
IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
REUSE PERMIT
LA-000005-04: Modification 1

Permittee Name: ConAgra Foods Lamb Weston, American Falls, Idaho Facility

Effective Date of Modification: June 24, 2016

Complete Description of Modification:

1. As required by Table F-1, of Reuse Permit LA-000005-04, ConAgra Foods Lamb Weston has submitted the permit modification request, has previously submitted a site characterization, and has submitted a Plan of Operation that is on file with DEQ.
2. DEQ is in agreement with the description in the request that MU-000524 consists of essentially the same site characterization as the newly proposed Solids Management Unit, as well as the 220 acres currently permitted for process water application. The site characterization was submitted to DEQ from ConAgra Lamb Weston on June 26, 2015. DEQ provided site characterization approval on October 16, 2015.
3. ConAgra Lamb Weston has maintained healthy crops on MU-000524 for over two years with fresh water irrigation, so the site is more amenable to productive crop growth than when the site was originally characterized.
4. Site soils on MU-000524 have been monitored and reported the past five-years as required by the permit.

In addition to continued fresh water application, DEQ is providing approval for the application of process water on MU-000524, in accordance with the existing permit requirements, and in accordance with the proposal submitted to DEQ on June 24, 2016..

1. Since MU-000524 is currently listed in the permit tables as irrigable acreage, the permit does not require modification to add the specific acreage or monitoring requirements for MU-000524.

2. This authorization serves to modify the 'Wastewater Application Sites' row, the 'Flow' column of Table F-1, to allow application of combined process water and fresh water during the growing season up to the crop-specific Irrigation Water Requirement (IWR) of the crop, replacing the table entry of '0' flow.
3. This authorization serves to modify the 'Non-growing Season Maximum Hydraulic Loading rate (HLRngs) for each MU' row, the 'Inches' and 'Million Gallons' columns of Table F-1 to reflect the same 8.13 inches of non-growing season hydraulic application, or a total of 15.9 million gallons, replacing the '0' values in those columns (only 72 acres of the 92.44 acre site is actually under pivot irrigation.)
4. This authorization serves to modify Table K-1 to make MU-000524 an active management unit for the application of process water, as well as supplemental irrigation water.
5. The modified permit table entries are attached as a modification to the permit.
6. All volumes of applied process water and supplemental irrigation water will be measured separately and reported in the annual report, along with all other reporting requirements.
7. All growing season and non-growing season nutrient loading limits listed in the permit will be maintained.
8. Site maps are not updated as part of this modification, but will be updated to reflect the total irrigable acreage at permit renewal, which is expected to occur within 30 days.
9. Future annual reports will be expected to include all applicable reporting for MU-000524.

The following tables show the corrected table values. These table entries will replace the values in Table F-1 and Table K-1 respectively, of reuse permit LA-00005-04.

Table F-1 - Site Specific Permit Conditions

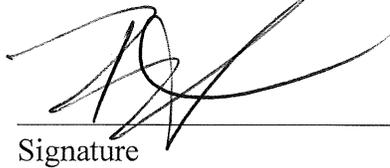
PERMIT CONDITION	PERMIT REQUIREMENT/DESCRIPTION		
General Applicability			
Wastewater Application Sites		Area (acres)	Flow (MGA)
	Land Application Area	220.3	116
		92.44	Crop-Specific Irrigation Water Requirement
	16 Pond System	240.6	890
Total (approximate) [†]	460.9	1006	
Application Season	Land Application Area	Year Round	
	16 Pond System	Year Round	
Reporting Period (Operating Year)	November 1 through October 31		
Flow Measurement and Calibration	The Permittee shall calibrate flow meters used to directly or indirectly measure wastewater and supplemental irrigation water flows (excluding the Parshall flume) annually or in accordance with manufacturer's recommendations. Calibration documentation shall be submitted with the Annual Report as required by Sections G. and H. in this permit.		

Sprinkle Application Area																																											
Growing Season Maximum Wastewater Hydraulic Loading Rate (HLR _{gs}) for each HMU (Sum of WW + SIW) each HMU	<p>Growing Season (GS) Hydraulic Loading Rate shall generally follow the Irrigation Water Requirement (IWR) using data from the tables of the following University Of Idaho web site: U of I at Kimberly</p> <p>IWR is equal to the Mean IR data from these tables divided by the irrigation system efficiency.</p> <p>In lieu of these tables, current climatic and evaporation data, or 30-year average data may be used to calculate the IWR. (Assume no carryover soil moisture and a leaching rate of zero in calculating the IWR.)</p>																																										
Non-growing Season Maximum Hydraulic Loading Rate (HLR _{ngs}) for each HMU	<p>HLR_{ngs} = Soil Available Water-Holding Capacity (AWC) – Precipitation + Evapotranspiration_{NGS} using the following values:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Soil AWC:</td> <td colspan="3">dependent on soil type(s)</td> </tr> <tr> <td>Precipitation NGS:</td> <td colspan="3">4.96 inches (Nov 1 through Mar 31)</td> </tr> <tr> <td>Evapotranspiration NGS:</td> <td colspan="3">5.89 inches (Nov 1 through Mar 31)</td> </tr> <tr> <td>HMU #</td> <td style="text-align: center;">Acres</td> <td style="text-align: center;">Inches</td> <td style="text-align: center;">Million Gallons</td> </tr> <tr> <td>MU-000520</td> <td style="text-align: center;">57.2</td> <td style="text-align: center;">8.13</td> <td style="text-align: center;">12.6</td> </tr> <tr> <td>MU-000521</td> <td style="text-align: center;">54.2</td> <td style="text-align: center;">8.13</td> <td style="text-align: center;">12.0</td> </tr> <tr> <td>MU-000522</td> <td style="text-align: center;">57.2</td> <td style="text-align: center;">8.13</td> <td style="text-align: center;">12.6</td> </tr> <tr> <td>MU-000523</td> <td style="text-align: center;">51.7</td> <td style="text-align: center;">8.13</td> <td style="text-align: center;">11.4</td> </tr> <tr> <td>MU-000524</td> <td style="text-align: center;">92.44</td> <td style="text-align: center;">8.13</td> <td style="text-align: center;">15.9</td> </tr> <tr> <td></td> <td style="text-align: center;">220.3</td> <td></td> <td style="text-align: center;">48.6</td> </tr> </table> <p>The maximum HLR_{ngs} for each HMU shall not be exceeded. The maximum total HLR_{ngs} for the entire site is 48.63 million gallons per year.</p>			Soil AWC:	dependent on soil type(s)			Precipitation NGS:	4.96 inches (Nov 1 through Mar 31)			Evapotranspiration NGS:	5.89 inches (Nov 1 through Mar 31)			HMU #	Acres	Inches	Million Gallons	MU-000520	57.2	8.13	12.6	MU-000521	54.2	8.13	12.0	MU-000522	57.2	8.13	12.6	MU-000523	51.7	8.13	11.4	MU-000524	92.44	8.13	15.9		220.3		48.6
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COD Loading (Seasonal Basis) GS and NGS each HMU	50 lb./ac-day																																										
Annual Nitrogen Loading (Annual Basis) each HMU	150% of typical crop uptake																																										
Allowable Crops	Crops grown for direct human consumption (crops not processed prior to consumption) are not allowed.																																										
Grazing	Grazing is allowed only under the provisions of a Grazing Management Plan approved by the Department																																										

Table K-1 Hydraulic Management Units

<i>Sprinkle Irrigated Land Application System</i>			<i>Active?</i>
MU-000520	CP-1	57.2	<input checked="" type="checkbox"/>
MU-000521	CP-2	54.2	<input checked="" type="checkbox"/>
MU-000522	CP-3	57.2	<input checked="" type="checkbox"/>
MU-000523	WL + SS	51.7	<input checked="" type="checkbox"/>
MU-000524	CP-4	92.44	<input checked="" type="checkbox"/>
Total Irrigated Acres		312.74	

The modifications described above in Modification 1 are hereby approved. This modification to the permit is incorporated into and constitutes the correct information in Table F-1 and Table K-1 of reuse permit LA-000005-04, for the ConAgra Foods Lamb Weston, Inc., American Falls, Idaho Facility. The modified permit is incomplete under IDAPA 58.01.17, "Recycled Water Rules," without this modification attached.



Signature

6-24-16

Date

Bruce Olenick
Regional Administrator
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Pocatello Regional Office

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