

# **Decision Report**

# **Application for Works Approval**

#### Part V Division 3 of the Environmental Protection Act 1986

Works Approval Number W6776/2023/1

Applicant	Remondis Australia Pty Ltd
ACN	002 429 781
File number	DER2022/000690
Premises	Remondis Cutler Road Recycling Centre 39 Cutler Road JANDAKOT WA 6164
	Legal description - Lot 70 on Deposited Plan 415497 Certificate of Title Volume 2964 Folio 451 As defined by the coordinates in Schedule 1 of the works approval
Date of report	5/12/2023
Decision	Works approval granted

#### STEPHEN CHECKER MANAGER, WASTE INDUSTRIES REGULATORY SERVICES

an officer delegated under section 20 of the Environmental Protection Act 1986 (WA)

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### 1. Decision summary

This decision report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of the premises. As a result of this assessment, works approval W6776/2023/1 has been granted.

# 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this decision report, the Department of Water and Environmental Regulation (the department; DWER) has considered and given due regard to its regulatory framework and relevant policy documents which are available at <a href="https://dwer.wa.gov.au/regulatory-documents">https://dwer.wa.gov.au/regulatory-documents</a>.

### 2.2 Application summary and overview of premises

On 13 December 2022, the applicant submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The application is to construct and undertake time limited operations of a container deposit scheme (CDS) consolidation and plastic film pelletisation processing facility. The premises is located within the City of Cockburn Metropolitan Regional Scheme (MRS).

The Delegated Officer considered that further information was required to validate the application. This was provided to DWER on 14 July 2023.

Following a review of the additional information provided, the Delegated Officer considered that sufficient information had been provided to validate the application and commence with the risk assessment.

Following the completion of the works, Remondis Australia Pty Ltd proposes to apply for a licence for the ongoing operation of the premises.

### 2.2.1 Operational aspects

The following information in relation to the plastic pelletisation and CDS consolidation process has been summarised from the application:

#### **Plastic Film Pelletisation Process Description**

- The clean, source separated soft plastic film will be sourced from commercial and industrial facilities around the Perth Metropolitan area.
- The material will typically be used plastic wrapping material, specifically separated at source for recycling through the proposed pelletisation process.
- The material will be delivered to site in waste collection vehicles and off-loaded at the receival hall within the northern building.
- A baler will be located inside the building and will be a permanent installation. It will provide additional processing capacity and back-up once the pelletisation process is operational.
- The material will be temporarily stored in the receival hall pending processing through a plastic pelletiser unit.
- Depending on the degree of contamination within the input feedstock, there may be a need to manually sort the material to remove unsuitable material.
- Thereafter, the clean, soft plastic film is fed through the plastic pelletiser unit on the

feeding conveyor, then through the dosing unit, cutter compactor, and finally through the bagging system whereby the plastic pellets are bagged into large volume bulka-bags and temporarily stored pending loading on trucks for off-site transport to various plastic manufacturing facilities.



Figure 1: Plastic Pelletizer Unit

#### **CDS Consolidation Process Description**

- Products received will be source from CDS drop-off facilities (refund point) around the Perth Metropolitan area, where the material is collected and separated into aluminium cans, steel drink containers, plastic (PET and HDPE) drink bottles and liquid paper board drink containers.
- The material will be delivered to site in small (7m to 8 m) waste collection vehicles and off-loaded into the southern building.
- The delivery vehicles will drop the collected CDS materials within the southern building, where each material stream will be separately stored in bunkers pending consolidation through mechanical baling into transportable product bales.
- Depending on the degree of cross-contamination within the material being received, there may be some manual sorting prior to the material being baled.
- Bales of product will then be temporally stored within the building until a collection vehicle arrives on site, where the bales will be loaded into sea containers for onwards transport to various processing facilities for recycling.
- In the event of some non-CDS recyclable material extracted during the sorting process, this non-conforming material will be disposed of in a waste bin located within the southern building and removed as and when the bin is full.
- Any putrescible residual waste generated will be placed in a separate bin and removed from site within 48 hours.

### 3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk Assessments* (DWER 2020).

To establish a risk event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

### 3.1 Source-pathways and receptors

#### 3.1.1 Emissions and controls

The potential emissions and actual or likely pathways during premises construction and operation which have been identified and assessed in this decision report are detailed in Table 1 below. Table 1 also details the control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Emission	Sources	Potential pathways	Proposed controls		
Construction					
Dust	Construction of	Air / windborne pathway	No specific dust or noise controls are proposed during construction.		
Noise	infrastructure	Air / windborne pathway	Construction is expected to occur over a two-to-three- month period.		
Operation					
Dust		Air / windborne pathway	All proposed activities will occur on asphalt or concrete hardstands, or within enclosed buildings.		
		Air / windborne pathway	<ul> <li>The processing equipment will be contained within the enclosed buildings.</li> </ul>		
Noise	Operation of CDS consolidation and plastic film pelletisation processing facility, vehicle movement		Buildings are steel framed and fully cladded; hence with substantial ability to muffle any noise emissions.		
			<ul> <li>In order to align with the local government planning approval and associated conditions, operating hours relating to the processing of materials (excluding administration, vehicle movements and maintenance/mechanical repairs) will be restricted to the following:</li> </ul>		
			(a) Monday to Friday: 5am to 7pm		
			(b) Saturday and Sunday: 7am to 3pm		
			The operating hours may be extended to the following for a total of 60 days within a calendar year:		
			(a) Monday to Friday: 5am to 10pm		
			(b) Saturday and Sunday: 7am to 7pm		
			The City will be notified in writing at least 24 hours prior		

**Table 1: Proposed applicant controls** 

Emission	Sources	Potential pathways	Proposed controls
			to an intended extension of hours.
			• There will be no operation of equipment outside of these hours.
			• Should noise be identified as being an issue, then the noise source will be investigated, including the use of third-party specialists, to identify the excessive noise source and to determine the appropriate action to manage the identified noise source.
			• The infrastructure will be located within an enclosed shed that will not allow for the ingress of stormwater.
			• The building floors and complete premises consists of concrete and asphalt hardstand.
Contaminated stormwater (including potential firefighting washwaters)		Overland flow and seepage	<ul> <li>All building entrances will be covered with containment booms and heavy rubber gel mats will be placed over soak wells to prevent ingress of contaminated firewater.</li> <li>REMONDIS will mobilise controlled waste liquid tankers from its fleet and the tanker(s) will suck up the accumulated firefighting water from within the building.</li> <li>If firefighting water flows out of the building and collects in the soak well catchments, the Controlled Waste liquid tanker(s) will be used to suck up the contaminated water and removed from site.</li> <li>After firefighting water has been removed, REMONDIS will immediately remove all the containment booms and clean up the site to remove all fire debris, and once clean, will remove the heavy rubber gel mats from on top of the soak well inlets and the site will return to its normal stormwater management system.</li> <li>Portable bunding will be available to prevent firewater from entering other drains and discharge points.</li> </ul>
		Air / windborne pathway	<ul> <li>Within the building, each material stream will be separately stored in bunkers.</li> </ul>
			• The maximum height of any stockpile, either as loose piled or baled goods, will not exceed 4.8 m.
			Bunkers will be separated by masonry walls or similar.
Fire and smoke emissions			• Bunkers will be located along one of the external walls of the warehouse, with a minimum 10 m clear space in front.
			• A dedicated quarantine area will be present at the rear of the site. If a fire did occur within a stockpile, a front-end loader will be able to push the hazardous material to the quarantine site, away from other potential fuel load within the building.
			• A fire detection and alarm system will be provided within each building.
			• A fire hydrant system will be provided to the site

Emission	Sources	Potential pathways	Proposed controls
			that will meet Guidance Note: GN04 Fire Prevention and Management in a Recycling Facility requirement and Australian Standard AS/NZS 2419.1 Fire hydrant installations system design, installation and commissioning requirements.
			A booster assembly will also be provided.
			Smoke detectors.
			• Fire hose reels will be provided throughout the buildings to meet Australian Standard <i>AS/NZS</i> 2441 installation of fire hose reels requirements.
			• Portable fire extinguishers will be provided throughout the building as appropriate to address any specific high-risk areas.
			• Where electric forklifts are operating within the warehouses, any charging of this equipment will not take place in area where recycling processes are taking place.
			A site-specific Emergency Management Plan will be developed.
			Staff training in emergency management procedures, and emergency exercises, will occur on a regular basis.
			A site-specific DFES Operational Pre-Plan will be developed in conjunction with local DFES officers.
			• Fire safety systems will be subject to regular and ongoing maintenance, in accordance with AS 1851.
			• The premises will always be kept in a clean and tidy state.
			• Any designated smoke areas for staff will be located external to the buildings, away from the recycling processes and any externally stored goods.

#### 3.1.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020), the Delegated Officer has excluded the applicant's employees, visitors, and contractors from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 and Figure 2 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental Siting* (DWER 2020)).

 Table 2: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Rural residential property	Approximately 330 m NE of premises boundary
Residential Subdivision	Approximately 560 m E of premises boundary
Rural Residential property	Approximately 690 m W of premises boundary
Treeby Primary School	Approximately 1,550 m E of premises boundary
Lakelands Senior High School	Approximately 1,520 m NW of premises boundary
Atwell Primary School	Approximately 1,625 m SSE of premises boundary
Environmental receptors	Distance from prescribed activity
Verde Reserve	560 m SE of premises boundary (up hydraulic gradient)
Public drinking water source area	Premises is located within a Priority 3 area of the Jandakot Underground Water Pollution Control Area.
Groundwater	Depth to groundwater encountered at approximately 2.14m – 2.79m (based on information from Perth Groundwater Map).



Figure 2: Distance to sensitive receptors

### 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the delegated officer considers the applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the works approval and licence as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Works approval W6776 that accompanies this decision report authorises construction and time-limited operations. The conditions in the issued works approval, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the premises i.e., category 61A solid waste processing activities. A risk assessment for the operational phase has been included in this decision report, however licence conditions will not be finalised until the department assesses the licence application.

Risk events					Risk rating <sup>1</sup>	Annlinent		Justification for
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	additional regulatory controls
Construction								
	Dust		Human: Residential premises 330 m NE , 560 m E and	Refer to Section 3.1	C = Minor L = Unlikely <b>Medium Risk</b>	Ŷ	Emission to be regulated under the general provisions of the EP Act	N/A
Placement of equipment, including vehicle movements (reversing beepers)	Noise	Air / windborne pathway causing impacts to health and amenity	by 0 m W of premises boundary Treeby Primary School 1550 m E, Lakelands Senior High School 1520 m NW and Atwell Primary School 1625 m SSE of the premises boundary. <b>Ecological:</b> Verde reserve 560 m SE of the premises boundary	Refer to Section 3.1	C = Minor L = Unlikely <b>Medium Risk</b>	Ŷ	Emission to be regulated under the Environmental Protection (Noise) Regulations 1997 (EP Noise Regulations)	N/A
Operation (including time-limited-operations operations)								
Operation of CDS consolidation and plastic film pelletisation processing facility including unloading, loading and storage of material Vehicle movements	Dust	Air / windborne pathway causing impacts to health and amenity	<u>Human:</u> Residential premises 330 m NE and 560 m E	Refer to Section 3.1	C = Moderate L = Unlikely <b>Medium Risk</b>	Ŷ	Condition 5 <u>Condition 4, 8, 9, 13, 15, 16</u> and 17	N/A
	Noise	Air / windborne pathway causing impacts to health and amenity	and 690 m W of premises boundary Treeby Primary School 1550 m E.	Refer to Section 3.1	C = Moderate L = Unlikely <b>Medium Risk</b>	N	Condition 5 <u>Condition 4, 8, 9, 11, 12, 13,</u> <u>14, 15, 16 and 17</u>	The Delegated Officer considers that noise verification monitoring is

#### Table 3: Risk assessment of potential emissions and discharges from the premises during construction and operation

Risk events					Risk rating <sup>1</sup>			Justification for
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood	Applicant controls sufficient?	Conditions <sup>2</sup> of works approval	additional regulatory controls
			Lakelands Senior High School 1520 m NW and Atwell Primary School 1625 m SSE of the premises boundary.					required to demonstrate the noise levels from operations comply with <i>Environmental</i> <i>Protection</i> ( <i>Noise</i> ) <i>Regulations</i> 1997.
	Contaminated stormwater including fire washwaters	Overland flow and seepage	<u>Ecological:</u> Within a Priority 3 area of the Jandakot Underground Water Pollution Control Area, Depth to GW – 2.14 – 2.79mbgl	Refer to Section 3.1	C = Moderate L = Unlikely <b>Medium Risk</b>	Y	Condition 1, 5 <u>Conditions 2, 3, 4, 15, 16 and</u> <u>17</u>	The Delegated Officer considers the applicant's controls to be sufficient to mitigate contaminated stormwater emissions during time limited operations. Conditions 3 and 4 require the submission of an Environmental Compliance Report to verify the infrastructure has been installed in accordance with the relevant requirements.
	Fire and smoke emissions	Air/windborne pathway causing impacts to health and amenity Direct impacts	Human: Residential premises 330 m NE and 560 m E and 690 m W of premises boundary	Refer to Section 3.1	C = Moderate L = Unlikely <b>Medium Risk</b>	Ŷ	Condition 1,5 Condition 6, 7, 8, 9	The Delegated Officer considers the applicant's controls and additional regulatory controls will be sufficient to mitigate the risk

Risk events					Risk rating <sup>1</sup>	Risk rating <sup>1</sup>	Annligent		Justification for
Sources / activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls	C = consequence L = likelihood	controls sufficient?	Conditions <sup>2</sup> of works approval	additional regulatory controls	
			Treeby Primary School 1550 m E, Lakelands Senior High School 1520 m NW and Atwell Primary School 1625 m SSE of the premises boundary.					of fire events.	

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the Guideline: Risk Assessments (DWER 2020).

Note 2: Proposed applicant controls are depicted by standard text. Bold and underline text depicts additional regulatory controls imposed by department.

# 4. Consultation

Table 4 provides a summary of the consultation undertaken by the department.

#### Table 4: Consultation

Consultation method	Comments received	Department response
Application advertised on the department's website on 23 February 2023	None received	N/A
Local Government Authority advised of proposal on 23 February 2023		The delegated officer has determined that it is the applicant's responsibility to ensure all relevant approvals are in place prior to commencing works, in line with the Industry Regulation: Guide to Licensing.
Applicant was provided with draft documents on 28 November 2023	Refer to appendix 1	Refer to appendix 1

### 5. Conclusion

Based on the assessment in this decision report, the delegated officer has determined that a works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

# References

- 1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
- 2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
- 3. DWER 2020, Guideline: Risk Assessments, Perth, Western Australia.

# Appendix 1: Summary of applicant's comments on risk assessment and draft conditions

Condition	Summary of applicant's comment	Department's response
Condition 6 Table 2	Typographical error noted.	Corrected
Row 5, dot point 2	All parts of stockpiled material are not to be within 10 m of fire hydrants.	
Condition 4	Typographical changes requested.	Request adopted
Condition 9, Table 3,	Typographical changes requested.	Request adopted
Row 2, item b	Request that "Premises" be changed to "waste management operational areas".	
Decision Report	Typographical changes	The Decision report has been updated to reflect the changes requested by the Licence Holder.



# **Appendix 2: Application validation summary**

SECTION 1: APPLICATION SUMMARY					
Application type					
Works approval	$\boxtimes$				
		Relevant works approval number:		None	
		Has the works app complied with?	oroval been	<sup>&gt;n</sup> Yes □ No □	
Licence		Has time limited o under the works a demonstrated acc operations?	perations pproval eptable	Yes 🗆 No	□ N/A □
		Environmental Co Report / Critical C Infrastructure Rep	mpliance ontainment ort submitted?	Yes 🗆 No	
		Date Report received:			
Renewal		Current licence number:			
Amendment to works approval		Current works approval number:			
		Current licence number:			
Amendment to licence		Relevant works approval number:		N/A	
Registration		Current works approval number:		None	
Date application received		13/12/2022			
Applicant and Premises details					
Applicant name/s (full legal name/s)		REMONDIS Australia Pty Ltd			
Premises name		REMONDIS Cutler Road Recycling Centre			
Premises location		Lot 70 (No. 39) Cutler Road			
		JANDAKOT WA 6164			
		Legal description			
		Lot 70 on Deposited Plan 415497			
		Certificate of Litle Volume 2964 Folio 451			
Local Government Authority		City of Cockburn			
Application documents					



HPCM file reference number:	DER2022/000690	
Key application documents (additional to application form):	Regional Location Map Local Context Map Prescribed Premises Plan Map Metropolitan Regional Scheme Zoning Map City of Cockburn Town Planning Scheme No. 3 Zoning Map Proposed Northern Building Layout Map Proposed Southern Building Layout Map Proposed Northern and Southern Buildings and Site Layout Map Plastic Film Pelletisation Process Flowchart Plastic Pelletisation Unit Diagram Receptor Map	
Scope of application/assessment		
Summary of proposed activities or changes to existing operations.	Minor alterations to the existing northern and southern industrial buildings on the premises. Installation of a baler and pelletisation unit. Operation of the baler and pelletisation unit Construction of a fuel storage tank and bowser Construction of a weighbridge	
Category number/s (activities that cause the premises to become prescribed premises)		

#### Table 1: Prescribed premises categories

Prescribed premises category and description	[Proposed] [Assessed] production or design capacity	Proposed changes to the production or design capacity (amendments only)	
Category 61A: Solid waste facility: premises on which solid wasted produced on other premises is stored, reprocessed, treated, or discharged onto land.	Proposed – Plastic film pelletisation 5000 tonnes per year	NA	
Category 61A: Solid waste facility: premises on which solid wasted produced on other premises is stored, reprocessed, treated, or discharged onto land.	Proposed – Container Deposit Scheme (CDS) Consolidation 10,000 tonnes per year	NA	
Legislative context and other approvals			
Has the applicant referred, or do the intend to refer, their proposal to the EPA under Part IV of the EP Act a significant proposal?	ney e Yes □ No ⊠ s a	Referral decision No: Managed under Part V □ Assessed under Part IV □	



### Government of Western Australia Department of Water and Environmental Regulation

Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes 🗆 No 🖂	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes 🗆 No 🖂	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes □ No ⊠	Certificate of title General lease Mining lease / tenement Expiry: Other evidence Expiry:
Has the applicant obtained all relevant planning approvals?	Yes 🗆 No 🛛 N/A 🗆	Approval: Expiry date: If N/A explain why?
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes 🗆 No 🖂	CPS No: No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes 🗆 No 🖂	Application reference No: N/A Licence/permit No: N/A
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes 🗆 No 🖂	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes □ No ⊠	Name:JandakotUndergroundWaterPollution Control AreaType:Priority 3 Drinking WaterSource Area – the northernsection of the premises is withinthe P3 area and is zoned asindustrial so it is compatible withconditions (1, 26, 37, 38) (fromwater quality protection note 25).Has Regulatory Services (Water)been consulted?YesNoN/A□Regional office:Swan Avon /Mid-WestGascoyne / KwinanaPeel / North West / South West /Goldfields / South Coast



Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes ⊠ No □	<ul> <li>Name: Jandakot Underground Water Pollution Control Area</li> <li>Priority: P3 – the northern section of the premises is within the P3 area and is zoned as industrial so it is compatible with conditions (1, 26, 37, 38) (from water quality protection note 25).</li> <li>Are the proposed activities/ landuse compatible with the PDWSA (refer to <u>WQPN 25</u>)?</li> <li>Yes ⊠ No □ N/A □</li> <li>Compatible with conditions.</li> <li>Note: If the proposed activity is not listed as a compatible land use with the PDWSA please consult with the relevant regional office (Regulatory Services - Water) and Water Source Protection (Science and Planning)</li> </ul>	
Is the Premises subject to any other Acts or subsidiary regulations (e.g. Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State	Yes 🛛 No 🗆	If Yes include details here. Dangerous Goods Safety Act 2004,	
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes □ No ⊠	If Yes include details of which EPP(s) here.	
Is the Premises subject to any EPP requirements?	Yes □ No ⊠	If Yes, include details here, e.g. Site is subject to SO <sub>2</sub> requirements of Kwinana EPP.	
Is the Premises a known or suspected contaminated site under the Contaminated Sites Act 2003?	Yes ⊠ No ⊠	Classification: not contaminated – unrestricted use (NC–UU)	
Direct interest stakeholders			
City of Cockburn		Letter to be sent Yes $\boxtimes$ No $\Box$	



SECTION 2: RECEPTORS	
The nearest town of Cockburn	Is approximately 1.85 km southwest of the Southern building.
Human receptors	Distance from activity / prescribed premises
Rural Residential	Approximately 330 m NE of premises boundary
Rural Residential	Approximately 690 m W of southern building
Residential Subdivision	Approximately 560 m E of premises boundary
Residential Subdivision	Approximately 720 m SSE of southern building
High-Rise Residential Properties	Approximately 690 m SW of southern building, beyond Kwinana Freeway
Treeby Primary School	Approximately 1.5 km E of premises boundary
Lakelands Senior High School	Approximately 1.6 km NW of northern building
Atwell Primary School	Approximately 1.6 km SSE of southern building
Environmental receptors	Distance from activity / prescribed premises
Verde Reserve	560 m SE of premises boundary

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