## ASPHALT INSPECTION FORM

#### Darling Ingredients - Tacoma, Washington Facility

Facility No.: 25455514, Cleanup Site No.: 8475, VCP Project No.: SW1317

Asphalt inspection is a requirement in the Corrective Action Plan (Tetra Tech 2020) and as part of Washington Department of Ecology's (Ecology's) No Further Action (NFA) designation for the Darling Ingredients facility at 2041 Marc Avenue in Tacoma, Washington.

This inspection form was developed as a basic guide for conducting an inspection of the asphalt cap at the facility to help identify areas that may be of potential concern. Areas identified may require more frequent monitoring, or additional inspection and possibly repair by a qualified asphalt contractor to maintain asphalt integrity. Maintenance of asphalt cracks is critical to prevent further damage and/or limit pathways for contaminant migration to, or mobilization of existing contaminants in, the subsurface.

GENERAL INSPECTION INFORMATION						
Company Condu	cting Inspection: _XTetra Tech	Darling Ingredients	Date: 2-1-2023	Time:1000		
Inspection Conducted By:		Weather at Time of Inspection:				
Name: Natalie J. Morrow, LG, LHG		_39 Temperature (°F)				
Signature:	m	Sunny _X_Partly S	unnyMostly Cloue	dyOvercast		
	and the second s	Raining Rain within Past 24 hours				

# **ASPHALT INSPECTION**

Complete the following questions and document areas identified on the attached map. If unsure, documen condition(s) to the best of your ability. Additional consultation with an asphalt specialist may be needed for a concern.	
1. General Asphalt Surface Conditions at Time of Inspection:	
Wet Mostly Wet with Dry Patches Dry _XMostly Dry with Wet Patches	
2. Areas of Ponded Water, Indications Ponded Water in the Past, or Moisture/Water Evident in Cracks? If yes, document these areas below and on the attached map.	_X_YesNo
How many areas were identified with ponded water or indications of past ponded water (e.g., asphalt staining, sediment accumulation, prior observations), or evidence of water? <i>Minor ponding at north drain adjacent to weigh scale ramp, ponding at south drain near work shop. Two additional very small areas of ponded water. Visible areas of asphalt in each appeared in good condition. Moisture present along edges of cracks and joints of asphalt patch areas.</i>	# of Areas 2+
For the areas identified, are there indications of asphalt degradation (cracking, loose rock, sand, broken asphalt, etc.)?	Yes _XNo
List the location(s) of the areas identified that indicate potential degradation and describe the condition obs locations on the map. See attached map and photograph log. Alligator cracks and some linear cracks observed primarily on the work shop and lunchroom buildings. The north gate with weigh scale is the main site entry for haul trucks i facility. Note: Crack locations on attached map are approximate.	north side of the
<ol> <li>Cracking – Were any of the following types of cracking observed? If yes, document cracks below and on the attached map.</li> </ol>	_X_YesNo
Alligator Cracks? (Resemble chicken wire or alligator skin and are caused by repeated traffic loading). If yes, how many? Alligator cracking in multiple areas, mostly on the north side of the work shop and lunchroom buildings in high traffic area. See attached map.	_XYesNo
<b>Shrinkage Cracks?</b> (Caused by temperature variations that can expand and contract pavement, leading to stress and cracking). If yes, how many? Discuss the location and characteristics of features identified:	Yes _XNo
Reflective Cracks or Opening Along Joints? (Occurs when the pavement overlay was done in unsecured conditions, leading to openings of joints, which can allow water to get to the underlying aggregate and cause pavement damage). Possible reflective cracks – shorter limited and one longer linear crack on north side of shop along truck route. Multiple areas of asphalt patches. Crack spacing and joints along asphalt patch edges did not appear to have lateral expansion.	_XYesNo

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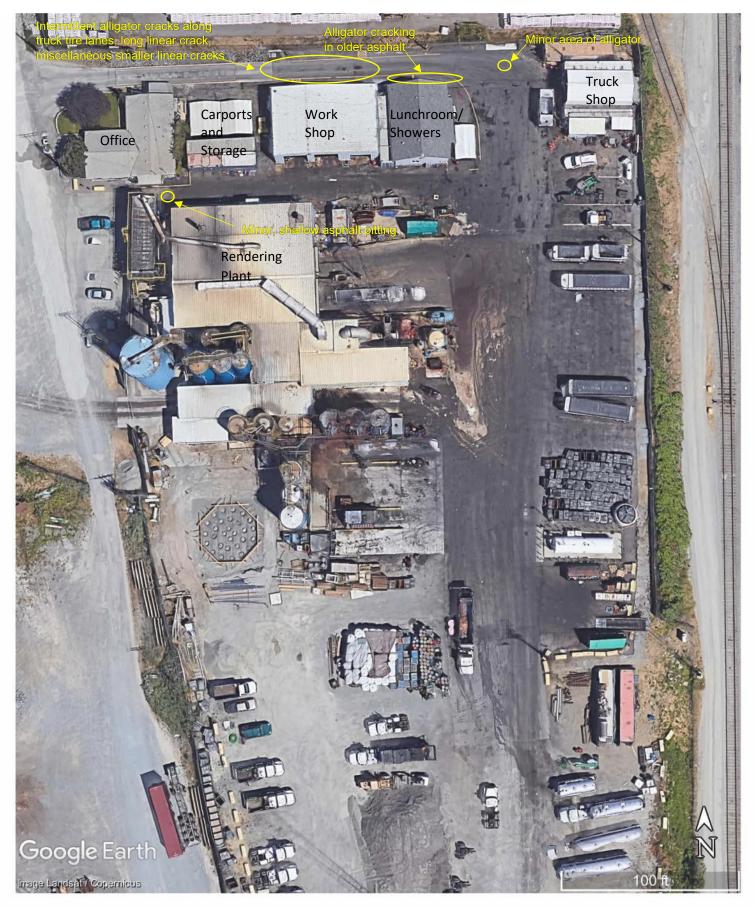
Edge Cracks? (Occur due to poor shoulder support, frost action, or inadequate drainage. Usually begin	
as hairline cracks that can be seal coated.) Minor along edge or alligator cracking near asphalt edge near well MW-2.	_X_YesNo
Cracks within Wheel Paths?	X_YesNo
North side of work shop and lunchroom buildings along main truck route in and out of facility.	
Cracks from Swell?	Yes _XNo
Edge Cracks/Failure?	YesNo
<b>Crack Seals Present?</b> Identify location of crack sealant areas and describe their condition (good, worn, lifting, cracked, etc.).	X_YesNo
Long linear crack adjacent to truck route on north side of work shop appeared to have been sealed at one time due to gray discoloration present along the crack. Facility manager said traditional asphalt sealant has been used in the past but peals up when power washed with hot water.	
How many areas of the above types of cracking were identified? Two primary areas along truck route north of work shop and lunchroom buildings, and one minor area of alligator cracking near truck shop at northeast corner of truck route.	# of Areas3
List the location(s) of the cracks identified and describe the condition and pattern observed (hairline, linear, circular, etc.). Locate the crack areas on the map. See map. Cracks observed appeared to be linear and alligator cracking. Multiple locations of asphalt	
joints along asphalt patches but appeared in good condition.	
4. Potholes identified?	Yes _XNo
How many potholes were identified? One area with three or four very small, shallow pits in asphalt observed adjacent to the concrete	# of Areas1
<i>between office building and rendering building. The pits were in asphalt – no soil or gravel present.</i> List the location(s) of the potholes identified and describe the condition observed. Locate the potholes	
on the map.	
Adjacent to concrete pad between the office building and rendering plant.	
5. Other Issues?	Yes _XNo
Asphalt lifting? (e.g., due to tree roots or another subsurface feature). If yes, describe and locate on the map.	Yes _XNoYes _XNo
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<ul><li>Asphalt lifting? (e.g., due to tree roots or another subsurface feature). If yes, describe and locate on the map.</li><li>Asphalt gaps? (e.g., significant gaps around features such as drains, bollards, gutters, posts,</li></ul>	Yes _XNo
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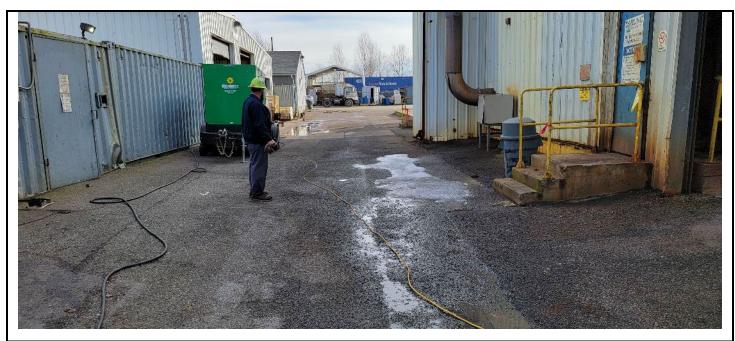
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# FORM DISTRIBUTION Provide a copy of this completed and signed inspection form to the following. A copy of the completed form will be submitted to Ecology as part of the NFA requirement. Darling Ingredients personnel: Tacoma Facility Manager – Charles Berg - <a href="mailto:cberg@darlingii.com">cberg@darlingii.com</a> Martin Guthrie – Environmental Affairs Manager mguthrie@darlingii.com Martin Guthrie – Environmental Affairs - jelrod@darlingii.com Jon Elrod – VP of Environmental Affairs - jelrod@darlingii.com 406-327-5235 direct 406-370-8170 cell Environmental Consultant 370-8170 cell Tetra Tech, Inc.: Natalie Morrow natalie.morrow@tetratech.com 406-543-3045 main office





Area between office and rendering plant.



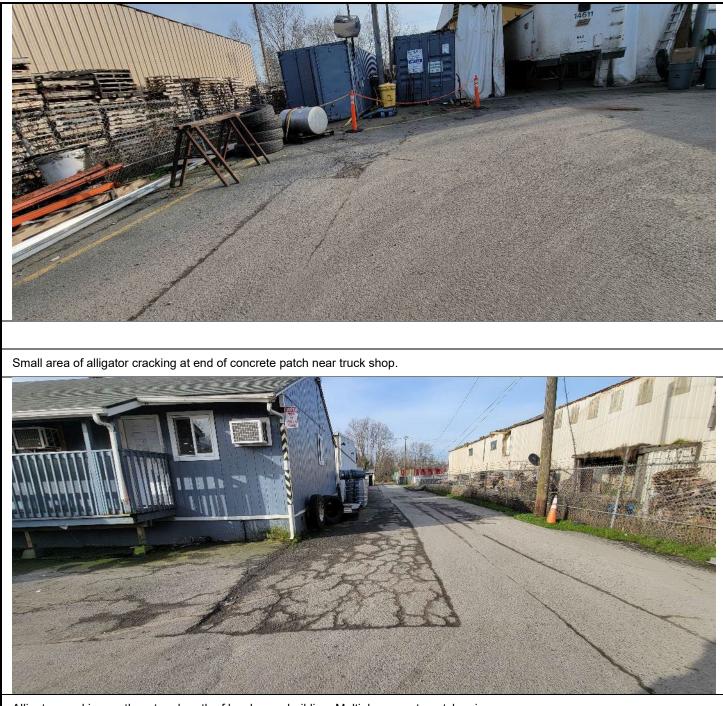
South drain area. Multiple concrete patches in area of drain.



South side of lunchroom building.



Looking southwest from near former MFG-3 well location. Older asphalt in area of lunchroom building and carport.



Alligator cracking northeast and north of lunchroom building. Multiple concrete patches in area.



Alligator cracking on north side of shop along main truck route. Some cracking along north asphalt edge. Additional asphalt patch areas.



More alligator cracking along truck route north of shop.



Linear crack that may have received patch material in the past; located n north side of shop near well MFG-1 (bottom left circular feature in photograph).



Miscellaneous small linear cracks near truck scale and car ports. Drain cut from building to weigh scale ramp in middle left of photograph.