Waste Disposal	ton	0	0									0	0		0					0		0	0	0	0		0	0		0	0	0
Hazardous Waste Generation	ton	0	0									0	0		0	(0	0	0	1	0	0			0		0	0	0
Hazardous Waste Disposal	ton	0	0	0			0 0			((0	0		0	(0	0	0		0	0			0		0	0	0
Laboratory Analysis	\$	0	0	0			0 0			(0	0		0	(0	0	0	0	0	0		0	0		0	0	0
Waste and Other Services Subtotal	Ŷ	0	0	0			0					0	0		0			n		0	0	0	0	0	0	n	0	0		0	0	0
				0			-	ľ								0		0		0												
Other								<u> </u>		ļ																						
On-site process emissions (HAPs)	lbs	0	0	0	0		0 (0 0	0 0	(0 0	0	0	0	0	(0	C	0 0	0	0	0	0	0	1	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0 0		0 0) (0 0	(0	1	0	0	(0	0	0 0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Other Subtotal	_			0			0	0		0		0		0		0		0)	0		0		0		0		0		0		0
								-			-	•		•																		

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

												Leve	el 2 (Tr	ansport.) P	arame	ters Used,	Extract	ed, Emitte	d, or Ge	enerated C	Off-Site	- Alternat	ive 3									
			E	Energy Electricity A				ll Water	Potab	le Water	Gro	undwater		CO2e		NO x		SO x	F	PM	Soli	d Waste	На	az. Waste	Aiı	r Toxics	Me	ercury	Le	ead	D	ioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				10 000 000		6		22		0		0		1 600 000		12 000		420		220		0.004		0		22		0.010		0.00027		0.000000000
				10,000,000.		6.	•	32.		0		0		1,600,000.		12,000.		420.		230.		0.004		0		22.		0.018		0.00027		0.000000002
Energy																																
Diesel (on-site)	σal	0	0	0	0			0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Gasoline (on-site use)	gai	0	0	0	0			0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0			0	0	0	0	0		0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	63357	139	8,800,000	0	(0	0	0	0	0	22.5	1,400,000	0.17	11.000	0.0054	340.	0.0034	220.	0	0	0	0	0.0003	19.	0	0	0	0	0	0
Gasoline (off-site use)	gal	11483	124	1,400,000	0			0	0	0	0	0	19.6	230,000	0.11	1,300	0.0045	52	0.0005	6.2	0	0	0	0	0.0003	3.4	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	103	0	0			0	0	0	0	0	12	0	0.0001		6F-06	0	8F-06	0.2	0	0	0	0	0.29	0	0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0	(0	0	0	0	0	0	0	0.0001	C	01 00	0	0	0	0	0	0	0	0.29	0	0	0	0	0	0	0
Electricity transmission*	MWh	13	410	5.300.	0.12	1.6	6 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	7800	0	0.06	0	0 7.3	0	0	0	0	0	800	0	0.84	C	6.7	0	0.087	0	0.0009	0	0	0	0.017	0	3E-06	0	3E-05	0	9E-12	0
Energy Subtota	1			10,000,000.		1.6	5	0	_	0		0		1,600,000.		12,000.		390.		230.		0		0		22.		0		0		0
																										-		-				
Materials																																
PVC	lb	0	22	0	0.0006	(0.0069	0	0	0	0	0	4.1	0	0.0048	C	0.0076	0	0.0012	0	2E-06	0	2E-06	0	0.0005	0	3E-07	0	1E-07	0	7E-09	0
HDPE	lb	0	31	0	0.0003	(0 0.0023	0	0	0	0	0	1.9	0	0.0032	C	0.0041	0	0.0006	0	4E-07	0	1E-06	0	3E-06	0	3E-09	0	2E-09	0	1E-09	0
Steel	lb	0	4.4	0	0.0002	C	0.0006	0	0	0	0	0	1.1	0	0.0014	C	0.0017	0	0.0006	0	0.0003	0	0	0	7E-05	0	1E-07	0	3E-06	0	7E-12	0
Stainless Steel	lb	0	11.6	0	0.0006	C	0.0023	0	0	0	0	0	3.4	0	0.0075	C	0.012	0	0.0044	0	0.0006	0	0	0	0.0001	0	0	0	5E-07	0	2E-12	0
Gravel/sand	ton	0	55	0	0.0027	C	0 0.13	0	0	0	0	0	6.7	0	0.033	C	0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Cement Grout	dry-ton	0	4100	0	0.13	C	0 0.41	0	0	0	0	0	1800	0	3.6	C	2.1	0	0.0063	0	0	0	0	0	0.058	0	6E-05	0	0.0001	0	9E-11	0
Concrete	tons	0	793	0	0.026	C	0 0.19	0	0	0	0	0	335	0	0.68	C	0.41	0	0.0044	0	3E-08	0	0	0	0.011	0	1E-05	0	2E-05	0	2E-11	0
Bentonite	ton	0	55	0	0.0027	C	0 0.13	0	0	0	0	0	6.7	0	0.033	C	0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Regenerated GAC	lbs	0	9.6	0	0.0004	C	0.0064	0	0	0	0	0	2	0	0.025	C	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	1.31	0	5E-06	C	0 9E-05	0	0	0	0	0	0.4	0	0.003	C	0.0026	0	6E-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	0	0	C	0 0	0	0	0	0	0	1.1	0	0.0083	C	0.0099	0	0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	0	6E-05	0	0 2E-05	0	0	0	0	0	3.51	0	0.0265	C	0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	18.5	0	0.0006	0	0.0008	0	0	0	0	0	2.7	0	0.0064	C	0.013	0	0.0003	0	4E-07	0	0	0	0.0001	0	5E-08	0	2E-06	0	3E-14	0
Gasoline Produced	gal	0	21	0	0.0006	C	0.0008	0	0	0	0	0	4.4	0	0.008	C	0.019	0	0.0005	0	4E-07	0	0	0	0.0002	0	9E-08	0	2E-06	0	3E-14	0
Natural Gas Produced	ccf	0	5.2	0	0.0003	0	0 8E-05	0	0	0	0	0	2.2	0	0.0037	0	0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0		0 0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	9.2	0	0.0004	0	0 0.021	0	0	0	0	0	5	0	0.0097	C	0.0059	0	0.016	0	8E-07	0	0	0	2E-05	0	8E-09	0	7E-08	0	1E-13	0
Potable Water Transported	gal x 1000	6851	7.4	51,000.	0.0006	4.4	4 0.0047	32.	0	0	0	0	0.5168	3,500.	0.0005	3.7	0.0043	30.	6E-05	0.39	6E-07	0.004	0	0	0	0	3E-06	0.018	4E-08	0.00027	3E-14	J.000000002
Potable Water Used	gal x 1000	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Un-Site Water Used	gai x 1000	U	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
iviateriais Subtota	/			51,000.		4.4	ŀ	32.		0		0		3,500.		3.7		30.		0.39		0.004		0		0		0.018		0.00027		0.0000000002
Waste and Other Semilar																																
Off site waste water treatment	gal x 1000	0	27		0.0002		0.0000		0		0		2		0.0061		0.0020	0	RE OF		55.07				0.0001	0	8E 09		65.07		15 12	
Solid Waste Constation	gai x 1000	0	5.7	0	0.0002			0	0	0	0	0	5	0	0.0001		0.0029	0	0E-05	0	5E-07	0	0	0	0.0001	0	0E-00	0	02-07	0	16-12	0
Solid Waste Disposal	ton	0	160	0	0 0077			0	0	0	0	0	25	0	0.14		0.075	0	0.4	0	8E_06	0	0		0.0014	0	15-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0	100	0	0.0077	r (0	0	0	0	0	23	0	0.14		0.075	0	0.4	0	01-00	0	0	0	0.0014	0	00-11	0	0	0	11-11	0
Hazardous Waste Disposal	ton	0	176	0	0.0085	C	0 165	0	0	0	0	0	27.5	0	0.154		0.0825	0	0.44	0	9E-06	0	0	0	0.0015	0	1E-06	0	8E-06	0	1E-11	0
Laboratory Analysis	\$	0	88	0	0.0005	((0.0006	0	0	0	0	0	1 3	0	0.0045		0.003	0	0.0001	0	0	0	0	0	0.0002	0	0	0	02.00		10 11	0
Waste and Other Services Subtota	/	0	0.0	0	0.0005		0.0000		0	0	0	0	1.5	0	0.0045	n	0.005	0	0.0001	0	0	0	0	0	0.0002	0	U	0	0		0	0
	·			0		0				0						0						0										
Other	+																															
On-site process emissions (HAPs)	lbs	0	0	0	0	ſ	0 0	0	0	0	0	n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtota	1	-		0	5	0)	0		0	5	0		0		0	-	0		0	-	0		0	-	0	-	0		0	-	0
				-						-								-		2								-		-		

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

<table-container> her fer len len</table-container>								Le	vel 2 (Transpo	rt.) Total On-S	ite and Off-Si	ite Parameters	- Alternative 3	3				
berto berto <t< td=""><td></td><td></td><td></td><td>Energy</td><td>Electricity</td><td>All Water</td><td>Potable Water</td><td>Groundwater</td><td>CO2e</td><td>NO x</td><td>SO x</td><td>РМ</td><td>Solid Waste</td><td>Haz. Waste</td><td>Air Toxics</td><td>Mercury</td><td>Lead</td><td>Dioxins</td></t<>				Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	РМ	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
Her Image			Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
body body <th< td=""><td></td><td></td><td></td><td>Mbtu</td><td>MWh</td><td>gal x 1000</td><td>gal x 1000</td><td>gal x 1000</td><td>lbs</td><td>lbs</td><td>lbs</td><td>lbs</td><td>tons</td><td>tons</td><td>lbs</td><td>lbs</td><td>lbs</td><td>lbs</td></th<>				Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Imbi Imbi <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																		
Contropy C C C C<	Totals			10,000,000.	6.	32.	0	0	1,600,000.	12,000.	420.	230.	0.004	0	22.	0.018	0.00027	0.000000002
Image Image <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		
bend bend bend bend bend bend bend bend	Energy																	
basic signed scale gene gene </td <td>Diesel (on-site)</td> <td>gal</td> <td>0</td>	Diesel (on-site)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stands of of of of	Gasoline (on-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
uncl org i.e. i.e. <th< td=""><td>Natural gas (on-site use)</td><td>ccf</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Generic scale generic	Diesel (off-site use)	gal	63357	8,800,000.	0	0	0	0	1,400,000.	11,000.	340.	220.	0	0	19.	0	0	0
Nand age/sing off Con	Gasoline (off-site use)	gal	11483	1,400,000.	0	0	0	0	230,000.	1,300.	52.	6.2	0	0	3.4	0	0	0
braine straining weight of the strain of the str	Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
interchy matrix MM I J J J L <thl< th=""> L L</thl<>	On-site electricity use	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
betw i <td>Electricity transmission*</td> <td>MWh</td> <td>13</td> <td>5,300.</td> <td>1.6</td> <td>0</td>	Electricity transmission*	MWh	13	5,300.	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0
Interse	Electricity production*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Image: Probability Image:	Energy Subtotal			10,000,000.	1.6	0	0	0	1,600,000.	12,000.	390.	230.	0	0	22.	0	0	0
Match Match Match <																		
PVC In O	Materials																	
Hore Ib O O O O	PVC	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stell Ib 0 <td>HDPE</td> <td>lb</td> <td>0</td>	HDPE	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stanies Seie! b 0 <	Steel	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Granel/sand On	Stainless Steel	lb	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cament Grout drym 0	Gravel/sand	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancrete Ibs 0 0 0 0	Cement Grout	dry-ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benchrith Nn O	Concrete	tons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regenerated GAC Ibs 0	Bentonite	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Biningtant (Malsases) Ibs 0 <td>Regenerated GAC</td> <td>lbs</td> <td>0</td>	Regenerated GAC	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
bioingicini (hese Mhey) lbs 0<	Bioinjection (Molasses)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
bining chaine (bining (Bioinjection (Cheese Whey)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diese Producedgal00 <td>Bioinjection (Vegetable Oil)</td> <td>lbs</td> <td>0</td>	Bioinjection (Vegetable Oil)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced gal 0	Diesel Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced cf 0.0 0.00 0.	Gasoline Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundware Extracted On-site gla 100 0.0 0.00 <td>Natural Gas Produced</td> <td>ccf</td> <td>0</td>	Natural Gas Produced	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced gal x1000 6851 551,000 4.4 32. 0 0 3.7 3.0. 0.3.9 0.0.4 0.0.0 0.0.000000000000000000000000000000000	Groundwater Extracted On-site	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported gal x 1000 6651 51,000 4.4 32. $(0,0)$ $(3,0)$	Potable Water Produced	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Used gla 1000 0<	Potable Water Transported	gal x 1000	6851	51,000.	4.4	32.	0	0	3,500.	3.7	30.	0.39	0.004	0	0	0.018	0.00027	0.000000002
Other On-Site Water Usedgal x 100 <th< td=""><td>Potable Water Used</td><td>gal x 1000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	Potable Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials SubtralMS1,000S1,000MS1,000MS1,000 <td>Other On-Site Water Used</td> <td>gal x 1000</td> <td>0</td>	Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Image: serie s	Materials Subtotal			51,000.	4.4	32.	0	0	3,500.	3.7	30.	0.39	0.004	0	0	0.018	0.00027	0.000000002
Waste and Other Services																		
Off-site waste water treatmentgal x 100 </td <td>Waste and Other Services</td> <td></td>	Waste and Other Services																	
Solid Waste Generationton000<	Off-site waste water treatment	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposalton000 <th< td=""><td>Solid Waste Generation</td><td>ton</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generationton000 </td <td>Solid Waste Disposal</td> <td>ton</td> <td>0</td>	Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposalton000 <td>Hazardous Waste Generation</td> <td>ton</td> <td>0</td>	Hazardous Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis \$ 0 0 \$	Hazardous Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtoral Image: Constraint of the services Subtoral	Laboratory Analysis	\$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Image: Second	Waste and Other Services Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
	Other																	
On-site process emissions (HAPs) Ibs 0	On-site process emissions (HAPs)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs) lbs CO2e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal 0	Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Le	vel 3 (C	Off-Site) Pa	ramete	ers Used, I	Extracte	d, Emitted	d, or Gene	erated Or	n-Site -	Alternativ	'e 3									
			Er	nergy	Ele	ectricity		All Water	Pota	ble Water	Grou	undwater		CO2e		NO x		SO x	Р	PM	Soli	d Waste	На	z. Waste	Ai	ir Toxics	Me	ercurv		Lead	L C	Dioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0			0	0		0		0		0		()	0)	0		0		0		0		0		0		0
Energy																																
Diesel (on-site)	gal	0	139	C	0 0		0 (0 0	0 0	0	0	C	22.5	C	0.17		0.0054	C	0 0.0034	0	0	0	0	0	0.0003	C	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	124	C	0 0		0 (0 0	0 0	0	0	C	19.6	C	0.11	(0.0045	C	0.0005	0	0	0	0	0	0.0003	C	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	103	C	0 0		0 (0 0	0 0	0	0	C	12	C	0.0001		0 6E-06	C	0 8E-06	0	0	0	0	0	0.29	C	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	C	0 0		0 (0 0	0	0	0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	С	0 0		0 (0 0	0 0	0	0	C	0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Natural gas (off-site use)	cct	0	0	0	0 0		0 (0 0	0 0	0	0	0	0 0	C	0		0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	3413				0 (0 0	0	0	0	0 0	0	0		0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	NWh	0	0				0 0		0 0	0	0	0	0 0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	NWN	13	0		0 0				0 0	0	0		0		0		0 0	0		0	0	0	0	0	0		0	0	0	0	0	0
Energy Subtotal				0			0	0		0		0		0		Ľ	,	0		0		0		U		0		0		U		0
Matorials																																
	lh	0200	0				0 (0	0		0		0				0 0	0	0	0	0	0	0			0	0	0	0	0
	lb lb	9300	0							0	0									0	0	0	0	0	0			0	0	0	0	0
Steel	lb lb	15300	0							0	0									0	0	0	0	0	0			0	0	0	0	0
Steel Stainless Steel	lb	13300	0	C						0	0							0		0	0	0	0	0	0			0	0	0	0	0
Gravel/sand	ton	5651	0				0 0			0	0				0			0		0	0	0	0	0	0			0	0	0	0	0
Cement Grout	dry-ton	82	0				0 0			0	0				0			0		0	0	0	0	0	0			0	0	0	0	0
Concrete	tons	375	0	C			0 0		0	0	0	0	0 0		0			C		0	0	0	0	0	0	0	0	0	0	0	0	0
Bentonite	ton	1	0	C) 0		0 (0 0	0	0	0	C	0	C	0		0 0	0	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Regenerated GAC	lbs	0	0	C) 0		0 (0 0	0 0	0	0	C	0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	2612100	0	C	0 0		0 (0 0	0 0	0	0	C	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	1201000	0	C) 0		0 (0 0	0 0	0	0	C	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	C	0 0		0 (0 C	0 0	0	0	C	0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Diesel Produced	gal	73656	0	C	0 0		0 (0 0	0 0	0	0	C	0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Gasoline Produced	gal	11610.2	0	C	0 0		0 (0 0	0 0	0	0	C	0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Natural Gas Produced	ccf	0	0	C	0 0		0 (0 0	0 0	0	0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	C	0 0		0 1	1 0	0 0	0	1	C	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Produced	gal x 1000	6851	0	C	0 0		0 (0 0	0 0	0	0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	C	0 0		0 (0 0	0 0	0	0	C	0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Used	gal x 1000	0	0	C	0 0		0 1	1 0	0 1	0	0	0	0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	C	0 0		0 1	1 0	0 0	0	0	0	0	C	0		0 0	0	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Materials Subtotal				0			0	0		0		0		0)	0	7	0		0		0		0		0		0		0
Maste and Other Consistent																																
Waste and Other Services		0	0				0 (0								0 0	0	0	0		0	0			0	0	0	0	0
Off-site waste water treatment	gal x 1000	0	0				0 (0	0		0 0		0			0		0	0	0	0	0	0		0	0	0	0	0	0
Solid Waste Disposal	ton	0	0							0	0		0		0					0	1	0	0	0	0		0	0	0	0	0	0
Hazardous Waste Congration	ton	0	0							0	0		0		0					0	0	0	0	0	0		0	0	0	0	0	0
Hazardous Waste Disposal	ton	6300	0							0	0									0	0	0		0	0			0	0	0	0	0
Laboratory Analysis	ć	830100	0							0	0									0	0	0	0	0	0			0	0	0	0	0
Waste and Other Services Subtotal	ې	009100	0		, 0		0		, 0	0	0		0		0				2	0	0	0	0	0	0			0	0	0	0	0
waste and other services subtotal				0			<u> </u>			0		0				L		0		0		0		0				0		0		0
Other																																
On-site process emissions (HAPs)	lbs	0	0	() 0		0 (0	0	n	0	0	0	ſ	0		0 0	0	0 0	0	0	0	0	0	1	ſ	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	C) 0		0 () (0	0	0	0	0 1		0		0 0		0 0	0	0	0	0	0	0		0	0	0	0	0	0
Other Subtotal		-	Ū	0	3		0	0	5	0	<u> </u>	0		0	3	()	0	2	0	Ū	0	5	0	5	0	Ū	0	5	0	5	0
								-												-		-		-				-		-		

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

												Le	vel 3 (0	Off-Site) Pa	ramete	rs Used, E	xtracted	d, Emitted	, or Gei	nerated Of	f-Site -	Alternativ	e 3								
			E	Energy Electricity All Wat			ll Water	Pota	ble Water	Gro	undwater		CO2e		NO x		SO x		РМ	Sol	id Waste	Ha	z. Waste	Air T	Foxics Me	ercury		Lead	D	ioxins	
		Quantity	Conv.	onv. Conv. Con			Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	С	Conv.	Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated Fa	actor	Emitted Factor	Released	Factor	Released	Factor	Released
				Mbtu MWh g			gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs	lbs		lbs		lbs	
Totals				17,000,000.		580.		3,000.		0		0		4,300,000.		24,000.		24,000.		3,500.		4.		0.015		210.	0.025		0.25		0.000064
Energy																															
Diesel (on-site)	gal	0	0	0) 0	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0) C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0) C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Diesel (off-site use)	gal	0	139	0	0 0	0	0 0	0	0	0	0	0	22.5	C	0.17	0	0.0054	0	0.0034	0	0	0	0	0.0	.0003	0 0	0	0	0	0	0
Gasoline (off-site use)	gal	0	124	0	0 0	0	0 0	0	0	0	0	0	19.6	C	0.11	0	0.0045	0	0.0005	0	0	0	0	0.0	0.0003	0 0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	103	0	0 0	0	0 0	0	0	0	0	0) 12	. C	0.0001	0	6E-06	0	8E-06	0	0	0	0	0	0.29	0 0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Electricity transmission*	MWh	0	410	0	0.12	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Electricity production*	MWh	13	7800	100,000.	. 0.06	0.78	7.3	95.	0	0	0	0	800	10,000	0.84	11.	6.7	87.	0.087	1.1	0.0009	0.012	0	0	0.017	0.22 3E-06	0.000034	3E-05	0.0004	9E-12	0.0000000011
Energy Subtotal				100,000.		0.78		95.		0		0		10,000.		11.		87.		1.1		0.012		0		0.22	0.000034		0.0004		0.0000000011
														L																	
Materials					0.000		0.000								0.000																
PVC	lb	9300	22	200,000.	. 0.0006	5.2	0.0069	64.	0	0	0	0) 4.1	. 38,000	0.0048	45.	0.0076	71.	0.0012	11.	2E-06	0.02	2E-06	0.015 0	0.0005	4.4 3E-07	0.0032	1E-07	0.0012	7E-09	0.000064
HDPE	lb	0	31	0	0.0003	0	0.0023	0	0	0	0	0	1.9		0.0032	0	0.0041	0	0.0006	0	4E-07	0	1E-06	0	3E-06	0 3E-09	0	2E-09	0	1E-09	0
Steel	lb	15300	4.4	67,000.	. 0.0002	3.2	0.0006	9.8	0	0	0	0	0 1.1	. 17,000.	0.0014	21.	0.0017	26.	0.0006	8.6	0.0003	3.8	0	0	7E-05	1. 1E-07	0.0015	3E-06	0.038	7E-12	0.000000099
Stainless Steel	di	0	11.6	0	0.0006	0	0.0023	0	0	0	0	0	3.4		0.0075	0	0.012	0	0.0044	0	0.0006	0	0	0 0.	0.0001	0 0	0	5E-07	0	2E-12	0
Gravel/sand	ton	5651	55	310,000.	. 0.0027	15.	0.13	/30.	0	0	0	0	6.7	38,000	0.033	190.	0.03	170.	0.004	23.	0	0	0	0 4	4E-07	0.0023 6E-11	0.0000036	1E-09	0.0000068	2E-16	0.0000000000085
Cement Grout	dry-ton	82	4100	340,000.	. 0.13	11.	0.41	34.	0	0	0	0		150,000	3.6	300.	2.1	170.	0.0063	0.52	0	0	0	0	0.058	4.8 6E-05	0.0047	0.0001	0.011	9E-11	0.000000007
Concrete	tons	375	/93	300,000.	0.026	9.8	0.19	/1.	0	0	0	0	335	130,000	0.68	260.	0.41	150.	0.0044	1.7	3E-08	0.000011	0	0	0.011	4.1 IE-05	0.0038	2E-05	0.009	2E-11	0.000000006
Bentonite	ton	1	55	55.	0.0027	0.0027	0.13	0.13	0	0	0	0	0 6.7	6.7	0.033	0.033	0.03	0.03	0.004	0.004	0	0	0	0 4	4E-07 0	J.00000041 6E-11 (0.00000000064	1E-09	0.000000012	2E-16	0.0000000000000015
Regenerated GAC	lbs	0	9.0	2 400 000	5 0.0004	12	0.0064	240	0	0	0	0			0.025	7 900	0.015	6 800		160	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Molasses)	IDS	1201000	1.31	3,400,000.	. <u>5E-06</u>	13.	9E-05	240.	0	0	0	0	0 0.4	1,000,000	0.003	7,800.	0.0026	12,000	00000	160.	0	0	0	0	0	0 0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	1201000	1.07	2,200,000.		0		0	0	0	0	0	2 5 1	1,300,000	0.0085	10,000.	0.0099	12,000.	0.0002	200.	0	0	0	0	0		0	0	0	0	0
Diesel Produced	درا احم	73656	5.0 19 5	1 400 000	0.0006	42	0.0008	57	0	0	0	0	3.51	200,000	0.0203	470	0.051	960	0.0017	25	45-07	0 0 0 2 7	0	0	0001		0 0025	25-06	0 11	25-14	0 000000022
Gasoline Broduced	gal	11610.2	10.5	240,000	0.0006	43.		37.	0	0	0	0	2.7	51,000	0.0004	470.	0.013	220	0.0005	23.	46-07	0.027	0	00	0001	1.0 0E-08	0.0033	2E-06	0.11	25-14	0.0000000022
Natural Gas Produced	gai	0	5.2	240,000.		0.9	8F_05	9.2	0	0	0	0	$\frac{1}{2}$		0.008		0.019	220.	7E-05	0.	42-07	0.0049	0		6F-06	0 2E-08	0.00033	9F-07	0.020	5E-14	0.0000000000000000000000000000000000000
Groundwater Extracted On-site	gal x 1000	0	0	0	0.0003	0		0	0	0	0	0) 2.2		0.0037	0	0.0040	0	12-05	0	0	0	0	0	00-00	0 0	0		0	0	0
Potable Water Produced	gal x 1000	6851	92	63 000	0 0004	3	0 021	140	0	0	0			34 000	0.0097	66	0.0059	40	0.016	110	8F-07	0.0057	0	0	2E-05	0 1 85-09	0 000056	7F-08	0 00046	1F-13	
Potable Water Transported	gal x 1000	0	7.4	03,000	0.0004		0.021	140:	0	0	0	0	0 5 1 6 8	34,000	0.0005	0	0.0043		6F-05	0	6E-07	0.0057	0	0	0	0.1 3E-06	0.000030	4E-08	0.00040	3F-14	0.0000000000000000000000000000000000000
Potable Water Used	gal x 1000	0	7.4	0		0	0.0047	0 0	0	0	0	0) 0.5108		0.0005	0	0.0045	0	02 05	0	02.07	0	0	0	0	0 0	0	12 00	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0) 0	0		0	0	0	0	0) (0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Materials Subtotal	0	-	5	8,500,000.		110.	5	1,400.	Ĵ	0		0	5	3,000.000.	Ű	19,000.		21,000.	Ū	550.	J	3.9		0.015		25.	0.018	Ū	0.2	Ŭ	0.000064
				_,				_,,								,,		,													
Waste and Other Services																															
Off-site waste water treatment	gal x 1000	0	3.7	0	0.0002	0	0.0008	0	0	0	0	0) 3	C	0.0061	0	0.0029	0	8E-05	0	5E-07	0	0	0 0.	0.0001	0 8E-08	0	6E-07	0	1E-12	0
Solid Waste Generation	ton	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	0	0.15	0	0	0	0	0) 25	C	0.14	0	0.075	0	0.4	0	8E-06	0	0	0 0.	0.0014	0 1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Hazardous Waste Disposal	ton	6300	176	1,100,000.	. 0.0085	54.	0.165	1,000.	0	0	0	0	27.5	170,000	0.154	970.	0.0825	520.	0.44	2,800.	9E-06	0.055	0	0 0.	0.0015	9.7 1E-06	0.0067	8E-06	0.053	1E-11	0.00000083
Laboratory Analysis	\$	839100	8.8	7,400,000.	. 0.0005	420.	0.0006	470.	0	0	0	0	1.3	1,100,000	0.0045	3,800.	0.003	2,500.	0.0001	96.	0	0	0	0 0.	.0002	170. 0	0	0	0	0	0
Waste and Other Services Subtotal				8,500,000.		470.		1,500.		0		0		1,300,000.		4,800.		3,000.		2,900.		0.055		0		180.	0.0067		0.053		0.00000083
Other																															
On-site process emissions (HAPs)	lbs	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0 0	0	0 0	0	0	0	0	0	0 0	C	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0
Other Subtotal				0		0		0		0		0		0		0		0		0		0		0		0	0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

		Ĩ					L	evel 3 (Off-Site	e) Total On-Sit	e and Off-Site	Parameters -	Alternative 3					
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	РМ	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals			17,000,000.	580.	3,000.	0	0	4,300,000.	24,000.	24,000.	3,500.	4.	0.015	210.	0.025	0.25	0.000064
Energy																	
Diesel (on-site)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	13	100,000.	0.78	95.	0	0	10,000.	11.	87.	1.1	0.012	0	0.22	0.000034	0.0004	0.0000000011
Energy Subtotal			100,000.	0.78	95.	0	0	10,000.	11.	87.	1.1	0.012	0	0.22	0.000034	0.0004	0.0000000011
Matoriala																	
	lb	0200	200,000	5.2	64	0	0	28,000	45	71	11	0.02	0.015		0.0022	0.0012	0.000064
	di di	9300	200,000.	5.2	64.	0	0	38,000.	45.	/1.	11.	0.02	0.015	4.4	0.0032	0.0012	0.000064
HDPE Steel		15200	67.000	2.2	0	0	0	17.000	21	26	0	2.0	0	0	0.0015	0.028	0
Steel		15500	67,000.	3.2	9.8	0	0	17,000.	21.	20.	8.0	3.8	0	1.	0.0015	0.038	0.00000099
Crowel/cond			210,000	15	720	0	0	28,000	100	170	22	0	0	0.0022	0,0000036	0,000068	0
Graver/sallu	dry top	2021 02	310,000.	15.	/30.	0	0	38,000.	190.	170.	23.	0	0	0.0023	0.0000038	0.00008	0.0000000000085
Concrete	tons	275	340,000.	11.	54.	0	0	130,000.	300.	170.	1.7	0.000011	0	4.0	0.0047	0.001	0.000000007
Bentonite	ton	375	500,000.	0.0027	0.12	0	0	6.7	0.022	130.	0.004	0.000011	0	4.1	0.0038	0.003	0.00000000
Regenerated GAC	lbs	0		0.0027	0.13	0	0	0.7	0.033	0.03	0.004	0	0	0.0000041	0.00000000000	0.000000012	0.0000000000000000000000000000000000000
Bioinjection (Molasses)	lbs	2612100	3 400 000	13	240	0	0	1 000 000	7 800	6.800	160	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	12012100	2,200,000	13:	240.	0	0	1,000,000.	10,000	12,000	200	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	2,200,000.	0	0	0	0	1,300,000.	10,000.	12,000:	200:	0	0	0	0	0	0
Diesel Produced	gal	73656	1 400 000	43	57	0	0	200.000	470	960	25	0.027	0	8.8	0.0035	0.11	0.000000022
Gasoline Produced	gal	11610.2	240,000	6.9	9.2	0	0	51,000	93	220	6	0.027	0	1.9	0.0099	0.11	0.0000000022
Natural Gas Produced		0	0	0.5	0	0	0	0	0	0	0	0.0049	0	0	0.00035	0.020	0.0000000000000000000000000000000000000
Groundwater Extracted On-site	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	6851	63,000	3	140	0	0	34,000	66.	40	110	0.0057	0	0.1	0.000056	0.00046	0.000000069
Potable Water Transported	gal x 1000	0	0	0	0	0	0	0	0	0	0	0.0037	0	0.1	0.0000000	0.00010	0
Potable Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal	0		8,500,000.	110.	1,400.	0	0	3,000,000.	<i>19,000.</i>	21,000.	550.	3.9	0.015	25.	0.018	0.2	0.000064
Waste and Other Services																	
Off-site waste water treatment	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	6300	1,100,000.	54.	1,000.	0	0	170,000.	970.	520.	2,800.	0.055	0	9.7	0.0067	0.053	0.00000083
Laboratory Analysis	\$	839100	7,400,000.	420.	470.	0	0	1,100,000.	3,800.	2,500.	96.	0	0	170.	0	0	0
Waste and Other Services Subtotal			8,500,000.	470.	1,500.	0	0	1,300,000.	4,800.	3,000.	2,900.	0.055	0	180.	0.0067	0.053	0.00000083
				+								├		H	<u> </u>		
					<u> </u>							<u> </u>		├			
Un-site process emissions (HAPs)	Ibs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Un-site process emissions (GHGs)	Ibs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

Traffic and Personnel - Alternative 3

		Level 1 -On-	Level 2 -	Level 3 -	Level 4 -	Level 5 -	Level 6 -	
ltem	Units	Site	Transport.	Off-Site	Not Used	Not Used	Not Used	Total
<u>Traffic</u>								
Number of passenger car trips to the site	trips		0					0
Number of light-duty truck trips to the site	trips		1312					1,312
Number of freight or other heavy duty truck trips to the site	trips		1465					1,465
Total passenger car miles driven	miles		0					0
Total light-duty truck miles driven	miles		114828					114,828
Total freight or other heavey duty truck miles driven	miles		700000					700,000
<u>Personnel</u>								
On-site man days worked	man-days	4036						4,036

Alternative: Alternative Name: Path Name: Main File Name: Reference File Name: Module File Name:

Alternative 4 P&T

Green Remediation Tool Main.xlsx Green Remediation Tool Reference.xlsx alternative 4 v1 inventory modules.xlsx

Variables In Alternative:

Level 1	On-Site
Level 2	Transport.
Level 3	Off-Site
Level 4	Not Used
Level 5	Not Used
Level 6	Not Used

		Usuge mpt						-	
			Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	
		Units	On-Site	Transport.	Off-Site	Not Used	Not Used	Not Used	Total
	Abbreviation								
Energy									
Diesel (on-site)	Diesel-On	gal	4639						4639
Gasoline (on-site use)	Gas-On	gal	445.2						445.2
Natural gas (on-site use)	NG-On	ccf							0
Diesel (off-site use)	Diesel-Off	gal		52571					52571
Gasoline (off-site use)	Gas-Off	gal		24081					24081
Natural gas (off-site use)	NG-Off	ccf							0
On-site electricity use	Elec. Use	MWh	7600						7600
Electricity transmission*	Elec. Trans	MWh		7600					7600
Electricity production*	Elec. Prod	MWh			7600				7600
Materials									
PVC	Ρ\/C	lh	<u> </u>		3300				3300
		lh	<u> </u>	<u> </u>	2000				2000
Steel	Steel	lb			56900				56900
Steel	S Steel	lb lb			2100				2100
Gravel/sand	S. Steel	ton			5627				5627
Coment Grout	Comont	dry top			26				26
Concrete	Concroto	tops			20				20
Rontonito	Bont	ton			549				549
Benconite Regenerated CAC		lbc			0				0
Regenerated GAC	Bio#1	lbs			8300000				00000
Disinisation (Chasses)	BIO#1	IDS			0				0
Bioinjection (Cheese Whey)	BIO#2	IDS			0				0
Bioinjection (vegetable OII)	BIO#3	201			0				0
Diesel Produced	Diesei-Pro	gai			57210				57210
Gasoline Produced	Gas-Pro	gai			24526.2				24526.2
Natural Gas Produced	NG-Pro		2722422		0				0
Groundwater Extracted On-site	GW EXT	gal x 1000	2/33132		4				2/33132
Potable Water Produced	PW Pro.	gal x 1000			4				4
Potable Water Transported	PW Trans.	gal x 1000		4					4
Potable Water Used	PW Used	gal x 1000	4						4
Other On-Site Water Used	OW	gal x 1000							0
Waste and Other Services									
Off-site waste water treatment	POTW	gal x 1000			2733000				2733000
Solid Waste Generation	SW-Gen	ton	0						0
Solid Waste Disposal	SW-Disp	ton	Ŭ Ŭ		0				0
Hazardous Waste Generation	HW-Gen	ton	6200		Ŭ				6200
Hazardous Waste Disposal	HW-Disn	ton	0200		6200				6200
Laboratory Analysis	lah	\$			1103/00				1103/00
		Ŷ			1105400				1105400
Other									
On-site process emissions (HAPs)	Proc. HAPs	lbs	17800						17800
On-site process emissions (GHGs)	Proc. GHGs	lbs CO2e	192000						192000

Usage Input - Alternative 4

Notes:

* Report on-site electricity usage for these categories. Transmission and electricity production will be automatically calculated.

					Totals Fo	r Parameters	Used, Extrac	ted, Emitted,	or Generated	l On-Site - Ali	ternative 4				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	27,000,000.	7,600.	0	0	0	110,000.	840.	27.	16.	0	0	1.5	0	0	0
Materials	0	0	2,700,000.	4.	2,700,000.	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	6,200.	0	0	0	0
Other	0	0	0	0	0	190,000.	0	0	0	0	0	18,000.	0	0	0
On-Site Total	27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0
Level 2 - Transport.															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 3 - Off-Site							├ ───┤								
Errergy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Total	0	0	0		0	0	0	0	0	0	0	0			0
									Ŭ					Ŭ	
Level 4 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			ļ							ļ					
										ļ				I	l
Total	27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0

					Totals For	Parameters	Used, Extract	ed, Emitted,	or Generated	Off-Site - Alt	ernative 4				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-Site Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 2 - Transport.	12 000 000	010	0			1 700 000	12,000	200	100			22		0	
Energy	13,000,000.	910.	0	0	0	1,700,000.	12,000.	390.	190.	0	0	23.	0	0	0
Wasta (Samisas	30.	0.0026	0.019	0	0	2.1	0.0022	0.017	0.00022	0.000023	0	0	0.000011	0.0000016	0.0000000000012
waste/services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Transact Total	12 000 000	0	0	0	0	0	12 000	0	0	0	0	0	0	0	0
Transport. Total	13,000,000.	910.	0.019		0	1,700,000.	12,000.	390.	190.	0.0000023		23.	0.000011	0.0000016	0.00000000000012
Level 3 - Off-Site											<u> </u>				
Energy	59,000,000.	460.	55,000.	0	0	6,100,000.	6,400.	51,000.	660.	6.8	0	130.	0.02	0.24	0.00000065
Materials	83,000,000.	3,800.	55,000.	0	0	18,000,000.	210,000.	130,000.	100.	15.	0.0073	22.	0.017	0.29	0.000025
Waste/Services	21.000.000.	1.100.	3.900.	0	0	9.800.000.	23.000.	12.000.	3.100.	1.4	0	570.	0.23	1.8	0.0000028
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Total	160,000,000.	5,400.	110,000.	0	0	34,000,000.	240,000.	190,000.	3,900.	23.	0.0073	720.	0.27	2.3	0.000028
Level 4 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 5 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used								ļ							
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		├ ────┤									⊢−−−−				l
	170 000 000							100.005							
Total	170,000,000.	6,300.	110,000.	0	0	36,000,000.	250,000.	190,000.	4,100.	23.	0.0073	740.	0.27	2.3	0.000028

						Totals fo	r On-Site and	Off-Site Para	ameters - Alte	ernative 4					
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	27,000,000.	7,600.	0	0	0	110,000.	840.	27.	16.	0	0	1.5	0	0	0
Materials	0	0	2,700,000.	4.	2,700,000.	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	6,200.	0	0	0	0
Other	0	0	0	0	0	190,000.	0	0	0	0	0	18,000.	0	0	0
On-Site Total	27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0
Level 2 - Transport.															
Energy	13,000,000.	910.	0	0	0	1,700,000.	12,000.	390.	190.	0	0	23.	0	0	0
Materials	30.	0.0026	0.019	0	0	2.1	0.0022	0.017	0.00022	0.000023	0	0	0.000011	0.00000016	0.0000000000012
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transport. Total	13,000,000.	910.	0.019	0	0	1,700,000.	12,000.	390.	190.	0.0000023	0	23.	0.000011	0.00000016	0.0000000000012
Level 3 - Off-Site															
Energy	59,000,000.	460.	55 <i>,</i> 000.	0	0	6,100,000.	6,400.	51,000.	660.	6.8	0	130.	0.02	0.24	0.00000065
Materials	83,000,000.	3,800.	55 <i>,</i> 000.	0	0	18,000,000.	210,000.	130,000.	100.	15.	0.0073	22.	0.017	0.29	0.000025
Waste/Services	21,000,000.	1,100.	3,900.	0	0	9,800,000.	23,000.	12,000.	3,100.	1.4	0	570.	0.23	1.8	0.000028
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Off-Site Total	160,000,000.	5,400.	110,000.	0	0	34,000,000.	240,000.	190,000.	3,900.	23.	0.0073	720.	0.27	2.3	0.000028
															└───── │
Level 4 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Osea Total	<u> </u>		0		0			0	0			0		<i>U</i>	
Lovel 5 - Not Used											⊢——–I				├─── ┤
Eever 5 - Not Osed Energy	0	0	0	0	0	0		0	0	0		0		0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0		0	0	0		0	0	0	
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Level 6 - Not Used															
Energy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste/Services	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Used Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	200,000,000.	14,000.	2,800,000.	4.	2,700,000.	36,000,000.	250,000.	190,000.	4,100.	23.	6,200.	19,000.	0.27	2.3	0.000028

					Percentages	For Paramet	ers Used, Exti	racted, Emitte	ed, or Genera	ted On-Site -	Alternative 4				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	100%	100%	0%	0%	0%	37%	100%	100%	100%	0%	0%	<1%	0%	0%	0%
Materials	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	63%	0%	0%	0%	0%	0%	100%	0%	0%	0%
On-Site Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	100%	100%	0%	0%	0%
Level 2 - Transport.															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 3 - Off-Site															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 5 - Not Used														┝────┤	
Ever 5 - Not Osed	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

					Percentages I	or Paramete	ers Used, Extr	acted, Emitte	d, or Genera	ted Off-Site -	Alternative 4				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 2 - Transport.	00/	1.40/				50/	50/		50/			20/			
Energy	8%	14%	0%	0%	0%	5%	5%	<1%	5%	0%	0%	3%	0%	0%	0%
Wateriais	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%
waste/services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport Total	0%	1.49/	0%	0%	0%	0%	0%		0%	-10/	0%	0% 2%	-19/	-1%	-19/
	870	14/0	<1/6	078	070	570	370	<1/6	570	1/0	078	3/0		<1/6	~1 /0
Level 3 - Off-Site															
Ecvers of site	34%	7%	50%	0%	0%	17%	3%	27%	16%	30%	0%	17%	7%	10%	<1%
Materials	48%	60%	50%	0%	0%	50%	83%	68%	2%	65%	100%	3%	6%	13%	89%
Waste/Services	12%	17%	4%	0%	0%	27%	9%	6%	76%	6%	0%	77%	85%	78%	10%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	94%	85%	104%	0%	0%	95%	95%	101%	94%	101%	100%	97%	99%	101%	99%
Level 4 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 5 - Not Used]											
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Loval 6 Nat Used					├ ────┤Ì				┝────┤				┝────┤	I	
Level 0 - Not Used		0.00/	00/	00/		0%	00/	0.04	0%	00/	0%		00/		
Matorials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0% 0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
ojj-site iotal	0%	070	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	070	070	

					Pe	ercentages fo	r Total On-Sit	e and Off-Sit	e Parameters	- Alternative	4				
	Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
	Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Level 1 - On-Site															
Energy	14%	55%	0%	0%	0%	<1%	<1%	<1%	<1%	0%	0%	<1%	0%	0%	0%
Materials	0%	0%	96%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%
	0% 1 <i>/</i> %	0% 55%	0%	0% 100%	100%	<1%	-1%	0%	0%	0%	100%	90%	0%	0%	0%
On-Site rotar	14/0	3378	30%	100%	100%	170	1/0	1/0	<1/6	078	100%	30%	078	078	078
Level 2 - Transport.											<u> </u>				
Energy	7%	7%	0%	0%	0%	5%	5%	<1%	5%	0%	0%	<1%	0%	0%	0%
Materials	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%	<1%	<1%	0%	0%	<1%	<1%	<1%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Transport. Total	7%	7%	<1%	0%	0%	5%	5%	<1%	5%	<1%	0%	<1%	<1%	<1%	<1%
Level 3 - Off-Site															
Energy	30%	3%	2%	0%	0%	17%	3%	27%	16%	30%	0%	<1%	7%	10%	<1%
Materials	42%	27%	2%	0%	0%	50%	83%	68%	2%	65%	<1%	<1%	6%	13%	89%
Waste/Services	11%	8%	<1%	0%	0%	27%	9%	6%	75%	6%	0%	3%	85%	78%	10%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	82%	39%	4%	0%	0%	94%	95%	101%	94%	101%	<1%	3%	99%	101%	99%
Level 4 - Not Lised											<u> </u>				
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
On-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 5 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Un-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Level 6 - Not Used															
Energy	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Materials	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Waste/Services	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Off-Site Total	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

													All Lev	els - Paran	neters	Used, Extr	acted, E	Emitted, o	r Generat	ted On-Si	ite - Alt	ernative 4										
			E	nergy	Ele	ectricity	A	ll Water	Potabl	le Water	Grou	ndwater		CO2e		NO x		SO x	PI	М	Soli	d Waste	Ha	z. Waste	Ai	r Toxics	М	ercury		Lead		Dioxins
		Quantity	Conv.	07	Conv.	,	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000	1	gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
										-																						
Totals				27,000,000.		7,600.		2,700,000.		4.		2,700,000.		300,000.		840.		27.	,	16.		0		6,200.		18,000.		0		0		0
Energy																																
Diesel (on-site)	gal	4639	139	640,000.	0	(0 0	0	0	0	0	0	22.5	100,000.	0.17	790.	0.0054	25.	. 0.0034	16.	0	0	0 0	0	0.0003	1.4	1 0	0	0 0	0	0 0	0
Gasoline (on-site use)	gal	445.2	124	55,000.	0	(0 0	0	0	0	0	0	19.6	8,700.	0.11	49.	0.0045	2.	. 0.0005	0.24	0	0	0	0	0.0003	0.13	3 0	0	0	C	0	0
Natural gas (on-site use)	ccf	0	103	0	0	(0 0	0	0	0	0	0	12	0	0.0001	C	6E-06	0	0 8E-06	0	0	0	0 0	0	0.29	C	0 0	0	0 0	0	0 0	0
Diesel (off-site use)	gal	52571	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0 0	0	0	0
Gasoline (off-site use)	gal	24081	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0 0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0	0
On-site electricity use	MWh	7600	3413	26,000,000.	1	7,600). C	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0	0
Electricity transmission*	MWh	7600	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0	0
Electricity production*	MWh	7600	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0 0	0	0	0
Energy Subtotal				27,000,000.		7,600.	•	0		0		0		110,000.		840.		27.	,	16.		0		0		1.5		0		0		0
Materials		2222																														
	dl	3300	0	0	0	(0	0	0	0	0	0	0	0		0 0	0		0	0	0	0 0	0	0			0	0 0	0	0 0	0
HDPE	lb lb	2000	0	0	0	(0	0	0	0	0	0	0	0			0		0	0	0	0 0	0	0			0	0 0	0	0 0	0
Steel Steinlass Steel	lb lb	56900	0	0	0	(0	0	0	0	0	0	0	0		0 0	0		0	0	0	0 0	0	0			0	0 0	0	0 0	0
Stainless Steel		2100	0	0	0			0	0	0	0	0	0	0	0			0		0	0	0		0	0	(0		0		0
Gravel/sand	ton	5637	0	0	0			0	0	0	0	0	0	0	0			0		0	0	0		0	0			0		0		0
Cenerate	dry-ton	20	0	0	0			0	0	0	0	0	0	0	0	C		0		0	0	0		0	0	C		0		0		0
Rentonito	ton	349 0	0	0	0			0	0	0	0	0	0	0	0					0	0	0		0	0			0				0
Begenerated GAC	lbs	8360000	0	0	0			0	0	0	0	0	0	0	0					0	0	0		0	0			0				0
Righter (Molasses)	lbs	0	0	0	0			0	0	0	0	0	0	0	0	C		0		0	0	0		0	0	C		0		0		0
Bioinjection (Wolasses)	lbs	0	0	0	0			0	0	0	0	0	0	0	0			0		0	0	0		0	0			0		0		0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	(0	0	0	0	0	0	0	0			0		0	0	0		0	0			0		0		0
Diesel Produced	gal	57210	0	0	0	(0	0	0	0	0	0	0	0			0		0	0	0		0	0) 0	0		0		0
Gasoline Produced	gal	24526.2	0	0	0	(0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0 0	0
Natural Gas Produced	ccf	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0 0	0
Groundwater Extracted On-site	gal x 1000	2733132	0	0	0	(0 1	2,700,000.	0	0	1	2,700,000.	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0 0	0	0 0	0
Potable Water Produced	gal x 1000	4	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0 0	0
Potable Water Transported	gal x 1000	4	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0 0	0	0 0	0
Potable Water Used	gal x 1000	4	0	0	0	(0 1	4.	1	4.	0	0	0	0	0	С	0 0	0	0 0	0	0	0	0 0	0	0	С	0 0	0	0 0	0	0 0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	(0 1	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0	0	0	0
Materials Subtotal				0		0)	2,700,000.		4.		2,700,000.		0		0		0		0		0		0		0		0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	2733000	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	1	0	0	0	0	C	0 0	0	0	C	0	0
Solid Waste Disposal	ton	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0	0
Hazardous Waste Generation	ton	6200	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	1	6,200.	0	C	0 0	0	0	0	0	0
Hazardous Waste Disposal	ton	6200	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	0	C	0 0	0	0	0	0	0
Laboratory Analysis	\$	1103400	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0 0	0	0	C	0 0	0	0 0	0	0	0
Waste and Other Services Subtotal				0		0)	0		0		0		0		0		0)	0		0		6,200.		0		0		0		0
								↓																								
Other		40000						ļ																								
On-site process emissions (HAPs)	lbs	17800	0	0	0	(0 0	0	0	0	0	0	0	0	0	C	0 0	0	0 0	0	0	0	0	0	1	18,000	. 0	0	0	0	0	0
Un-site process emissions (GHGs)	Ibs CO2e	192000	0	0	0	(0 0	0	0	0	0	0	1	190,000.	0	C	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0	0	0	0
Other Subtotal				0		0	/	0		0		0		190,000.		0		0		0		0		0		18,000.		0		0		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

													All Lev	vels - Parar	neters	Used, Extr	acted, E	Emitted, or	Genera	ated Off-Sit	te - Alt	ernative 4	,									-
			E	inergy	El	ectricity	A	ll Water	Potab	le Water	Gro	undwater		CO2e		NO x		SO x		PM	Soli	d Waste	На	z. Waste	Ai	Toxics	Me	ercury	Lead		Di	oxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	C	onv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted I	Factor	Released Fa	ctor Rele	ased	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		os		lbs
																														_		
Totals				180,000,000.		6,300.	•	110,000.		0		0		36,000,000.		250,000.		190,000.		4,100.		23.		0.0073		740.		0.27		2.3		0.000028
F																														_		
Energy Diasol (on site)	gal	4620	0	0			0 0	0	0	0		0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (on-site)	gal	4039	0	0				0	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on site use)	gai	445.2	0	0				0	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	52571	130	7 300 000				0	0	0		0	22.5	1 200 000	0 17	000 8	0.0054	280	0 0034	180	0	0	0	0	0 0003	16	0	0	0	0	0	0
Gasoline (off-site use)	gal	2/081	139	3 000 000	. 0			0	0	0		0	19.6	470,000	0.17	2 600	0.0034	110	0.0034	13	0	0	0	0	0.0003	7.2	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	103	0				0	0	0		0	12.0	470,000	0.001	2,000	6F-06	0	8F-06		0	0	0	0	0.0005	,.2	0	0	0	0	0	0
On-site electricity use	MWh	7600	0	0		(0	0	0		0	0	0	0.0001		02 00	0	0 10	0	0	0	0	0	0.25	0	0	0	0	0	0	0
Electricity transmission*	MWh	7600	410	3.100.000.	0.12	910	0 0 0	0	0	0		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	7600	7800	59.000.000.	0.06	460). 7.3	55.000.	0	0	0	0	800	6.100.000.	0.84	6.400	6.7	51.000.	0.087	660.	0.0009	6.8	0	0	0.017	130.	3E-06	0.02 3	3E-05	0.24	9E-12 (0.000000065
Energy Subtota	1			72,000,000.		1,400.		55,000.		0		0		7,800,000.		18,000.		51,000.		850.		6.8		0		150.		0.02		0.24		0.000000065
						,		· · ·								,																
Materials																																
PVC	lb	3300	22	73,000.	. 0.0006	1.8	8 0.0069	23.	0	0	0 0	0	4.1	14,000.	0.0048	16	0.0076	25.	0.0012	4.	2E-06	0.0073	2E-06	0.0053	0.0005	1.6	3E-07	0.0011 1	LE-07 0	.00043	7E-09	0.000023
HDPE	lb	2000	31	62,000.	. 0.0003	0.5	5 0.0023	4.6	0	0	0	0	1.9	3,800.	0.0032	6.4	0.0041	8.2	0.0006	1.3	4E-07	0.00086	1E-06	0.002	3E-06	0.0068	3E-09	0.0000052 2	2E-09 0.00	00048	1E-09	0.000002
Steel	lb	56900	4.4	250,000.	. 0.0002	12	2. 0.0006	36.	0	0	0 0	0	1.1	63,000.	0.0014	80.	0.0017	97.	0.0006	32.	0.0003	14.	0	0	7E-05	3.8	1E-07	0.0057 3	3E-06	0.14	7E-12	0.0000037
Stainless Steel	lb	2100	11.6	24,000.	. 0.0006	1.2	2 0.0023	4.8	0	0	0 0	0	3.4	7,100.	0.0075	16	0.012	25.	0.0044	9.2	0.0006	1.3	0	0	0.0001	0.3	0	0 5	5E-07	0.0011	2E-12 C).0000000046
Gravel/sand	ton	5637	55	310,000.	. 0.0027	15	5. 0.13	730.	0	0	0	0	6.7	38,000.	0.033	190	0.03	170.	0.004	23.	0	0	0	0	4E-07	0.0023	6E-11	0.0000036 1	LE-09 0.00	00068	2E-16 0	.0000000000085
Cement Grout	dry-ton	26	4100	110,000.	. 0.13	3.4	4 0.41	11.	0	0	0 0	0	1800	47,000.	3.6	94.	2.1	55.	0.0063	0.16	0	0	0	0	0.058	1.5	6E-05	0.0015 0.	0001	0.0034	9E-11 0).0000000022
Concrete	tons	349	793	280,000.	. 0.026	9.1	1 0.19	66.	0	0	0	0	335	120,000.	0.68	240.	0.41	140.	0.0044	1.5	3E-08	0.0000098	0	0	0.011	3.8	1E-05	0.0035 2	2E-05	0.0084	2E-11 0).0000000056
Bentonite	ton	0	55	0	0.0027	C	0 0.13	0	0	0	0	0	6.7	0	0.033	C	0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0 1	LE-09	0	2E-16	0
Regenerated GAC	lbs	8360000	9.6	80,000,000.	. 0.0004	3,700	0.0064	54,000.	0	0	0	0	2	17,000,000.	0.025	210,000	0.015	130,000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	1.31	0	5E-06	C	0 9E-05	0	0	0	0	0	0.4	0	0.003	C	0.0026	0	6E-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	0	0 0	(0 0	0	0	0	0 0	0	1.1	0	0.0083	C	0.0099	0	0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	0	0 6E-05	0	0 2E-05	0	0	0	0	0	3.51	0	0.0265	C	0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	57210	18.5	1,100,000.	. 0.0006	34	. 0.0008	44.	0	0	0	0	2.7	150,000.	0.0064	370.	0.013	740.	0.0003	19.	4E-07	0.021	0	0	0.0001	6.9	5E-08	0.0027 2	2E-06	0.086	3E-14 C).0000000017
Gasoline Produced	gal	24526.2	21	520,000.	. 0.0006	14	4. 0.0008	19.	0	0	0	0	4.4	110,000.	0.008	200.	0.019	470.	0.0005	13.	4E-07	0.01	0	0	0.0002	3.9	9E-08	0.0021 2	2E-06	0.054	3E-14 C).0000000076
Natural Gas Produced	cct	0	5.2	0	0.0003	(0 8E-05	0	0	0	0 0	0	2.2	0	0.0037	0	0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0 9	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	2/33132	0	0	0 0	0.0010	0 0	0	0	0	0 0	0	0	0	0	0.020	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	4	9.2	37.	. 0.0004	0.0018	8 0.021	0.084	0	0		0	5	20.	0.0097	0.039	0.0059	0.024	0.016	0.064	8E-07	0.0000033	0	0	2E-05	0.00006	8E-09 0	0.00000033 /	/E-08 0.000	00027	1E-13 0	.00000000000004
Potable Water Hansported	gal x 1000	4	7.4	30.	0.0006	0.0026	0 0.0047	0.019	0	0		0	0.5168	2.1	0.0005	0.0022	0.0043	0.017	02-05	0.00022	0E-07	0.0000023	0	0	0	0	32-06	0.00011 4	0.000	00010	SE-14 0	.000000000012
Other On-Site Water Used	gal v 1000	4	0	0				0	0	0		0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtota		0	0	83.000 000	, 0	3 800		55,000	0	0	, 0	0	0	18,000 000	0	210 000	0	130.000	0	100	0	15	0	0.0073	0	22	0	0.017	0	0.29	0	0.00025
	-			30,000,000,		3,000.	-	33,000.						10,000,000.		210,000.		100,000,		100.		± <i>J</i> ,		0.0075		~~~		0.017		5.2.5		0.000025
Waste and Other Services	1																															
Off-site waste water treatment	gal x 1000	2733000	3.7	10,000.000.	. 0.0002	490	0.0008	2.300.	0	0	0	0	3	8,200.000.	0.0061	17.000	0.0029	7,900.	8E-05	220.	5E-07	1.3	0	0	0.0001	330.	8E-08	0.22 6	5E-07	1.7	1E-12	0.0000027
Solid Waste Generation	ton	0	0	0) 0	(0 0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	0	0 0.15	0	0	0	0	0	25	0	0.14	C	0.075	0	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0 8	3E-06	0	1E-11	0
Hazardous Waste Generation	ton	6200	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	6200	176	1,100,000.	. 0.0085	53	0.165	1,000.	0	0	0	0	27.5	170,000.	0.154	950.	0.0825	510.	0.44	2,700.	9E-06	0.055	0	0	0.0015	9.5	1E-06	0.0066 8	3E-06	0.052	1E-11 (0.00000082
Laboratory Analysis	\$	1103400	8.8	9,700,000.	. 0.0005	550	0.0006	620.	0	0	0	0	1.3	1,400,000.	0.0045	5,000	0.003	3,300.	0.0001	130.	0	0	0	0	0.0002	230.	0	0	0	0	0	0
Waste and Other Services Subtota	1			21,000,000.		1,100.		3,900.		0		0		9,800,000.		23,000.		12,000.		3,100.		1.4		0		570.		0.23		1.8		0.0000028
Other																																
On-site process emissions (HAPs)	lbs	17800	0	0	0 0	0	0 0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	192000	0	0	0 0	C	0 0	0	0	0	0	0	0	0	0	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtota	1			0		0	2	0		0		0		0		0		0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA
| | | | | | | | | All Levels - T | otal On-Site a | nd Off-Site Pa | arameters - Alt | ernative 4 | | | | | |
|-----------------------------------|------------|----------|--------------|-------------|------------|---------------|-------------|----------------|----------------|----------------|-----------------|-------------|------------|------------|------------|-----------|-----------------|
| | | | Energy | Electricity | All Water | Potable Water | Groundwater | CO2e | NO x | SO x | PM | Solid Waste | Haz. Waste | Air Toxics | Mercury | Lead | Dioxins |
| | | Quantity | | | | | | | | | | | | | | | |
| | | Used | Used | Used | Used | Used | Extracted | Emitted | Emitted | Emitted | Emitted | Generated | Generated | Emitted | Released | Released | Released |
| | | | Mbtu | MWh | gal x 1000 | gal x 1000 | gal x 1000 | lbs | lbs | lbs | lbs | tons | tons | lbs | lbs | lbs | lbs |
| Totals | | | 200,000,000 | 14 000 | 2 900 000 | 1 | 2 700 000 | 36,000,000 | 250,000 | 190,000 | 4 100 | 22 | 6 200 | 19.000 | 0.27 | 2.2 | 0 000028 |
| | | | 200,000,000. | 14,000. | 2,300,000. | 4. | 2,700,000. | 30,000,000. | 230,000. | 190,000. | 4,100. | 23. | 0,200. | 19,000. | 0.27 | 2.5 | 0.000028 |
| Eneray | | | | | | | | | | | | | | | | | |
| Diesel (on-site) | gal | 4639 | 640,000, | 0 | 0 | 0 | 0 | 100.000. | 790. | 25. | 16. | 0 | 0 | 1.4 | 0 | 0 | 0 |
| Gasoline (on-site use) | gal | 445.2 | 55.000. | 0 | 0 | 0 | 0 | 8,700. | 49. | 2. | 0.24 | 0 | 0 | 0.13 | 0 | 0 | 0 |
| Natural gas (on-site use) | ccf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diesel (off-site use) | gal | 52571 | 7.300.000. | 0 | 0 | 0 | 0 | 1.200.000. | 8,900. | 280. | 180. | 0 | 0 | 16. | 0 | 0 | 0 |
| Gasoline (off-site use) | gal | 24081 | 3,000,000. | 0 | 0 | 0 | 0 | 470,000. | 2,600. | 110. | 13. | 0 | 0 | 7.2 | 0 | 0 | 0 |
| Natural gas (off-site use) | ccf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| On-site electricity use | MWh | 7600 | 26,000,000. | 7,600. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity transmission* | MWh | 7600 | 3,100,000. | 910. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Electricity production* | MWh | 7600 | 59,000,000. | 460. | 55,000. | 0 | 0 | 6,100,000. | 6,400. | 51,000. | 660. | 6.8 | 0 | 130. | 0.02 | 0.24 | 0.00000065 |
| Energy Subtotal | | | 99,000,000. | 9,000. | 55,000. | 0 | 0 | 7,900,000. | 19,000. | 51,000. | 870. | 6.8 | 0 | 150. | 0.02 | 0.24 | 0.00000065 |
| | | | <u> </u> | · · · | · · · | | | | | | | | | | | | |
| Materials | | | | | | | | | | | | | | | | | |
| PVC | lb | 3300 | 73,000. | 1.8 | 23. | 0 | 0 | 14,000. | 16. | 25. | 4. | 0.0073 | 0.0053 | 1.6 | 0.0011 | 0.00043 | 0.000023 |
| HDPE | lb | 2000 | 62,000. | 0.5 | 4.6 | 0 | 0 | 3,800. | 6.4 | 8.2 | 1.3 | 0.00086 | 0.002 | 0.0068 | 0.0000052 | 0.000048 | 0.000002 |
| Steel | lb | 56900 | 250,000. | 12. | 36. | 0 | 0 | 63,000. | 80. | 97. | 32. | 14. | 0 | 3.8 | 0.0057 | 0.14 | 0.0000037 |
| Stainless Steel | lb | 2100 | 24,000. | 1.2 | 4.8 | 0 | 0 | 7,100. | 16. | 25. | 9.2 | 1.3 | 0 | 0.3 | 0 | 0.0011 | 0.000000046 |
| Gravel/sand | ton | 5637 | 310,000. | 15. | 730. | 0 | 0 | 38,000. | 190. | 170. | 23. | 0 | 0 | 0.0023 | 0.0000036 | 0.000068 | 0.0000000000085 |
| Cement Grout | dry-ton | 26 | 110,000. | 3.4 | 11. | 0 | 0 | 47,000. | 94. | 55. | 0.16 | 0 | 0 | 1.5 | 0.0015 | 0.0034 | 0.000000022 |
| Concrete | tons | 349 | 280,000. | 9.1 | 66. | 0 | 0 | 120,000. | 240. | 140. | 1.5 | 0.0000098 | 0 | 3.8 | 0.0035 | 0.0084 | 0.000000056 |
| Bentonite | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Regenerated GAC | lbs | 8360000 | 80,000,000. | 3,700. | 54,000. | 0 | 0 | 17,000,000. | 210,000. | 130,000. | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bioinjection (Molasses) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bioinjection (Cheese Whey) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bioinjection (Vegetable Oil) | lbs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diesel Produced | gal | 57210 | 1,100,000. | 34. | 44. | 0 | 0 | 150,000. | 370. | 740. | 19. | 0.021 | 0 | 6.9 | 0.0027 | 0.086 | 0.000000017 |
| Gasoline Produced | gal | 24526.2 | 520,000. | 14. | 19. | 0 | 0 | 110,000. | 200. | 470. | 13. | 0.01 | 0 | 3.9 | 0.0021 | 0.054 | 0.0000000076 |
| Natural Gas Produced | ccf | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Groundwater Extracted On-site | gal x 1000 | 2733132 | 0 | 0 | 2,700,000. | 0 | 2,700,000. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Potable Water Produced | gal x 1000 | 4 | 37. | 0.0018 | 0.084 | 0 | 0 | 20. | 0.039 | 0.024 | 0.064 | 0.0000033 | 0 | 0.00006 | 0.00000033 | 0.0000027 | 0.000000000004 |
| Potable Water Transported | gal x 1000 | 4 | 30. | 0.0026 | 0.019 | 0 | 0 | 2.1 | 0.0022 | 0.017 | 0.00022 | 0.0000023 | 0 | 0 | 0.000011 | 0.0000016 | 0.0000000000012 |
| Potable Water Used | gal x 1000 | 4 | 0 | 0 | 4. | 4. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other On-Site Water Used | gal x 1000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Materials Subtotal | | | 83,000,000. | 3,800. | 2,800,000. | 4. | 2,700,000. | 18,000,000. | 210,000. | 130,000. | 100. | 15. | 0.0073 | 22. | 0.017 | 0.29 | 0.000025 |
| | | | | | | | | | | | | | | | | | |
| Waste and Other Services | | | | <u> </u> | L | L | | L | | | | L | L | | | | |
| Off-site waste water treatment | gal x 1000 | 2733000 | 10,000,000. | 490. | 2,300. | 0 | 0 | 8,200,000. | 17,000. | 7,900. | 220. | 1.3 | 0 | 330. | 0.22 | 1.7 | 0.0000027 |
| Solid Waste Generation | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Solid Waste Disposal | ton | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hazardous Waste Generation | ton | 6200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,200. | 0 | 0 | 0 | 0 |
| Hazardous Waste Disposal | ton | 6200 | 1,100,000. | 53. | 1,000. | 0 | 0 | 170,000. | 950. | 510. | 2,700. | 0.055 | 0 | 9.5 | 0.0066 | 0.052 | 0.00000082 |
| Laboratory Analysis | \$ | 1103400 | 9,700,000. | 550. | 620. | 0 | 0 | 1,400,000. | 5,000. | 3,300. | 130. | 0 | 0 | 230. | 0 | 0 | 0 |
| Waste and Other Services Subtotal | | | 21,000,000. | 1,100. | 3,900. | 0 | 0 | 9,800,000. | 23,000. | 12,000. | 3,100. | 1.4 | 6,200. | 570. | 0.23 | 1.8 | 0.000028 |
| | | | + + | + + | + + | | | | ├ | ├ | + + | | | | + + | + + | |
| Other | п | 47000 | ├ | | | | <u> </u> | | | | | <u> </u> | | | | | |
| On-site process emissions (HAPs) | | 1/800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18,000. | 0 | 0 | 0 |
| Un-site process emissions (GHGs) | ibs CO2e | 192000 | 0 | 0 | 0 | 0 | 0 | 190,000. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Subtotal | | | 0 | 0 | 0 | 0 | 0 | 190,000. | 0 | 0 | 0 | 0 | 0 | 18,000. | 0 | 0 | 0 |

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Le	vel 1 (C	Dn-Site) Pa	ramete	rs Used, E	xtracte	d, Emitted	, or Gen	erated Or	n-Site -	Alternativ	e 4									
			F	nergy	Fle	ectricity	Δ	ll Water	Pota	ble Water	Grou	ndwater		CO2e				SO x		PM	Soli	d Waste	На	z. Waste	Ai	r Toxics	N	lercurv		Lead		Dioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	<u></u>	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				27,000,000.		7,600.		2,700,000.		4.		2,700,000.		300,000.		840.		27.		16.		0		6,200.		18,000).	0		0		0
																																l
Energy																																
Diesel (on-site)	gal	4639	139	640,000.	0	C	0 0	0 0	0	0	0	0	22.5	100,000.	0.17	790	0.0054	25.	0.0034	16.	0	0	0	0	0.0003	1	.4 0	0	0 0	0	0	0
Gasoline (on-site use)	gal	445.2	124	55,000.	0	C	0 0	0	0	0	0	0	19.6	8,700.	0.11	49	0.0045	2.	0.0005	0.24	0	0	0	0	0.0003	0.1	13 0	0	0 0	0	0	0
Natural gas (on-site use)	cct	0	103	0	0	0	0 0	0	0	0	0	0	12	0	0.0001	(6E-06	0	8E-06	0	0	0	0	0	0.29		0 0	0	0 0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0		0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0		0	0	0
Gasoline (off-site use)	gai	0	0	0	0			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0		0 0	0		0	0	0
Natural gas (OII-site use)		7600	2412	26,000,000	0	7 600		0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0			0		0	0	
Electricity transmission*		7600	5415	28,000,000.	1	7,000	. 0	0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0			0		0	0	
Electricity production*		0	0	0	0			0	0	0		0	0	0	0	(0	0	0	0	0	0	0	0			0		0	0	
Electricity production		0	0	27 000 000	0	7 600			0	0	0	0	0	110 000	0	840	, 0	27	0	16	0	0	0	0	0	1	5	0) 0	0	0	
				27,000,000.		7,000.		0				0		110,000.		040.		27.		10.		0		0		1.	5			0		<u>_</u>
Materials																																
PVC	lb	0	0	0	0	($\frac{1}{2}$	0	0	0	0	0	0	0	0	() 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
HDPE	lb	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Steel	lb	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
Stainless Steel	lb	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
Gravel/sand	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
Cement Grout	dry-ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
Concrete	tons	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
Bentonite	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0) 0	0	0	0
Regenerated GAC	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Diesel Produced	gal	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Gasoline Produced	gal	0	0	0	0	0		0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Natural Gas Produced		0	0	0	0			0 2 700 000	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0		0 0	0		0	0	0
Groundwater Extracted On-site	gal x 1000	2/33132	0	0	0			2,700,000.	0	0	1	2,700,000.	0	0	0			0	0	0	0	0	0	0	0			0		0	0	0
Potable Water Transported	gal x 1000	0	0	0	0			0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0			0		0	0	0
Potable Water Lised	gal x 1000	0	0	0	0		$\frac{1}{1}$	0	1	0	0	0	0	0	0	(0	0	0	0	0	0	0	0			0		0	0	
Other On-Site Water Used	gal x 1000		0	0	0	r c) 1		0	4. 0	0	0	0	0	0	(0	0	0	0	0	0	0	0		0 0	0		0	0	0
Materials Subtotal	941 X 1000		0	0	0	0		2,700.000	0	<u>م</u>	0	2,700.000	0	<u> </u>	0	0		0	0	<u> </u>	0	<u> </u>	0	<u> </u>	0		0	0		0	0	0
								_,: 00,000.		-7,		_,								v							-					<u>_</u>
Waste and Other Services																																í ———
Off-site waste water treatment	gal x 1000	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Solid Waste Generation	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	1	0	0	0	0		0 0	0) 0	0	0	0
Solid Waste Disposal	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Hazardous Waste Generation	ton	6200	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	1	6,200.	0		0 0	0	0 0	0	0	0
Hazardous Waste Disposal	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Laboratory Analysis	\$	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0		0 0	0	0 0	0	0	0
Waste and Other Services Subtotal				0		0		0		0		0		0		0		0		0		0		6,200.			0	0		0		0
Other								├																								
On-site process emissions (HAPs)	lhs	17800	0	0	0	с			0	0	0	0	0	0	0			0	0	0	0	0	0	0	1	18 00	0 0			<u>^</u>	0	0
On-site process emissions (GHGs)	lbs CO2e	192000	0	0	0	с С		0	0	0	0	0	1	190.000	0	(0	0	0	0	0	0	0	0	10,00	0 0	0		0	0	0
Other Subtotal			0	<u> </u>	5	0		0	0	0	Ū	0	-	<u>190,000</u> .	5	0	J	0	Ū	0	5	0	J	0	5	18.00).	0	5	0		0
				-		, , , , , , , , , , , , , , , , , , ,		3				•		,		•		•		,		•						Ţ				

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Le	vel 1 (C	On-Site) Pa	ramete	ers Used, E	xtracte	d, Emitted,	, or Gen	erated Of	f-Site -	Alternativ	e 4									
			E	nergy	Ele	ectricity	Al	l Water	Potable	e Water	Grou	undwater		CO2e		NO x		SO x		PM	Soli	d Waste	Haz	z. Waste	Air	r Toxics	Me	ercury		Lead	C	Dioxins
		Quantity	Conv.	01	Conv.	,	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000	£	gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0		0		0		0		0		0		0	2	0		0		0		0		0		0		0		0
-	_																															
Energy		4620	0	0	0	0	0		0		0				0					0	0	0	0	0	0		0	0		0	0	
Diesel (on-site)	gai	4639	0	0	0	0	0	0	0	0	0	0	0	0	0	(0	0	0	0	0	0	0	0	0	0	0		0	0	0
Natural gas (on-site use)	gai	445.2 0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0		0	0	0
Diesel (off-site use)	gal	0	139	0	0	0	0	0	0	0	0	0	22.5	0	0 17	(0 0054	0	0 0034	0	0	0	0	0	0 0003	0	0	0		0	0	0
Gasoline (off-site use)	gal	0	124	0	0	0	0	0	0	0	0	0	19.6	0	0.11	(0.0045	0	0.0005	0	0	0	0	0	0.0003	0	0	0		0	0	0
Natural gas (off-site use)	ccf	0	103	0	0	0	0	0	0	0	0	0	12	0	0.0001	(0.0049 0 6F-06	0	8F-06	0	0	0	0	0	0.29	0	0	0		0	0	0
On-site electricity use	MWh	7600	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Electricity transmission*	MWh	0	410	0	0.12	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Electricity production*	MWh	0	7800	0	0.06	0	7.3	0	0	0	0	0	800	0	0.84	(0 6.7	0	0.087	0	0.0009	0	0	0	0.017	0	3E-06	0) 3E-05	0	9E-12	0
Energy Subtoto	11			0		0		0		0		0		0		0)	0		0		0		0		0		0		0		0
Materials																																
PVC	lb	0	22	0	0.0006	0	0.0069	0	0	0	0	0	4.1	0	0.0048	(0.0076	0	0.0012	0	2E-06	0	2E-06	0	0.0005	0	3E-07	0	0 1E-07	0	7E-09	0
HDPE	lb	0	31	0	0.0003	0	0.0023	0	0	0	0	0	1.9	0	0.0032	(0.0041	0	0.0006	0	4E-07	0	1E-06	0	3E-06	0	3E-09	0	2E-09	0	1E-09	0
Steel	lb	0	4.4	0	0.0002	0	0.0006	0	0	0	0	0	1.1	0	0.0014	(0.0017	0	0.0006	0	0.0003	0	0	0	7E-05	0	1E-07	0) 3E-06	0	7E-12	0
Stainless Steel	lb	0	11.6	0	0.0006	0	0.0023	0	0	0	0	0	3.4	0	0.0075	(0.012	0	0.0044	0	0.0006	0	0	0	0.0001	0	0	0) 5E-07	0	2E-12	0
Gravel/sand	ton	0	55	0	0.0027	0	0.13	0	0	0	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	0 1E-09	0	2E-16	0
Cement Grout	dry-ton	0	4100	0	0.13	0	0.41	0	0	0	0	0	1800	0	3.6	(2.1	0	0.0063	0	0	0	0	0	0.058	0	6E-05	0	0.0001	0	9E-11	0
Concrete	tons	0	793	0	0.026	0	0.19	0	0	0	0	0	335	0	0.68	(0 0.41	0	0.0044	0	3E-08	0	0	0	0.011	0	1E-05	0) 2E-05	0	2E-11	0
Bentonite	ton	0	55	0	0.0027	0	0.13	0	0	0	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	0 1E-09	0	2E-16	0
Regenerated GAC		0	9.6	0	0.0004	0	0.0064	0	0	0	0	0	2	0	0.025	(0.015	0		0	0	0	0	0	0	0	0	0		0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.51	0	5E-06	0	96-05	0	0	0	0	0	0.4	0	0.003			0		0	0	0	0	0	0	0	0	0		0	0	0
Bioinjection (Vegetable Oil)	lbs	0	1.87	0	6E-05	0	2E-05	0	0	0	0	0	2.51	0	0.0085		0.0099	0	0.0002	0	0	0	0	0	0	0	0	0		0	0	0
Diesel Produced	gal	0	18 5	0	0.0006	0	0.0008	0	0	0	0	0	2.7	0	0.0203	(0.031	0	0.0017	0	4F-07	0	0	0	0.0001	0	5E-08	0	2E-06	0	3F-14	0
Gasoline Produced	gal	0	21	0	0.0006	0	0.0008	0	0	0	0	0	4.4	0	0.008	(0.019	0	0.0005	0	4E-07	0	0	0	0.0002	0	9E-08	0	2E-06	0	3F-14	0
Natural Gas Produced	ccf	0	5.2	0	0.0003	0	8E-05	0	0	0	0	0	2.2	0	0.0037	(0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0) 9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	2733132	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Potable Water Produced	gal x 1000	0	9.2	0	0.0004	0	0.021	0	0	0	0	0	5	0	0.0097	(0.0059	0	0.016	0	8E-07	0	0	0	2E-05	0	8E-09	0) 7E-08	0	1E-13	0
Potable Water Transported	gal x 1000	0	7.4	0	0.0006	0	0.0047	0	0	0	0	0	0.5168	0	0.0005	(0.0043	0	6E-05	0	6E-07	0	0	0	0	0	3E-06	0	0 4E-08	0	3E-14	0
Potable Water Used	gal x 1000	4	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Materials Subtote	1			0		0		0		0		0		0		0)	0		0		0		0		0		0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	0	3.7	0	0.0002	0	0.0008	0	0	0	0	0	3	0	0.0061	(0.0029	0	8E-05	0	5E-07	0	0	0	0.0001	0	8E-08	0	0 6E-07	0	1E-12	0
Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	0	0.15	0	0	0	0	0	25	0	0.14	(0.075	0	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0) 8E-06	0	1E-11	0
Hazardous Waste Generation	ton	6200	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Hazardous Waste Disposal	ton	0	176	0	0.0085	0	0.165	0	0	0	0	0	27.5	0	0.154	(0.0825	0	0.44	0	9E-06	0	0	0	0.0015	0	1E-06	0	8E-06	0	1E-11	0
Maste and Other Services Subtet	ې با	0	٥.٥	0	0.0005	0	0.0006	0	0	0	0	0	1.3		0.0045		0.003	0	0.0001	0	0	0	0	0	0.0002	0	0	0		0	0	0
	<u>" </u>			0		0		0		0		0		0			/	0		0		0		0		0		0		0		0
Other																																
On-site process emissions (HAPs)	lbs	17800	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	192000	0	0	0	0	0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Other Subtoto	1			0		0		0		0		0		0		0)	0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

								Level 1 (On-Sit	e) Total On-Sit	te and Off-Site	e Parameters -	Alternative 4					
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	РМ	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals	-		27,000,000.	7,600.	2,700,000.	4.	2,700,000.	300,000.	840.	27.	16.	0	6,200.	18,000.	0	0	0
Energy																	
Diesel (on-site)	gal	4639	640,000.	0	0	0	0	100,000.	790.	25.	16.	0	0	1.4	0	0	0
Gasoline (on-site use)	gal	445.2	55,000.	0	0	0	0	8,700.	49.	2.	0.24	0	0	0.13	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	7600	26,000,000.	7,600.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtota	1		27,000,000.	7,600.	0	0	0	110,000.	840.	27.	16.	0	0	1.5	0	0	0
Anto sinto																	_
Materials	11-					0			0								
	dl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	dl Ib	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steel	ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stainless Steel	di	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gravel/sand	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement Grout	dry-ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	tons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benconite Regenerated CAC	lbc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regenerated GAC	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	ros ral	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Casoline Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced	gai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	2733132	0	0	2 700 000	0	2 700 000	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	2,700,000.	0	2,700,000.	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Lised	gal x 1000	<u> </u>	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000		0	0			0	0	0	0	0	0	0	0	0	0	0
Materials Subtota	I	Ť	0	0	2,700,000.	4.	2,700,000.	0	0	0	0	0	0	0	0	0	0
Waste and Other Services																	
Off-site waste water treatment	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6200	0	0	0	0	0	0	0	0	0	0	6,200.	0	0	0	0
Hazardous Waste Disposal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis	Ş	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtota	/		0	0	0	0	0	0	0	0	0	0	6,200.	0	0	0	0
Other	1								1 1	1			<u> </u>		I		
On-site process emissions (HAPs)	lbs	17800	0	0	0	0	0	0	0	0	0	0	0	18,000	0	0	0
On-site process emissions (GHGs)	lbs CO2e	192000	0	0	0	0	0	190.000	0	0	0	0	0	0	0	0	0
Other Subtota	1		0	0	0	0	0	190,000.	0	0	0	0	0	18,000.	0	0	0
		,	-	-	-	-	-	,	-	· · · · ·	-		-	· · · · ·	-		-

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

												Lev	el 2 (Tr	ansport.) F	Parame	ters Used	, Extract	ed, Emitte	ed, or Ge	enerated (On-Site	- Alternat	ive 4									
			E	nergy	Ele	ectricity	4	All Water	Pota	ble Water	Gro	undwater		CO2e		NO x		SO x		PM	Soli	id Waste	Ha	z. Waste	Ai	ir Toxics	M	ercury		Lead	D	vioxins
		Quantity	Conv.	01	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0			0	0		0)	0		0		0	2	0)	0		0		0		0		0		0		0
Energy																																
Diesel (on-site)	gal	0	139	0	0 0		0 (0 0	0 0	(0 0	0	22.5	0	0.17	(0 0.0054	C	0.0034	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	124	0	0 0		0 (0 0	0 0	(0 0	0	19.6	0	0.11		0 0.0045	C	0.0005	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	103	0	0 0		0 (0 0	0 0	(0 0	0	12	C	0.0001		0 6E-06	C	0 8E-06	0	0	0	0	0	0.29	C	0	0	0 0	0	0	0
Diesel (off-site use)	gal	52571	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Gasoline (off-site use)	gal	24081	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
On-site electricity use	MWh	0	3413	0) 1		0 (0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Electricity transmission*	MWh	7600	0	0	0 0		0 0		0 0	(0 0	0	0 0	0	0		0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	0	0	0 0		0 (0 0	(0 0	0	0 0	C	0		0 0	0	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Energy Subtotal				0			0	0	/	0	,	0		0		C	2	0)	0		0		0		0		0		0		0
	lle	0	0				0 (0 0			0	0				0			0			0	
	di	0	0	0						(0		0	0					0	0	0	0	0	0	0	0	0		0	0	0
HDPE Stool	di	0	0	0						(0		0	0					0	0	0	0	0	0	0	0	0		0	0	0
Steel	di	0	0	0						(0			0					0	0	0	0	0	0		0	0		0	0	0
Gravel/sand		0	0	0											0					0	0	0	0	0	0		0	0		0	0	0
Cement Grout	dry-ton	0	0	0																0	0	0	0	0	0		0	0		0	0	0
Concrete	tons	0	0	0						(0	0	0	0	0	0		0	0		0	0	0
Bentonite	ton	0	0	0						(0			0			0		0	0	0	0	0	0		0	0		0	0	0
Regenerated GAC	lbs	0	0	0			0 0			(0		0	0			0		0	0	0	0	0	0	0	0	0		0	0	0
Bioiniection (Molasses)	lbs	0	0	0			0 0) 0	(0		0	0		0 0	C		0	0	0	0	0	0	0	0	0	0	0	0	0
Bioiniection (Cheese Whey)	lbs	0	0	0	0		0 0) 0	(0 0	0		0	0		0 0			0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0) 0		0 0		0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Diesel Produced	gal	0	0	0) 0		0 (0 0	0 0	(0 0	C	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Gasoline Produced	gal	0	0	0	0 0		0 (0 0	0 0	(0 0	C	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Natural Gas Produced	ccf	0	0	0	0 0		0 (0 0	0 0	(0 0	C	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0 0		0 1	1 0	0 0	(0 1	C	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0	(0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Potable Water Transported	gal x 1000	4	0	0) 0		0 (0	0 0	(0 0	0	0 0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0 0	0	0	0
Potable Water Used	gal x 1000	0	0	0	0 0		0 1	1 () 1	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0 0		0 1	1 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0	0	0	0
Materials Subtotal				0			0	0		0)	0		0		6	0	0)	0		0		0		0		0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	0	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Solid Waste Generation	ton	0	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	1	0	0	0	0	C	0	0	0 0	0	0	0
Solid Waste Disposal	ton	0	0	0	0 0		0 (0 0	0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	0	0	0	C	0	0	0 0	0	0	0
Hazardous Waste Generation	ton	0	0	0	0 0		0 (0 (0 0	(0 0	0	0 0	C	0		0 0	C	0 0	0	0	0	1	0	0	C	0	0	0	0	0	0
Hazardous Waste Disposal	ton	0	0	0	0 0		0 (0 0	(0 0	0	0 0	0	0		0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis	Ş	0	0	0	0 0		0 (J (0 0	(0 0	0	0	0	0		0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtotal				0			0	0		0	,	0		0			,	0	,	0		0		0		0		0		0		0
Other																																
On site process emissions (UADs)	lbc	0	0				0 (0								1					~		
On-site process emissions (HAPS)		0	0	0						(0			0		0	0	0	0	0	1		0	0		0	0	0
On-site process emissions (GHGS)	ibs CO2e	U	0	0	, 0				0				1		0					0	0	0	0	0	0		0	0	0	0	0	0
				0			v	0		0	'	0		<u> </u>		Ĺ	,	0	'	0		0		0		0		0		U		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Leve	el 2 (Tr	ansport.) P	arame	ters Used,	Extract	ted, Emitte	ed, or G	enerated (Off-Site	- Alternati	ive 4									
			E	nergy	Ele	ectricity	Α	ll Water	Potak	ole Water	Gro	undwater		CO2e		NO x		SO x		PM	Sol	id Waste	На	z. Waste	Air	⁻ Toxics	Me	ercury	L	.ead	D	ioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				13,000,000.		910.	,	0.019		0		0		1,700,000.		12,000.	,	390.	,	190.		0.0000023		0		23.		0.000011		0.00000016		0.00000000000012
Discel (on site)	gal	0	0	0	0			0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (on-site)	gal	0	0	0	0			0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on site use)	gai	0	0	0	0			0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0
Diosol (off site use)	cci gal	0 52571	120	7 200 000	0			0	0	0	0	0	225	1 200 000	0 17	8 000		290	0 0024	180	0	0	0	0	0 0002	16	0	0	0	0	0	0
Gasolino (off-site use)	gai	2/081	124	3,000,000.	0			0	0	0	0	0	10.6	1,200,000.	0.17	8,900 2,600	0.0034	110	0.0034	12	0	0	0	0	0.0003	7.2	0	0	0	0	0	0
Natural gas (off-site use)	gai	24081	102	3,000,000.	0			0	0	0	0	0	19.0	470,000.	0.11	2,000	65-06	110.	0.0003	13.	0	0	0	0	0.0003	/.2	0	0	0	0	0	0
	MW/h	0	103	0	0			0	0	0	0	0	12	0	0.0001					0	0	0	0	0	0.29	0	0	0	0	0	0	0
Electricity transmission*	M/M/b	7600	410	3 100 000	0 12	910		0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	M/M/b	7000	7800	3,100,000.	0.12	910	. 0	0	0	0	0	0	800	0	0.84					0		0	0	0	0.017	0	35-06	0	35-05	0	0F-12	0
Energy Subtotal		0	7800	13 000 000	0.00	910	5 7.5	0	0	0	0	0	800	1 700 000	0.84	12,000	5 0.7	390	0.087	190	0.0009	0	0	0	0.017	22	32-00	0	32-03	0	91-12	0
				13,000,000.		910.		0		0				1,700,000.		12,000.		550.		190.		U		U		23.				U		0
Materials																																
PVC	lh	Ο	22	0	0.0006	r		0	0	0	0	0	<u>/ 1</u>	0	0.0048	с С	0.0076		0.0012		2E-06	0	2F-06	0	0.0005	0	3F-07	0	1E-07	0	7F-09	0
HDPF	lb	0	31	0	0.0000		0.0003	0	0	0	0	0	4.1	0	0.0048		0.0070			0	2L-00	0	1E-06	0	3E-06	0	3E-07	0	2E-09	0	1E-09	0
Steel	lb	0	11	0	0.0003			0	0	0	0	0	1.5	0	0.0032		0.0041			0	40.0003	0	11-00	0	7E-05	0	1E-07	0	3E-06	0	7E-12	0
Steel Stainless Steel	lb	0	11.6	0	0.0002			0	0	0	0	0	3.4	0	0.0014		0.0017			0	0.0003	0	0	0	0.0001	0	10-07	0	5E-07	0	7E-12	0
Gravel/sand	ton	0	55	0	0.0000		0.0023	0	0	0	0	0	6.7	0	0.0073				0.0044	0	0.0000	0	0	0	4F-07	0	6F-11	0	1E-09	0	2E-12	0
Cement Grout	dry-ton	0	/100	0	0.0027		0.13	0	0	0	0	0	1800	0	3.6		$\frac{5}{1}$ $\frac{0.03}{2}$		0.004	0	0	0	0	0	0.058	0	6E-05	0		0	9F-11	0
Concrete	tons	0	793	0	0.13		0.41	0	0	0	0	0	335	0	0.68		0.41		0.0003	0	3E-08	0	0	0	0.038	0	1E-05	0	2E-05	0	2F-11	0
Bentonite	ton	0	,55	0	0.020		0.13	0	0	0	0	0	67	0	0.00					0	0	0	0	0	4F-07	0	6F-11	0	1E-09	0	2E 11	0
Regenerated GAC	lbs	0	9.6	0	0.0027		0.13	0	0	0	0	0	2	0	0.035		0.05			0	0	0	0	0	4L 07	0	000 11	0	0	0	21 10	0
Bioinjection (Molasses)	lbs	0	1.31	0	5E-06		9F-05	0	0	0	0	0	0.4	0	0.003		0.0026		0 6F-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	0	0			0	0	0	0	0	1.1	0	0.0083	(0.0099		0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6	0	6E-05	0	2E-05	0	0	0	0	0	3.51	0	0.0265	(0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	18.5	0	0.0006	0	0.0008	0	0	0	0	0	2.7	0	0.0064	0	0.013	0	0.0003	0	4E-07	0	0	0	0.0001	0	5E-08	0	2E-06	0	3E-14	0
Gasoline Produced	gal	0	21	0	0.0006	C	0.0008	0	0	0	0	0	4.4	0	0.008	0	0.019	0	0.0005	0	4E-07	0	0	0	0.0002	0	9E-08	0	2E-06	0	3E-14	0
Natural Gas Produced	ccf	0	5.2	0	0.0003	C	0 8E-05	0	0	0	0	0	2.2	0	0.0037	0	0.0046	0) 7E-05	0	0	0	0	0	6E-06	0	2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	9.2	0	0.0004	C	0.021	0	0	0	0	0	5	0	0.0097	(0.0059	0	0.016	0	8E-07	0	0	0	2E-05	0	8E-09	0	7E-08	0	1E-13	0
Potable Water Transported	gal x 1000	4	7.4	30.	0.0006	0.0026	5 0.0047	0.019	0	0	0	0	0.5168	2.1	0.0005	0.0022	2 0.0043	0.017	7 6E-05	0.00022	6E-07	0.0000023	0	0	0	0	3E-06	0.000011	4E-08	0.00000016	3E-14	0.0000000000012
Potable Water Used	gal x 1000	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal				30.		0.0026	5	0.019		0		0		2.1		0.0022	?	0.017	/	0.00022		0.0000023		0		0		0.000011		0.00000016		0.00000000000012
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	0	3.7	0	0.0002	C	0.0008	0	0	0	0	0	3	0	0.0061	0	0.0029	C	0 8E-05	0	5E-07	0	0	0	0.0001	0	8E-08	0	6E-07	0	1E-12	0
Solid Waste Generation	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	160	0	0.0077	C	0.15	0	0	0	0	0	25	0	0.14	C	0.075	C	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	0	0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	0	176	0	0.0085	C	0.165	0	0	0	0	0	27.5	0	0.154	(0.0825	C	0.44	0	9E-06	0	0	0	0.0015	0	1E-06	0	8E-06	0	1E-11	0
Laboratory Analysis	\$	0	8.8	0	0.0005	C	0.0006	0	0	0	0	0	1.3	0	0.0045	0	0.003	C	0.0001	0	0	0	0	0	0.0002	0	0	0	0	0	0	0
Waste and Other Services Subtotal				0		0)	0		0		0		0		0)	0)	0		0		0		0		0		0		0
Other																																
On-site process emissions (HAPs)	lbs	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	C	0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	0	0	C	0 0	0	0	0	0	0	0	0	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal				0		0		0		0		0		0		0		0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

							Lev	vel 2 (Transpo	rt.) Total On-9	Site and Off-S	ite Parameters	- Alternative	4				
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals	1		13,000,000.	910.	0.019	0	0	1,700,000.	12,000.	390.	190.	0.0000023	0	23.	0.000011	0.00000016	0.00000000000012
										_							
Energy																	
Diesel (on-site)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	52571	7,300,000.	0	0	0	0	1,200,000.	8,900.	280.	180.	0	0	16.	0	0	0
Gasoline (off-site use)	gal	24081	3,000,000.	0	0	0	0	470,000.	2,600.	110.	13.	0	0	7.2	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	7600	3,100,000.	910.	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtotal			13,000,000.	910.	0	0	0	1,700,000.	12,000.	390.	190.	0	0	23.	0	0	0
			+ +								+ +						
Materials	11-														-		
	dl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ID Ib	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Steel	dl	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stainless Steel	di	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gravel/sand	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cement Grout	dry-ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	tons	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bentonite	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Regenerated GAC	IDS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	IDS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	IDS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	IDS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced	gai	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	4	30.	0.0026	0.019	0	0	2.1	0.0022	0.017	0.00022	0.0000023	0	0	0.000011	0.0000016	0.0000000000012
Potable Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			30.	0.0026	0.019	0	0	2.1	0.0022	0.017	0.00022	0.000023	0	0	0.000011	0.0000016	0.00000000000012
Waste and Other Services			+ +	+ +	+ +	+ +								+ +	+ +		
Off-site waste water treatment	gal v 1000	0									0						0
Colid Waste Congration		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Wasta Concretion	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Laboratory Applysis	ć	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtetel	Ş	0	0	0	0	0	0		0	0	0		0	0	0		0
			0	0	0	0	0		0	0	0	0	5	0	0	0	0
Other			+ +		<u> </u>				<u> </u>			<u> </u>		H 1	H + +		
On-site process emissions (HAPs)	lhs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (FIAI 3)	lbs CO2e	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtatal	103 0020		0	0	0	0	0		0	0	0		0		0	0	0
			0	0	U	U	v			U	U		J	0	0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

- Mercury,lead, and dioxins released refers to releases to air and water

												Le	vel 3 (C	Off-Site) Pa	ramete	ers Used, E	xtracte	d, Emitted	d, or Gene	rated Or	n-Site -	Alternativ	e 4									
			EI	nergy	Ele	ectricity	ļ	All Water	Pota	ble Water	Grou	undwater		CO2e		NO x		SO x	PN	М	Soli	d Waste	Ha	z. Waste	Ai	r Toxics	Me	ercury		Lead	C	Dioxins
		Quantity	Conv.	01	Conv.	· · · · · /	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released	Factor	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				0		(0	0		0		0		0		0		0		0		0		0		0		0		0		0
Energy																																
Diesel (on-site)	gal	0	139	C	0 0		0 (0 0	0	0	0	C	22.5	C	0.17	(0.0054	0	0.0034	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	124	C	0 0		0 (0 0	0	0	0	0	19.6	C	0.11	(0.0045	0	0.0005	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	103	C	0 0		0 (0 0	0	0	0	0	12	C	0.0001	(0 6E-06	0	0 8E-06	0	0	0	0	0	0.29	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	C	0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	C	0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	3413	C) 1		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	7600	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Subtotal				0			0	0		0		0		0		0)	0)	0		0		0		0		0		0		0
								_																								l
Materials		2200					0								0																	
	ID	3300	0				0 0		0	0	0	0	0 0	0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
HDPE Stool	ID Ib	2000	0	(0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Steel	di Ib	2100	0				0 0		0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Stamless Steel	di	2100	0						0	0	0	0			0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Gravel/salid	dry top	2037	0	(0	0	0	0			0			0		0	0	0	0	0	0		0	0	0	0	0	0
Concrete	tons	20	0						0	0	0	0			0			0		0	0	0	0	0	0		0	0	0	0	0	0
Bentonite	ton	0	0							0	0	0			0			0		0	0	0	0	0	0	0	0	0	0	0	0	0
Begenerated GAC	lbs	8360000	0							0	0	0			0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Righterated GAC	lbs	0	0				0 0		0	0	0	0			0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	(0 (0	0	0	0		0	0	(0		0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0) 0		0 0		0	0	0	0	0	0	0) 0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	57210	0) 0		0 (0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline Produced	gal	24526.2	0	C) 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural Gas Produced	ccf	0	0	C) 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Groundwater Extracted On-site	gal x 1000	0	0	C) 0		0 :	1 0	0	0	1	0) 0	C	0	() 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Produced	gal x 1000	4	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Transported	gal x 1000	0	0	C) 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	C	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Potable Water Used	gal x 1000	0	0	0	0 0		0	1 0	1	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used	gal x 1000	0	0	C	0 0		0 :	1 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtotal				0			0	0		0		0		0		0		0		0		0		0		0		0		0		0
Waste and Other Services																																
Off-site waste water treatment	gal x 1000	2733000	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Generation	ton	0	0	C	0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	1	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	0	0	0	0 0		0 (0 0	0	0	0	0	0 0	0	0	(0 0	0	0 0	0	0	0	1	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	6200	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	(0 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laboratory Analysis	Ş	1103400	0	C	0 0		0 (0 0	0	0	0	0	0 0	C	0	() 0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waste and Other Services Subtotal				0			0	0		0		0		0		0		0		0		0		0		0		0		0		0
Other										ļ				ļ																		
	lha						0			^				^	0						0											-
On-site process emissions (HAPs)		0	0	(0	0	0	0	0		0	(0		0	0	0	0	0	1	0	0	0	0	0	0	0
On-site process emissions (GHGS)	ibs CO2e	U	0	(, 0				0	0	0	0	, 1		0	(0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
				0			U	0		0		0		0				0		U		0		0		0		0		0		0

- All results are rounded to two significant digits

- Groundwater extracted refers to Groundwater extracted on-site that is not reinjected to an aquifer of similar quality

- All water refers to all water of any variety used on-site that is not returned to its original source. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

												Le	vel 3 (0	Off-Site) Pa	ramete	ers Used, E	xtracte	d, Emitted	, or Gei	nerated Of	f-Site -	Alternativ	'e 4									
			I	Energy	El	ectricity	Α	ll Water	Potak	ble Water	Gro	undwater		CO2e		NO x		SO x		РМ	Soli	d Waste	На	z. Waste	Aiı	Toxics	Me	ercury	Lea	ad	D	ioxins
		Quantity	Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.		Conv.	C	Conv.		Conv.	
		Used	Factor	Used	Factor	Used	Factor	Used	Factor	Used	Factor	Extracted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Emitted	Factor	Generated	Factor	Generated	Factor	Emitted	Factor	Released F	actor F	Released	Factor	Released
				Mbtu		MWh		gal x 1000		gal x 1000		gal x 1000		lbs		lbs		lbs		lbs		tons		tons		lbs		lbs		lbs		lbs
Totals				160.000.000		5 400		110.000		0		0		24 000 000		240.000		100.000		2 000		22		0 0072		720		0.27		2.2		0 000020
				160,000,000.	•	5,400.	•	110,000.		0		0		34,000,000.		240,000.		190,000.		3,900.		23.		0.0073		720.		0.27		2.3		0.000028
Energy																																
Diesel (on-site)	gal	0	0			(0	0	0		0		0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0					0	0	0		0		0	0	(0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0					0	0	0		0		0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	139					0	0	0		0	22.5	0	0.17		0.0054	0	0.0034	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	124		0 0	(0	0	0	0 0	0	19.6	0	0.11	(0.0045	0	0.0005	0	0	0	0	0	0.0003	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	103	0	0 0	(0 0	0	0	0	0 0	0	12	0	0.0001	() 6E-06	0	8E-06	0	0	0	0	0	0.29	0	0	0	0	0	0	0
On-site electricity use	MWh	0	0	(0 0	(0 0	0	0	0	0 0	0	0 0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	410	(0 0.12	(0 0	0	0	0	0 0	0	0 0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	7600	7800	59,000,000	0.06	460). 7.3	55,000.	0	0	0 0	0	800	6,100,000.	0.84	6,400	. 6.7	51,000.	0.087	660.	0.0009	6.8	0	0	0.017	130.	3E-06	0.02	3E-05	0.24	9E-12	0.000000065
Energy Subtotal	1			59,000,000.		460.		55,000.		0		0		6,100,000.		6,400.		51,000.		660.		6.8		0		130.		0.02		0.24		0.00000065
Materials																																
PVC	lb	3300	22	73,000	0.0006	1.8	8 0.0069	23.	0	0	0 0	0	4.1	14,000.	0.0048	16	. 0.0076	25.	0.0012	4.	2E-06	0.0073	2E-06	0.0053	0.0005	1.6	3E-07	0.0011	1E-07	0.00043	7E-09	0.000023
HDPE	lb	2000	31	62,000	0.0003	0.5	5 0.0023	4.6	0	0	0	0	1.9	3,800.	0.0032	6.4	4 0.0041	8.2	0.0006	1.3	4E-07	0.00086	1E-06	0.002	3E-06	0.0068	3E-09	0.0000052	2E-09	0.0000048	1E-09	0.000002
Steel	lb	56900	4.4	250,000	0.0002	12	0.0006	36.	0	C	0 0	0) 1.1	63,000.	0.0014	80	. 0.0017	97.	0.0006	32.	0.0003	14.	0	0	7E-05	3.8	1E-07	0.0057	3E-06	0.14	7E-12	0.0000037
Stainless Steel	lb	2100	11.6	24,000	0.0006	1.2	2 0.0023	4.8	0	0	0	0	3.4	7,100.	0.0075	16	. 0.012	25.	0.0044	9.2	0.0006	1.3	0	0	0.0001	0.3	0	0	5E-07	0.0011	2E-12	0.000000046
Gravel/sand	ton	5637	55	310,000	0.0027	15	0.13	730.	0	0	0	0	6.7	38,000.	0.033	190	. 0.03	170.	0.004	23.	0	0	0	0	4E-07	0.0023	6E-11	0.0000036	1E-09	0.000068	2E-16	0.00000000000085
Cement Grout	dry-ton	26	4100	110,000	0.13	3.4	4 0.41	11.	0	C	0 0	0	1800	47,000.	3.6	94	. 2.1	55.	0.0063	0.16	0	0	0	0	0.058	1.5	6E-05	0.0015 0	0.0001	0.0034	9E-11	0.000000022
Concrete	tons	349	793	280,000	0.026	9.1	1 0.19	66.	0	0	0	0	335	120,000.	0.68	240	. 0.41	140.	0.0044	1.5	3E-08	0.0000098	0	0	0.011	3.8	1E-05	0.0035	2E-05	0.0084	2E-11	0.0000000056
Bentonite	ton	0	55	0	0.0027	(0 0.13	0	0	0	0	0	6.7	0	0.033	(0.03	0	0.004	0	0	0	0	0	4E-07	0	6E-11	0	1E-09	0	2E-16	0
Regenerated GAC	lbs	8360000	9.6	80,000,000	0.0004	3,700	0.0064	54,000.	0	0	0	0	2	17,000,000.	0.025	210,000	. 0.015	130,000.	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Molasses)	lbs	0	1.31	0	0 5E-06	(0 9E-05	0	0	0	0	0	0.4	0	0.003	(0.0026	0	6E-05	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	1.87	0	0 0	(0 0	0	0	0	0	0	1.1	0	0.0083	(0.0099	0	0.0002	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	3.6		0 6E-05	(0 2E-05	0	0	0	0	0	3.51	0	0.0265	(0.031	0	0.0017	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	gal	5/210	18.5	1,100,000	0.0006	34	. 0.0008	44.	0	0	0 0	0	2.7	150,000.	0.0064	370	. 0.013	740.	0.0003	19.	4E-07	0.021	0	0	0.0001	6.9	5E-08	0.0027	2E-06	0.086	3E-14	0.0000000017
Gasoline Produced	gal	24526.2	21	520,000	0.0006	14	. 0.0008	19.	0	0	0 0	0	4.4	110,000.	0.008	200	. 0.019	470.	0.0005	13.	4E-07	0.01	0	0	0.0002	3.9	9E-08	0.0021	2E-06	0.054	3E-14	0.0000000076
Natural Gas Produced		0	5.2		0.0003		0 8E-05	0	0	0		0	2.2	0	0.0037		0.0046	0	7E-05	0	0	0	0	0	6E-06	0	2E-08	0	9E-07	0	5E-14	0
Groundwater Extracted On-site	gal x 1000	0	0			0.0016		0.084	0	0		0		0	0	0.020		0.024	0.016	0		0 0000033	0	0		0		0	75.09.0	00000027	15 12	0
Potable Water Froduced	gal x 1000	4	9.2	3/	0.0004	0.0018	8 0.021	0.084	0	0		0		20.	0.0097	0.035	0.0059	0.024	0.016	0.064	8E-07	0.0000033	0	0	2E-05	0.0006	8E-09	0.00000033	7E-08 0.	.00000027	1E-13	0.0000000000000000000000000000000000000
Potable Water Llead	gal x 1000	0	7.4				0.0047	0	0			0	0.5108	0	0.0003		0.0043	0	02-05	0	02-07	0	0	0	0	0	52-00	0	41-08	0	52-14	0
Other On-Site Water Used	gal x 1000	0	0	((((0	0	0		0		0	0	((0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials Subtota	1		0	83,000 000		3 800	0	55,000	0	0		0	, 0	18.000.000	0	210 000		130.000	0	100	0	15	0	0.0073	0	22	0	0.017	0	0.29	0	0.00025
	-					3,000.	-	33,000.						10,000,000.		110,000.		200,000.		100.		13.		0.0075		~~~		0.017		5.25		0.000025
Waste and Other Services	1																															
Off-site waste water treatment	gal x 1000	2733000	3.7	10.000.000	0.0002	490	0.0008	2.300	0	0	0	0) 3	8,200.000.	0.0061	17.000	. 0.0029	7.900	8E-05	220	5E-07	1.3	0	0	0.0001	330.	8E-08	0.22	6E-07	1.7	1E-12	0.0000027
Solid Waste Generation	ton	0	0	(0 0	(0 0	0	0	0	0 0	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solid Waste Disposal	ton	0	160	(0 0.0077	(0 0.15	0	0	0	0 0	0	25	0	0.14	(0.075	0	0.4	0	8E-06	0	0	0	0.0014	0	1E-06	0	8E-06	0	1E-11	0
Hazardous Waste Generation	ton	0	0	0	0 0	(0 0	0	0	0	0	0	0 0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Disposal	ton	6200	176	1,100,000	0.0085	53	0.165	1,000.	0	C	0 0	0	27.5	170,000.	0.154	950	. 0.0825	510.	0.44	2,700.	9E-06	0.055	0	0	0.0015	9.5	1E-06	0.0066	8E-06	0.052	1E-11	0.00000082
Laboratory Analysis	\$	1103400	8.8	9,700,000	0.0005	550	0.0006	620.	0	0	0	0	1.3	1,400,000.	0.0045	5,000	. 0.003	3,300.	0.0001	130.	0	0	0	0	0.0002	230.	0	0	0	0	0	0
Waste and Other Services Subtotal	1			21,000,000.		1,100.		3,900.		0		0		9,800,000.		23,000.		12,000.		3,100.		1.4		0		570.		0.23		1.8		0.0000028
Other																																
On-site process emissions (HAPs)	lbs	0	0	0	0 0	(0 0	0	0	0	0	0	0 0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site process emissions (GHGs)	lbs CO2e	0	0	(0 0	(0 0	0	0	0	0	0	0 0	0	0	(0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtota	1			0)	0)	0		0		0		0		0		0		0		0		0		0		0		0		0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

							L	evel 3 (Off-Site	e) Total On-Sit	e and Off-Site	e Parameters -	Alternative 4					
			Energy	Electricity	All Water	Potable Water	Groundwater	CO2e	NO x	SO x	PM	Solid Waste	Haz. Waste	Air Toxics	Mercury	Lead	Dioxins
		Quantity Used	Used	Used	Used	Used	Extracted	Emitted	Emitted	Emitted	Emitted	Generated	Generated	Emitted	Released	Released	Released
			Mbtu	MWh	gal x 1000	gal x 1000	gal x 1000	lbs	lbs	lbs	lbs	tons	tons	lbs	lbs	lbs	lbs
Totals			160,000,000.	5,400.	110,000.	0	0	34,000,000.	240,000.	190,000.	3,900.	23.	0.0073	720.	0.27	2.3	0.000028
Energy																	
Diesel (on-site)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (on-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (on-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline (off-site use)	gal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Natural gas (off-site use)	ccf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On-site electricity use	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity transmission*	MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Electricity production*	MWh	7600	59,000,000.	460.	55,000.	0	0	6,100,000.	6,400.	51,000.	660.	6.8	0	130.	0.02	0.24	0.00000065
Energy Subtotal			59,000,000.	460.	55,000.	0	0	6,100,000.	6,400.	51,000.	660.	6.8	0	130.	0.02	0.24	0.00000065
Materials																	
PVC	lb	3300	73,000.	1.8	23.	0	0	14,000.	16.	25.	4.	0.0073	0.0053	1.6	0.0011	0.00043	0.000023
HDPE	lb	2000	62,000.	0.5	4.6	0	0	3,800.	6.4	8.2	1.3	0.00086	0.002	0.0068	0.0000052	0.0000048	0.000002
Steel	lb	56900	250.000.	12.	36.	0	0	63.000.	80.	97.	32.	14.	0	3.8	0.0057	0.14	0.0000037
Stainless Steel	lb	2100	24.000.	1.2	4.8	0	0	7.100.	16.	25.	9.2	1.3	0	0.3	0	0.0011	0.000000046
Gravel/sand	ton	5637	310.000.	15.	730.	0	0	38.000.	190.	170.	23.	0	0	0.0023	0.0000036	0.0000068	0.00000000000085
Cement Grout	dry-ton	26	110.000	3.4	11	0	0	47,000	94.	55.	0.16	0	0	1.5	0.0015	0.0034	0.000000022
Concrete	tons	349	280,000	9.1	66	0	0	120,000	240.	140.	1.5	8600000	0	3.8	0.0035	0.0084	0.0000000056
Bentonite	ton	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0000	0.0001	0
Regenerated GAC	lbs	8360000	80,000,000	3 700	54 000	0	0	17,000,000	210,000	130,000	0	0	0	0	0	0	0
Righteriated G/C	lbs	0	00,000,000	3,700:	0,000	0	0	17,000,000	210,000.	130,000.	0	0	0	0	0	0	0
Bioinjection (Cheese Whey)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bioinjection (Vegetable Oil)	lbs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel Produced	103 gal	57210	1 100 000	24	14	0	0	150,000	370	740	10	0.021	0	69	0.0027	0.086	0.000000017
Casoline Produced	gal	24526.2	520,000	14	44.	0	0	130,000.	370.	/40.	13.	0.021	0	2.0	0.0027	0.080	0.0000000017
Natural Cas Produced	gai	24320.2	320,000.	14.	19.	0	0	110,000.	200.	470.	13.	0.01	0	5.9	0.0021	0.034	0.0000000070
Groundwater Extracted On site		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Botable Water Broduced	gal x 1000	0	27	0.0018	0.084	0	0	20	0.020	0 024	0.064	0 0000033	0	0,00006	0 00000022	0 00000027	0
Potable Water Transported	gal x 1000	4	37.	0.0018	0.084	0	0	20.	0.039	0.024	0.004	0.0000033	0	0.00008	0.000000055	0.0000027	0.000000000004
Potable Water Hansported		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other On-Site Water Used		0	0	0	0	0	0	0		0	0	0	0	0		0	0
Matoriale Subtotal	Bary TOOO	0	82 000 000	2 000	EE 000			18 000 000	210,000	120,000	100	15	0.0072	22	0.017	0.20	0 000025
			83,000,000.	5,800.	55,000.	0	0	18,000,000.	210,000.	130,000.	100.	15.	0.0073	22.	0.017	0.29	0.000025
Waste and Other Services				+ +	+ +						+ +				+ +	+ +	
Off site waste water treatment	gal v 1000	2722000	10,000,000	400	2 200			8 200 000	17.000	7 000	220	1.2		220	0.22	1 7	0.0000027
Solid Waste Concretion	gai x 1000	2733000	10,000,000.	490.	2,300.	0	0	8,200,000.	17,000.	7,900.	220.	1.3	0	330.	0.22	1./	0.000027
Solid Waste Dispasal	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Wasta Constantian	ton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hazardous Waste Generation	ton	6200	0	0	1 000	0	0	170.000	0	0	0	0	0	0	0 00000	0	0
hazaruous waste Disposal	ton č	0200	1,100,000.	53.	1,000.	0	0	1 400 000	950.	510.	2,700.	0.055	0	9.5	0.0066	0.052	0.00000082
	Ş	1103400	9,700,000.	550.	620.	0	0	1,400,000.	5,000.	3,300.	130.	0	0	230.	0	0	0
waste and Other Services Subtotal			21,000,000.	1,100.	3,900.	0	0	9,800,000.	23,000.	12,000.	3,100.	1.4	0	570.	0.23	1.8	0.000028
Other			+ +		+ +	++			 		+ +				├ ───┤	+ +	
	U																
On-site process emissions (HAPs)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Un-site process emissions (GHGs)	ibs CO2e	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Subtotal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- All results are rounded to two significant digits

- All water refers to all water of any variety (excluding sea water) that is used. This can include potable water, groundwater, surface water, reclaimed water, etc.

- Air toxics refers to Hazardous Air Pollutant (HAPs) as defined by EPA

Traffic and Personnel - Alternative 4

		Level 1 -On-	Level 2 -	Level 3 -	Level 4 -	Level 5 -	Level 6 -	
ltem	Units	Site	Transport.	Off-Site	Not Used	Not Used	Not Used	Total
<u>Traffic</u>								
Number of passenger car trips to the site	trips		0					0
Number of light-duty truck trips to the site	trips		2841					2,841
Number of freight or other heavy duty truck trips to the site	trips		1455					1,455
Total passenger car miles driven	miles		0					0
Total light-duty truck miles driven	miles		240812					240,812
Total freight or other heavey duty truck miles driven	miles		698950					698,950
<u>Personnel</u>								
On-site man days worked	man-days	5191						5,191