

---

# Processes for licensing and work plans

---

Commissioned for the  
Earth Resources  
Regulation – Continuous  
Improvement Project

---

Rivers Economic Consulting

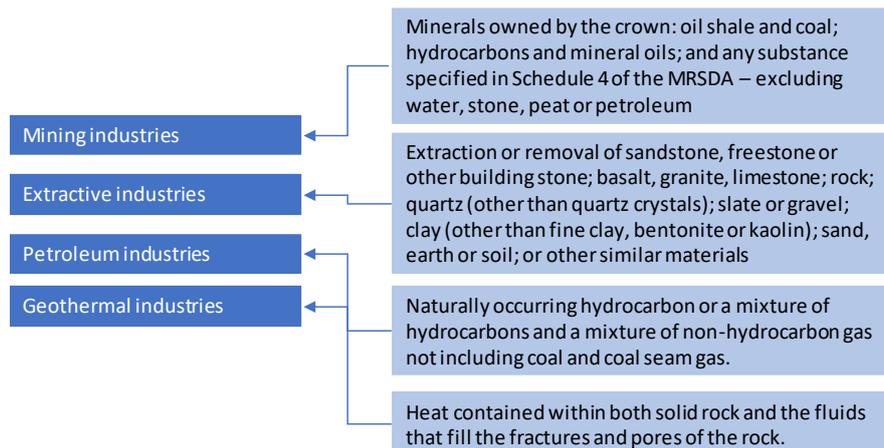
---

## The need for and processes around licencing and work plans

### What are earth resources?

The earth resources sector in Victoria includes mining, extractive, petroleum<sup>1</sup> and geothermal industries<sup>2</sup>, as summarised in Chart 1 below:

**Chart 1: Earth resources sector in Victoria**



### Why are earth resource activities important and what are the risks?

The importance of the earth resources sector for Victoria is highlighted in the following section of the second reading speech for the Mineral Resources (Sustainable Development) Amendment Bill 2013<sup>3</sup>:

*“The earth resources sector...is a valuable part of the Victorian economy and provides an important source of economic growth and stability, particularly in regional Victoria.”*

Moreover, R&D and commercialisation of State-owned earth resources through exploration and mining activities may give rise to other benefits to the Victorian community more broadly.<sup>4</sup> For example, geoscience information collected through mineral exploration activities may provide broader public benefits including identifying adequate supplies of clean water, civil engineering projects, land use planning, environmental impact assessment, public health and safety, and national sovereignty.<sup>5</sup>

However, earth resources industries have the *potential* to impose negative ‘third-party effects’ in relation to *public safety, community disturbance* and the *environment*, on those who are not directly involved in these industries<sup>6</sup>. These potential negative effects create an additional rationale for the ongoing regulation of the industries.<sup>7</sup> These potential impacts are highlighted in more detail in Chart 2.

**Chart 2: Negative third-party effects of earth resources industries<sup>8</sup>**



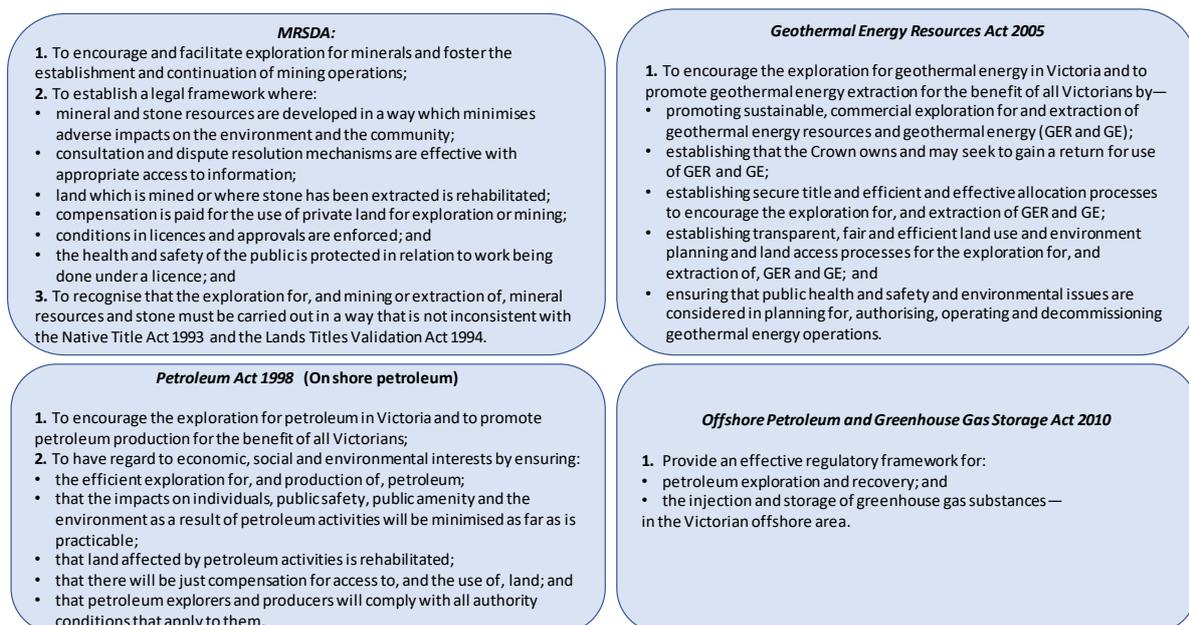
Indeed, it has been noted by PwC<sup>9</sup> that:

*“the public...put their trust in regulators to keep the sector accountable. Regulatory scrutiny continues to rise and becomes standardized globally. Only policy savvy operators will prosper, those who recognise the need for sustainable development and who understand the need for mutual outcomes.”*

What are the main legislative Acts key objectives around the earth resources sector?

In Victoria, minerals and extractives are regulated under the *Mineral Resources (Sustainable Development) Act 1990* (MRSDA), whilst petroleum plus geothermal industries are regulated under the *Petroleum Act 1998 (on shore)* and the *Offshore<sup>10</sup> Petroleum and Greenhouse Gas Storage Act 2010*, and *Geothermal Energy Resources Act 2005*. Considering the need to promote the earth resources sector in a way that is compatible with the economic, social and environmental goals of the state – the objectives of these Acts can be summarised as shown in Chart 3.

**Chart 3: Main Acts for the earth resources sector and summary of objectives**



The primary instruments by which the objectives of the MRSDA are fulfilled are mining licences, work plans and work authorities.<sup>11</sup>

## What does the move to a risk-based approach mean for the mineral and extractive industries?

Both Victoria's Economic Development and Infrastructure Committee (EDIC) 2012 inquiry into greenfields mineral exploration and project development and the 2014 Hazelwood mine-fire inquiry recommended a move to a *risk-based* work plan model. The key risk-based provisions around work plans in the MRSDA were introduced in early 2014. In December 2015, the *Mineral Resources (Sustainable Development) (Mineral Industries)* and *Mineral Resources (Sustainable Development) (Extractive Industries)* regulations<sup>12</sup> moved from a very prescriptive list of inputs to an *outcomes focused approach* in terms of the risk management objectives the regulator is trying to achieve.

The focus of the risk-based model is now on assessments which bring together a consideration of:

- any serious consequences of mine or quarry site operations in the context of location;
- risk receptors (e.g. housing, roads, other community assets); and
- measures to mitigate risk.

– in a revised work plan approach.

Moreover, in the past whenever something changed at the mine or quarry site (e.g. a maintenance bay was moved or the colour of a roof was changed) then this would have triggered the need for a work plan variation. From December 2015, work plan variations are triggered when there is a new significant risk or change to operations. The Secretary has the ability to direct a work plan variation where circumstances deem that there is an 'unacceptable risk'.

## What is the purpose of licences and conditions?

Under the MRSDA, a mining tenement refers to *a claim, lease, mining, exploration, retention or prospecting licence*.<sup>13</sup> Operators holding a tenement (including a licence) issued under the MRSDA must comply with a range of legislative requirements relating to: operating conditions; work plans; expenditure requirements; statutory returns; rent; royalty; rehabilitation bond; and codes of practice.<sup>14</sup> The **purpose** of 'granting' mineral resource licences under the MRSDA include providing for:

1. a means through which ownership of minerals is transferred from the State when removed<sup>15</sup>;
2. certainty for the miner as to its rights over a deposit<sup>16</sup>; and
3. maintaining standards<sup>17</sup> which reduce the risk of activities for public safety, the environment and community disturbance as discussed earlier.

The 'grant' of specific types of mineral licences (see Table 1), allows for mineral resource activities including: prospecting, exploration, mining or activities incidental to mining; or to retain the rights to a mineral resource that might become economically viable to mine in future. In addition to mineral resources licences, the holder of a *miner's right* and *tourist fossicking authority* (as provided by the

MRSDA) is also allowed to search for and keep any minerals found, subject to the consent of the land owner and the licensee, where one exists.<sup>18</sup>

**Table 1: Types of mineral licences and mineral resource activities<sup>19</sup>**

Type of licence	Term	Renewal	Prospecting (5 hectares or less)	Exploration	Mining or activities incidental to mining	Retain the rights to a mineral resource
<b>Exploration licence</b>	5 years	5 years		✓		
<b>Prospecting licence</b>	Up to 5 years	No renewal	✓	✓	✓	
<b>Retention licence</b>	Up to 10 years	2 renewals		✓		✓
<b>Mining licence</b>	Up to 20 years	Case-by-case consideration		✓*	✓	

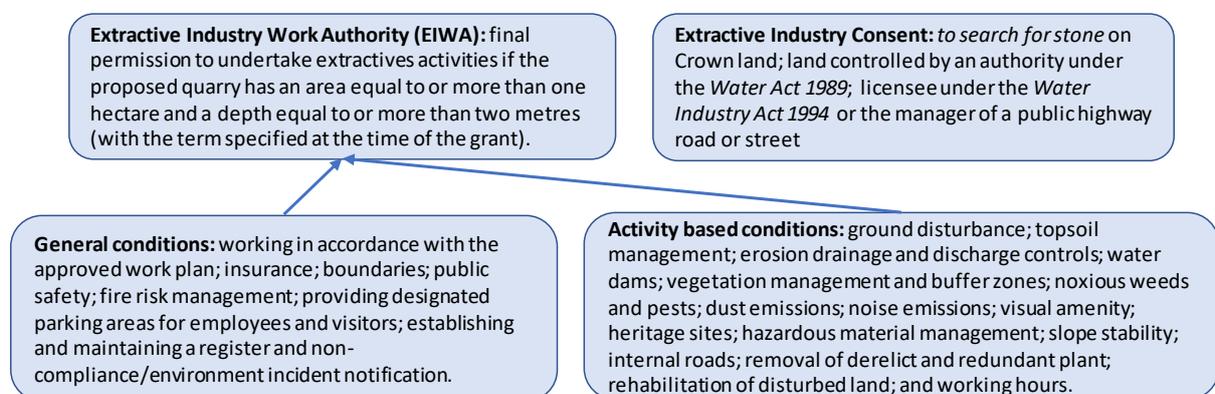
\*The Minister may authorise the mining licence holder with the ability to undertake *exploration only* for a specified period of 2 years.

Mineral licences are *subject to conditions* imposed by the Minister, including but not limited to the rehabilitation of the land, protection of the environment, protection of groundwater, the work to be undertaken, expenditure by the licensee, reporting requirements, payment of certain fees, bonds and levies and royalties, access requirements and the protection of community facilities.<sup>20</sup> Licence conditions indicate ‘what’ the licence holder *must do* to maintain compliance and relate closely to the need to reduce the risk of harm and damage to the community and environment.

### What is the purpose of industry consents and extractive industry work authorities (EIWAs) and conditions?

With regards to extractives activities, proponents need to obtain (are ‘granted’) either an *extractive industry consent* or an *extractive industry work authority (EIWA)*, providing ‘final permission’ to undertake activities, as shown in Chart 4. As with licences, EIWAs are subject to a set of *general and activity based conditions*<sup>21</sup> which designate ‘what’ the authority holder must comply with for the purpose of reducing the potential risks arising from extractive industry activities, as summarised in Chart 2.

**Chart 4: Main tenements and conditions for the extractive industries**



## What are the main steps in the mineral resource application process?

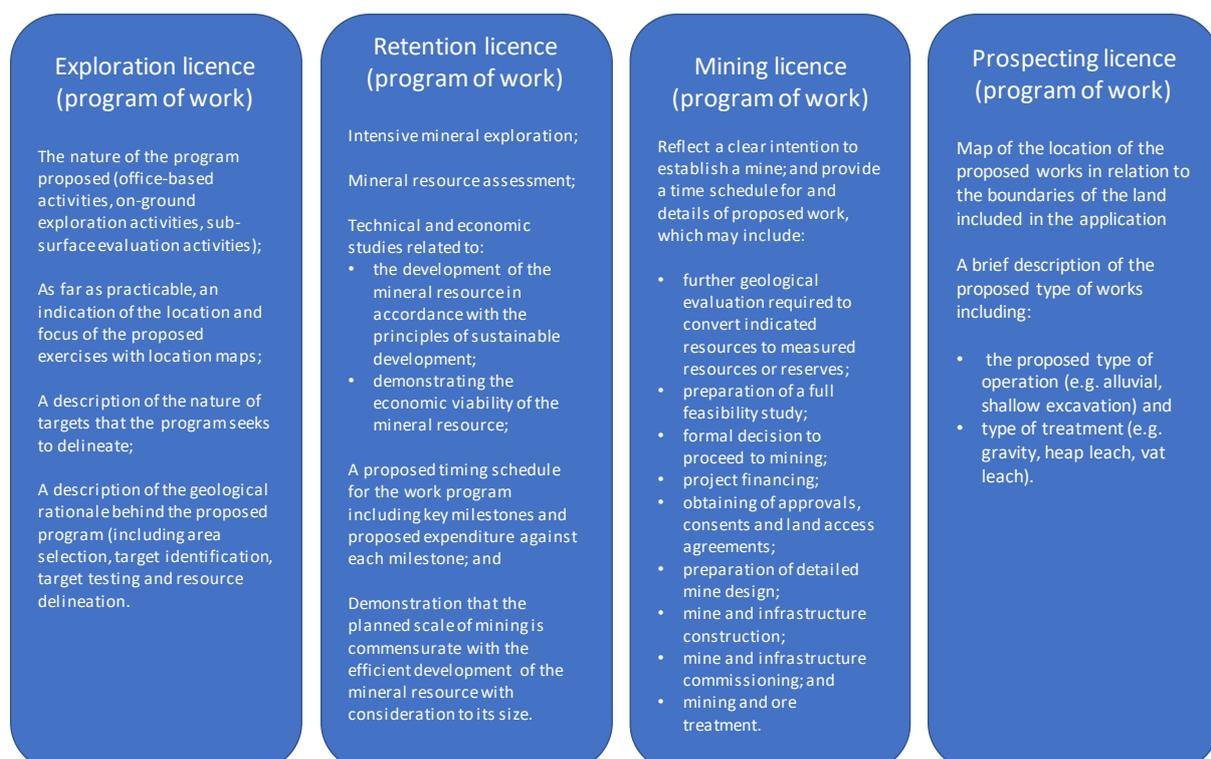
As shown in Chart 5, before a proponent can commence most mineral resource activities they must go through two main steps including firstly, obtaining a *licence (the grant process)* and secondly, obtaining approval for a lodged work plan (*the approval process*) and other requirements met (see Chart 5). The approved work plan gives the licence holder '*final permission*' to undertake mineral exploration or mining work. The work plan needs to demonstrate 'how and where' the activity will take place and how it will address various concerns and risks around public safety, community disturbance and the environment.

**Chart 5: Mineral resource application process**



As part of obtaining a licence, a *program of work* as required by the *Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013*<sup>22</sup> for a mineral licence and will depend on the type of licence sought and summarised in Chart 6.

**Chart 6: 'Program of work' information required by licence application type**

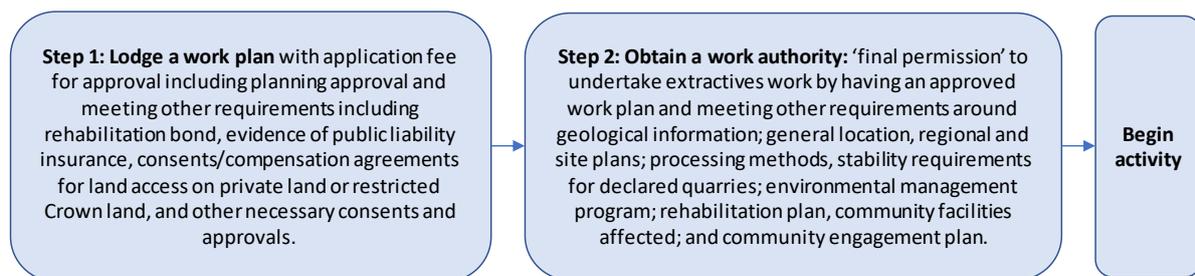


Applications for exploration and prospecting licences are granted or refused within 90 days from the date of acceptance of the application and retention and mining licences are granted or refused within 120 days from the date of acceptance of the application (subject to all required information be supplied).<sup>23</sup>

## What are the main steps in the extractive resource application process?

A proponent wishing to engage in extraction activities must lodge a work plan (if it is determined by ERR that one is needed) along with a fee<sup>24</sup> and have that work plan approved (Step 1 **the approval process**), and possess the appropriate extractive industry work authority (EIWA)<sup>25</sup> (Step 2 **the grant process**) before they can commence activities, as shown in Chart 7. The work authority gives the holder ‘final permission’ to undertake extractives work. The information requirements for extractive industry work plans (EIWPs) and extractive industry authorities (EIWAs) are stipulated under the MRSDA and *Mineral Resources (Sustainable Development) (Extractive Industries) Regulations 2013*.

**Chart 7: The extractive resource application process**



Work plans are not required (i.e. Step 1 can be avoided) where the extractives activity is to be carried out on land that has an area of less than five hectares and a depth of less than five metres; and does not require blasting or the clearing of native vegetation<sup>26</sup>. If a work plan is not required, the site must comply with the *Code of Practice for Small Quarries*<sup>27</sup> which sets out the minimum mandatory requirements that work authority holders must meet and provides practical guidance about how small quarries should meet regulatory requirements and environmental standards. The detailed processes involved in granting a licence or extractive industry work authority, renewals, and variations are illustrated in Charts A1.1 to A1.4 in Appendix 1.

Mineral licensees and EIWA applicants must also lodge a rehabilitation bond/bank guarantee prior to work commencing to ensure that rehabilitation is undertaken if the event that the licence/authorisation holder does not meet their rehabilitation obligations<sup>28</sup>.

## What is the purpose of work plans?

Work authorities for mineral licences and EIWAs require proponents to lodge a work plan for approval. As discussed earlier, the work plan represents an *outcomes focused approach* in terms of the risk management objectives the regulator is trying to achieve. The work plan identifies ‘how’ proponents will undertake their mineral resource or extractive resource activities. With respect to mining or extractive industries, work plans are either classified on the basis of being *Low Impact*<sup>29</sup>; *Code of Practice*<sup>30</sup>; *Statutory*; *Non-statutory*; or *Environmental Effects Statement (EES)*.

Information required in work plans is specified by *Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013* under schedules 15 to 18 and are summarised in Chart 8. Where the work program submitted as part of the prospecting licence application satisfies all the requirements of Schedule 16 and the proposed work is not on agricultural land; the proponent can have the *work program approved as the work plan* under section 40(2AA) of the MRSDA.<sup>31</sup> Extractive industry work plans require the following information including geological information; general location, regional and site plans; processing methods, stability requirements for declared quarries; environmental management program; rehabilitation plan, community facilities affected; and community engagement plan.

The detailed processes involved in approving work plans and work plan variations are illustrated in Charts A2.1 to A2.5 in Appendix 2.

**Chart 8: ‘Work plan’ information required by licence type held**

Exploration licence (Work plan)	Retention licence (Work plan)	Mining licence (Work plan)	Prospecting licence (Work plan)
<p>A description of the proposed works, including details of the potential environmental impacts and the measures proposed for their control or mitigation.</p> <p>If specific sites have been identified for drilling or other earthworks, a map showing the general location of those works, including any details regarding the cutting of tracks or roads.</p> <p>A description of the proposed rehabilitation of any areas subject to surface disturbance including revegetation proposals and where relevant, proposals for the removal of plant and equipment.</p> <p>A description of the proposed arrangements for consultation with landowners, Crown Land managers and local councils.</p> <p>Information about the proposed methods of monitoring, auditing and reporting impacts on the environment.</p>	<p>A description of the proposed works, including details of the potential environmental impacts and the measures proposed for their control or mitigation.</p> <p>If specific sites have been identified for drilling or other earthworks, a map showing the general location of those works, including any details regarding the cutting of tracks or roads.</p> <p>A description of the proposed rehabilitation of any areas subject to surface disturbance including revegetation proposals and where relevant, proposals for the removal of plant and equipment.</p> <p>A description of the proposed arrangements for consultation with landowners, Crown Land managers and local councils.</p> <p>Information about the proposed methods of monitoring, auditing and reporting impacts on the environment.</p>	<p>A general description of geological information including, if available, estimates of ore resources and reserves.</p> <p>A general location plan at scale of 1:100 000 or 1:50 000. A regional plan at scale of 1:25 000. A site plan at 1:1000, 1:2500 or other appropriate scale.</p> <p>A description of the metallurgical and mineral recovery methods to be used.</p> <p>A rehabilitation plan.</p> <p>An environmental management plan.</p> <p>A description of any significant community facilities that may be affected by the proposed works.</p> <p>A community engagement plan.</p>	<p>A general description of any test work undertaken in the licence area.</p> <p>A general location plan at scale of 1:100 000, 1:50 000 or 1:25 000. If not already provided in the general location plan, a regional plan at scale of 1:25 000.</p> <p>A plan of the licence area at an appropriate scale.</p> <p>A description of proposed mineral recovery methods.</p> <p>A description of rehabilitation proposals.</p> <p>A description of any significant community facilities that may be affected by the proposed works.</p> <p>A community engagement plan.</p>

### When and why do work plans need statutory endorsement?

Part of the work plan approval process for mining and extractive activities involves obtaining a planning permit under the *Planning and Environment Act 1987* from local council unless an Environment Effects Statement (EES) is deemed necessary under the *Environment Effects Act 1978* as determined by the Minister where:

- there is a likelihood of regionally or state significant adverse effects on the environment;

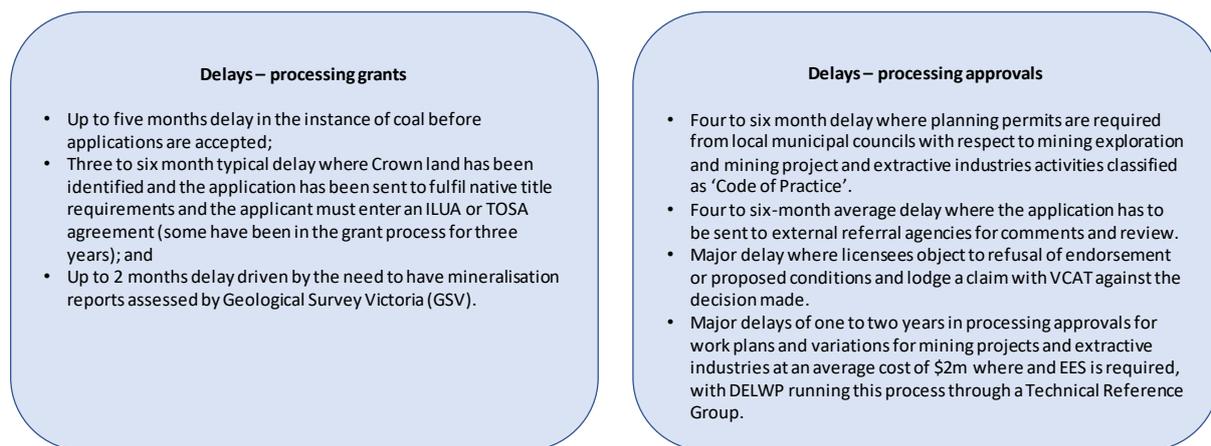
- there is a need for integrated assessment of potential environmental effects (including economic and social effects) of a project and relevant alternatives; and
- normal statutory processes would not provide a sufficiently comprehensive, integrated and transparent assessment<sup>32</sup>.

Where a planning permit is required and in the case of mining/prospecting or extractive work plans/work plan variations – *statutory endorsement* of work plans is required<sup>33</sup> and applications for statutory endorsement<sup>34</sup> must be responded to by ERR within one month. The statutory endorsement is intended to *give weight* to the administrative process of endorsing work plans for subsequent planning permit applications **to remove duplication and delays** associated with duplicate referrals to agencies during the planning permit application process.<sup>35</sup>

Where are the potential delays to processing grants and approvals for mineral and extractive resources with regards to external agencies?

Major delays in processing licences and work authority grants<sup>36</sup> and approvals<sup>37</sup> where sent to referral agencies **external to DEDJTR** are shown in Chart 9.

**Chart 9: Delays to processing of grants and approvals by external referral agencies**



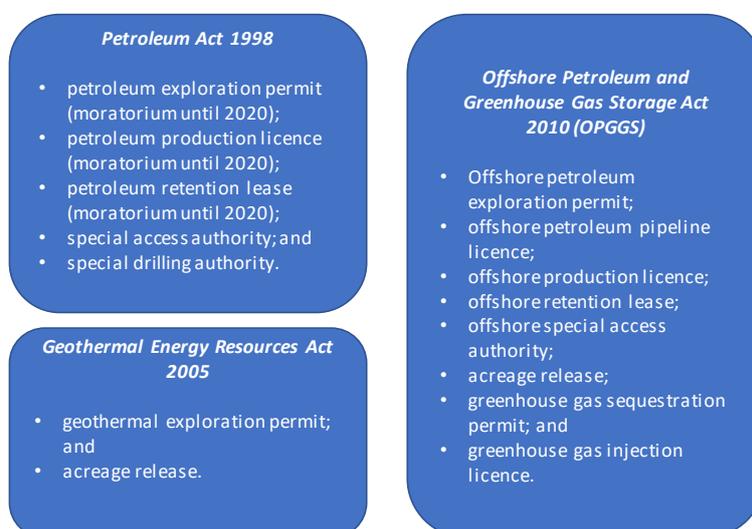
What are/is the purpose of petroleum and geothermal energy tenements granted in Victoria?

The ‘grant’ of specific types of petroleum and geothermal licences, leases, permits and authorities, allows the holder to undertake a specific set of petroleum resource and geothermal energy resource activities under their respective Acts, as summarised in Chart 10. Victoria has recently banned all onshore unconventional gas exploration. The *Resources Amendment Legislation (Fracking Ban) Act 2017* which came into operation on 16 March 2017, amends the:

- MRSDA by preventing the exploration for and mining of coal seam gas; and
- the *Petroleum Act 1998* by imposing a moratorium on any petroleum exploration and petroleum production in the onshore areas of Victoria until 30 June 2020, preventing the Minister from granting an exploration permit, a retention lease or a production licence during the moratorium period.<sup>38</sup>

However, DEDJTR continues to assess and consider approving applications for the suspension of conditions and associated extension of petroleum and geothermal authorities (i.e. variations)<sup>39</sup>. These tenements allow the regulator to meet the objectives of the relevant Acts as summarised in Chart 2 earlier.

**Chart 10: Petroleum and geothermal energy resource tenements and respective Acts**



The rights/allowable activities provided by the various tenements are illustrated in Table 2.

**Table 2: Main petroleum and geothermal energy resource tenements<sup>40</sup>**

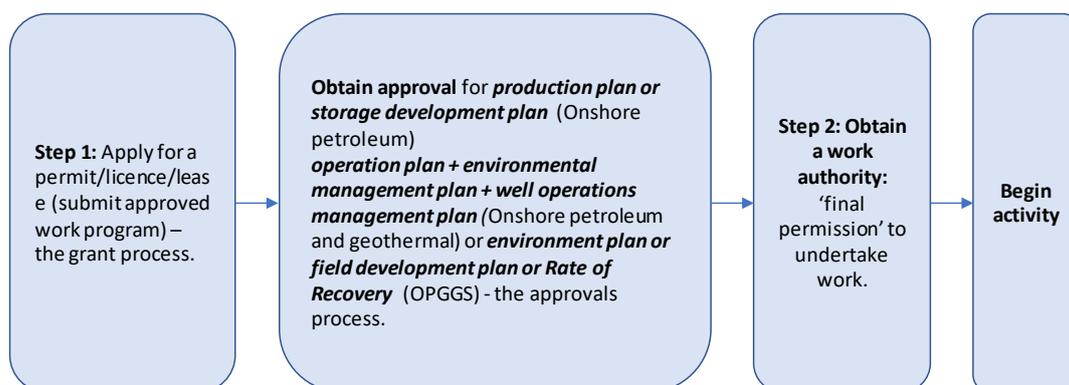
Type of tenement	Term	Rights given
<b>Onshore petroleum exploration permit</b> (moratorium until 2020)	5 years with 5-year renewal.	Explore for petroleum resources within the permit area.
<b>Onshore petroleum retention lease<sup>41</sup></b> (moratorium until 2020)	up to 15 years and cannot be renewed.	Retain exclusive rights to a petroleum discovery, if the petroleum resource is not currently commercially viable to develop, but might become viable within 15 years.
<b>Onshore petroleum production licence<sup>42</sup></b> (moratorium until 2020)	for the duration that the petroleum is produced from the ground.	Produce and explore for petroleum within the licence area.
<b>Onshore petroleum special drilling authorisation<sup>43</sup></b>	Unspecified	Drill a well within the drilling authority area but not exclusive rights to any petroleum found.
<b>Special Access authority</b>	Up to 1 year with 1-year extension.	Carry out petroleum exploration but does not include the right to drill a well, or rights to petroleum in the area.
<b>Offshore petroleum exploration permit</b>	6 years with 5-year renewals provided a reduction in area in accordance to halving rules.	Explore for petroleum resources within the permit area.
<b>Offshore petroleum retention lease</b>	Up to 5 years and can be renewed.	Retain exclusive rights if they discover petroleum if the petroleum resource is not currently commercially viable to develop, but might become viable within 15 years.
<b>Offshore petroleum production licence<sup>44</sup></b>	For the duration that the petroleum is produced.	Produce and explore for petroleum within the licence area.
<b>Offshore petroleum pipeline licence</b>	Granted indefinitely.	Construct a pipeline in the offshore area specified in the licence used to transport petroleum.
<b>Greenhouse gas sequestration exploration permit</b>	5 years with 5-year renewal.	Explore for greenhouse gas storage formations within the designated permit area.
<b>Greenhouse gas injection licence</b>	for the duration that greenhouse gas is injected into	Inject and permanently store greenhouse gas substances within the licence area specified.

Type of tenement	Term	Rights given
	the storage formation.	
<b>Geothermal exploration permit</b>	Up to 15 years and can be renewed once for up to 5 years.	Explore for geothermal energy within the permit area.

With regards to offshore petroleum resources the National Offshore Petroleum Titles Administrator (NOPTA) administers petroleum titles and resource management for offshore Commonwealth waters under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*.<sup>45</sup> DEDJTR administers titles, well integrity and environment within state waters located within 35.56km of the Victorian coast under the Victorian *Offshore Petroleum and Greenhouse Gas Storage Act 2010*.<sup>46</sup> The detailed processing steps involved in NOPTA referrals is summarised in Chart A3.3 in Appendix 3.

### What are the main steps in the petroleum and geothermal energy resources application process?

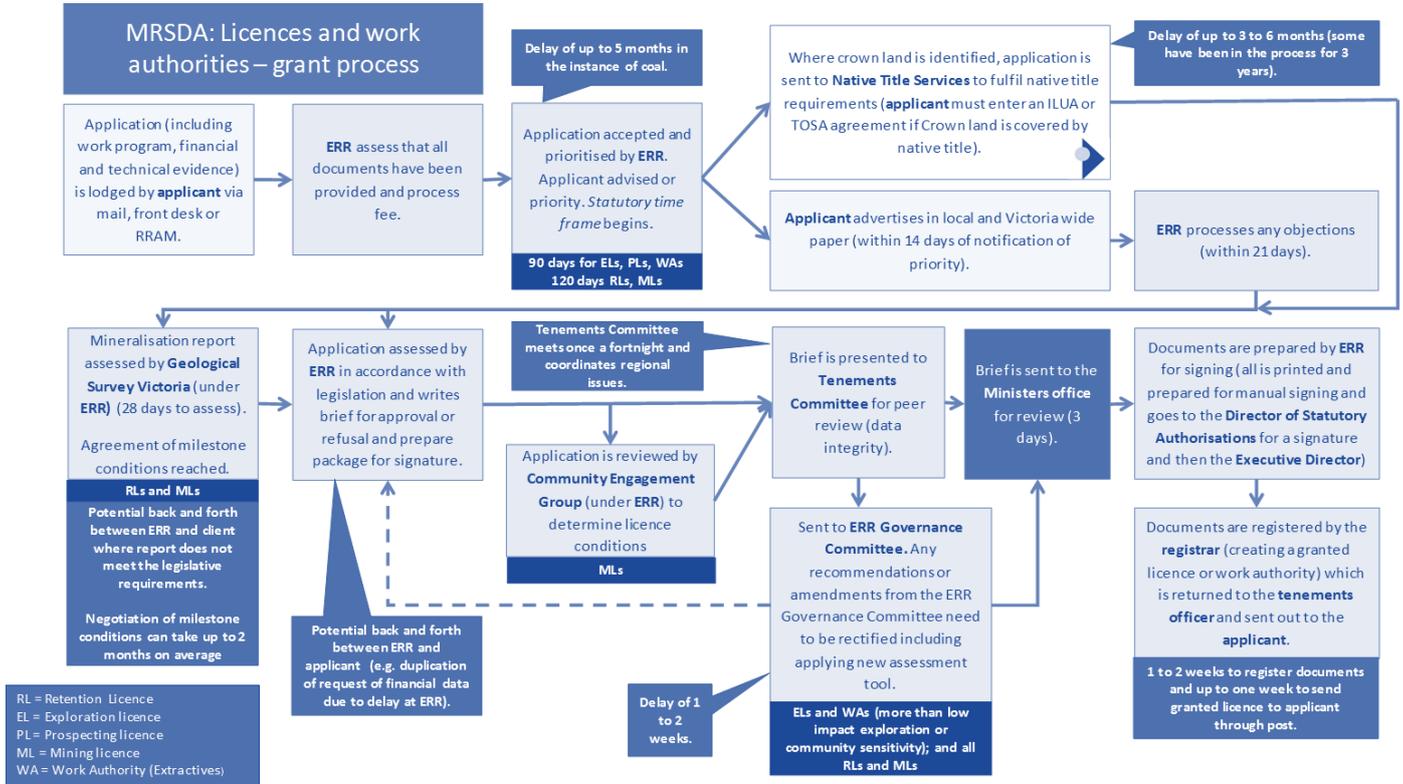
The application process for petroleum and geothermal energy resources (similar to mining tenements) involves a two-step process including the **grant process** (with the submission of approved program of work) and the work authority process (which requires approval of relevant production; storage development<sup>47</sup>; operation + environmental management + well operations<sup>48</sup>; environment; field development or rate of recovery plans<sup>49</sup> - **the approval process**) as shown in Chart 11. These plans represent the assessment of environment, resource and safety management issues.



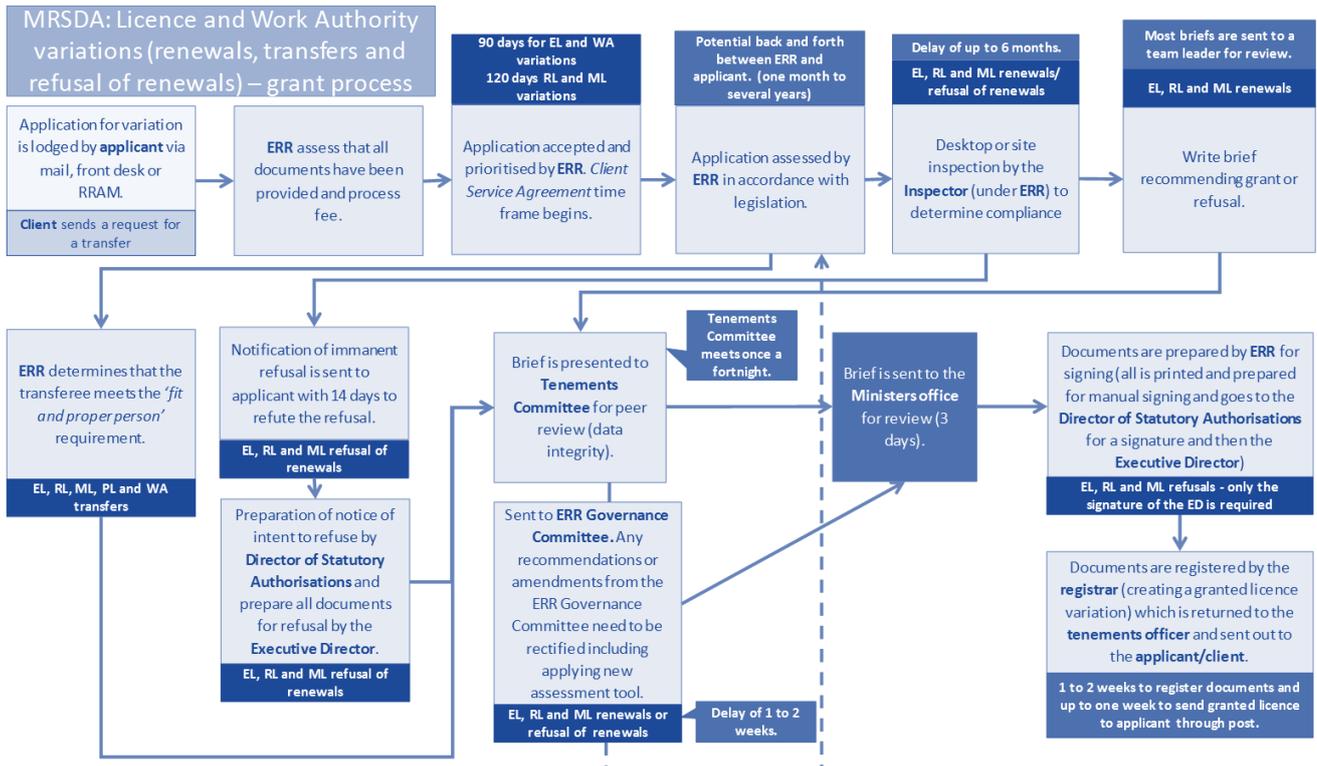
The detailed processes involved in granting tenements; the approval of various plans and plan variations are illustrated in Charts A3.1 to A3.4 in Appendix 3.

# Appendix 1: Licences and work authorities – grant processes

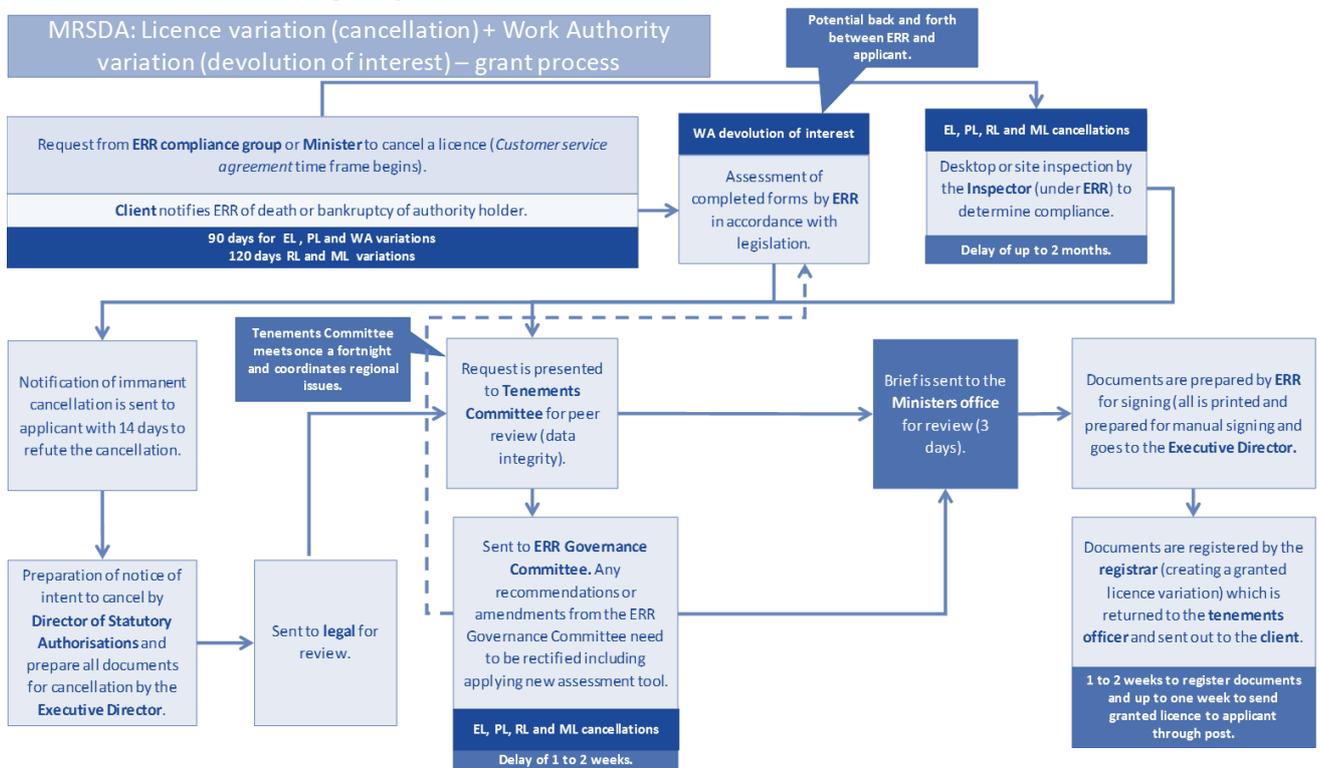
**Chart A1.1: MRSDA licences and extractive industry work authorities – grant process**



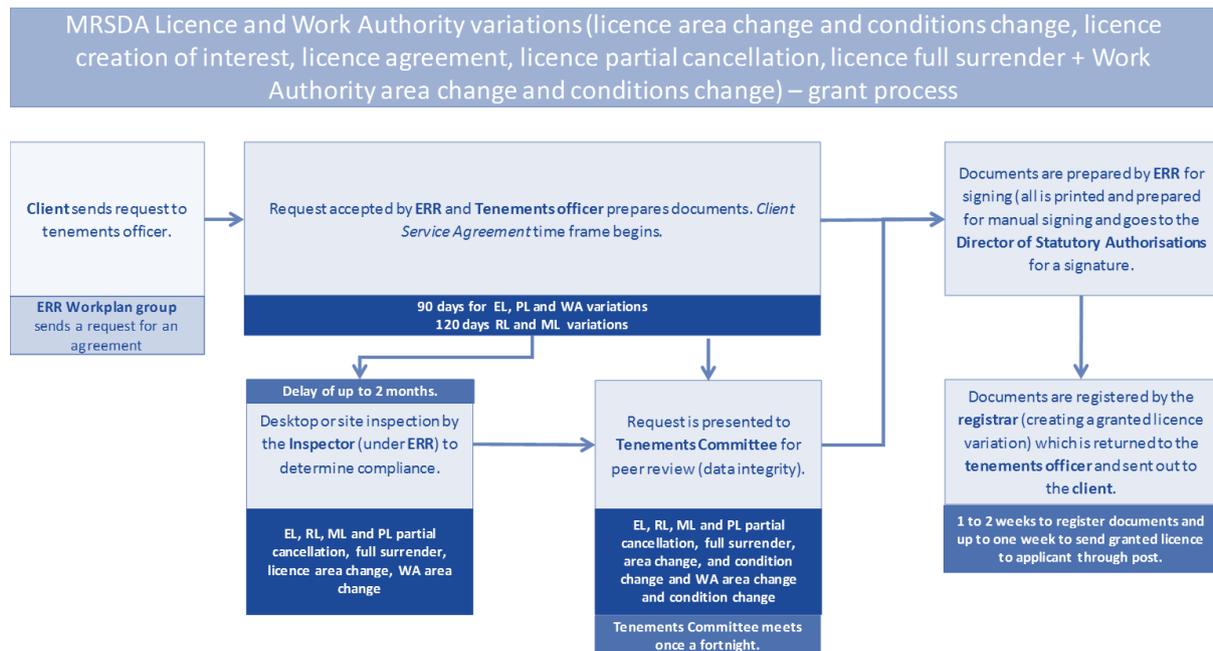
**Chart A1.2: MRSDA licence and extractive industry work authority variations (renewals, transfers and refusal of renewals) – grant process**



**Chart A1.3: MRSDA Licence variation (cancellation) and extractive industry work authority variations (devolution of interest) – grant process**

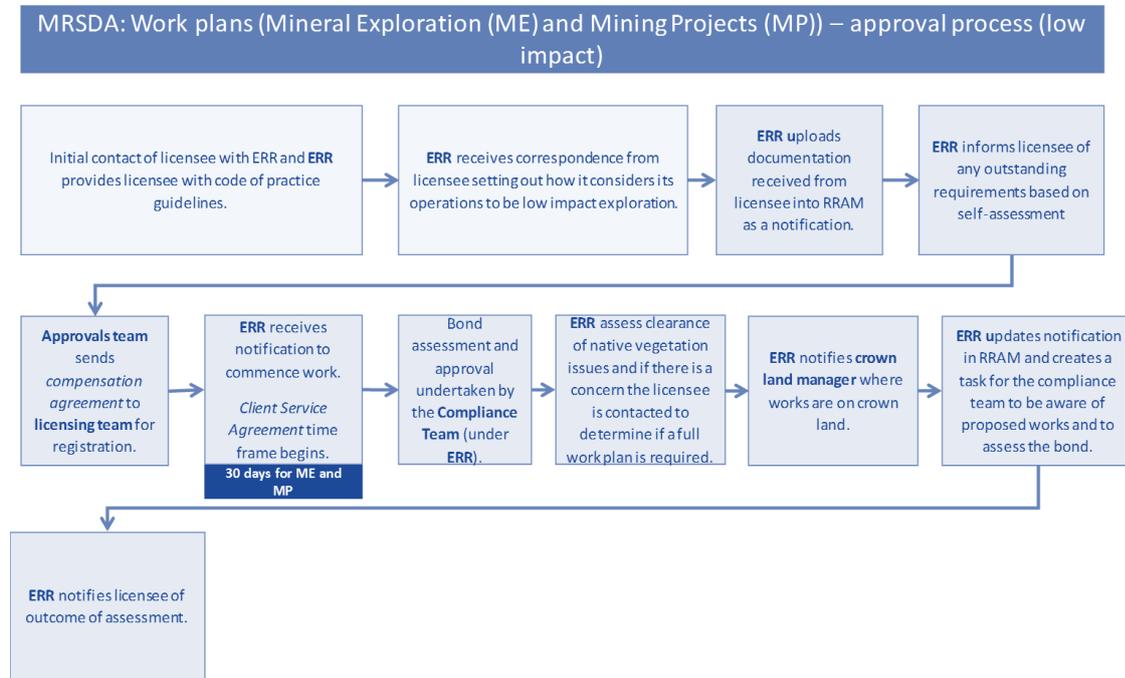


**Chart A1.4: Other MRSDA Licence and extractive industry work authority variations – grant process**

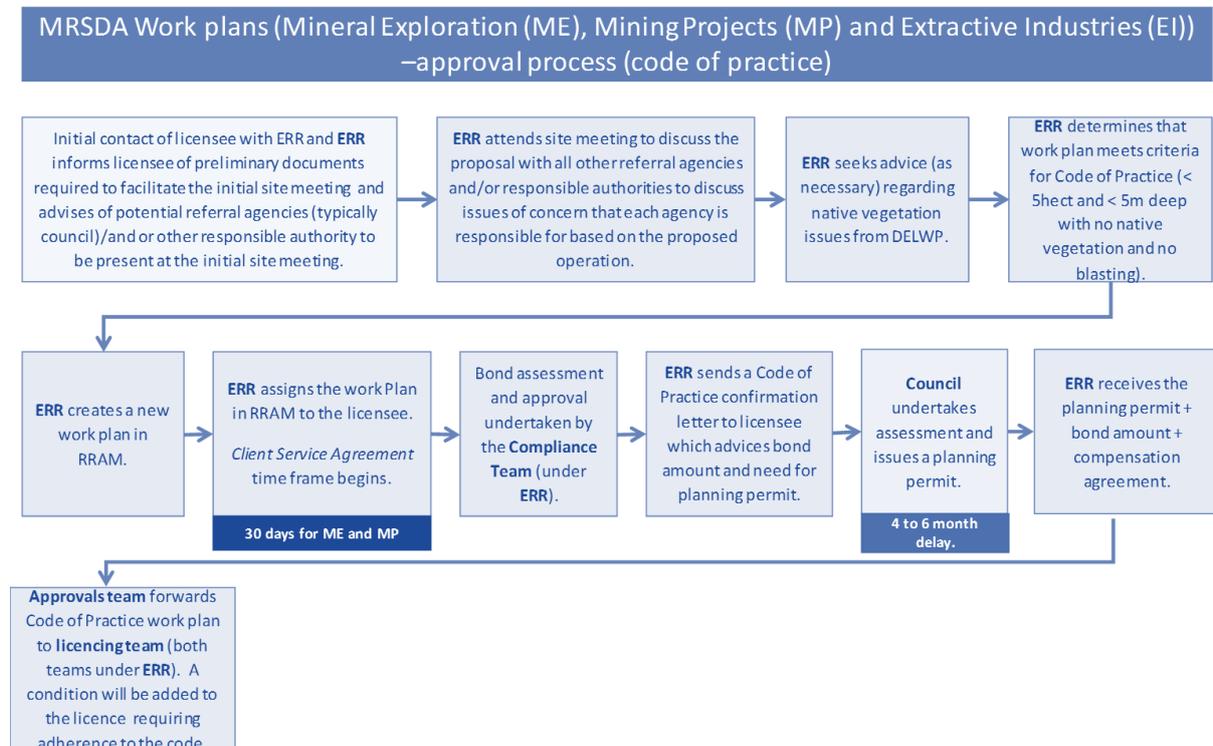


## Appendix 2: MRSDA work plans – approval processes

**Chart A2.1: Mineral exploration and mining projects (low impact) – work plan approval process**

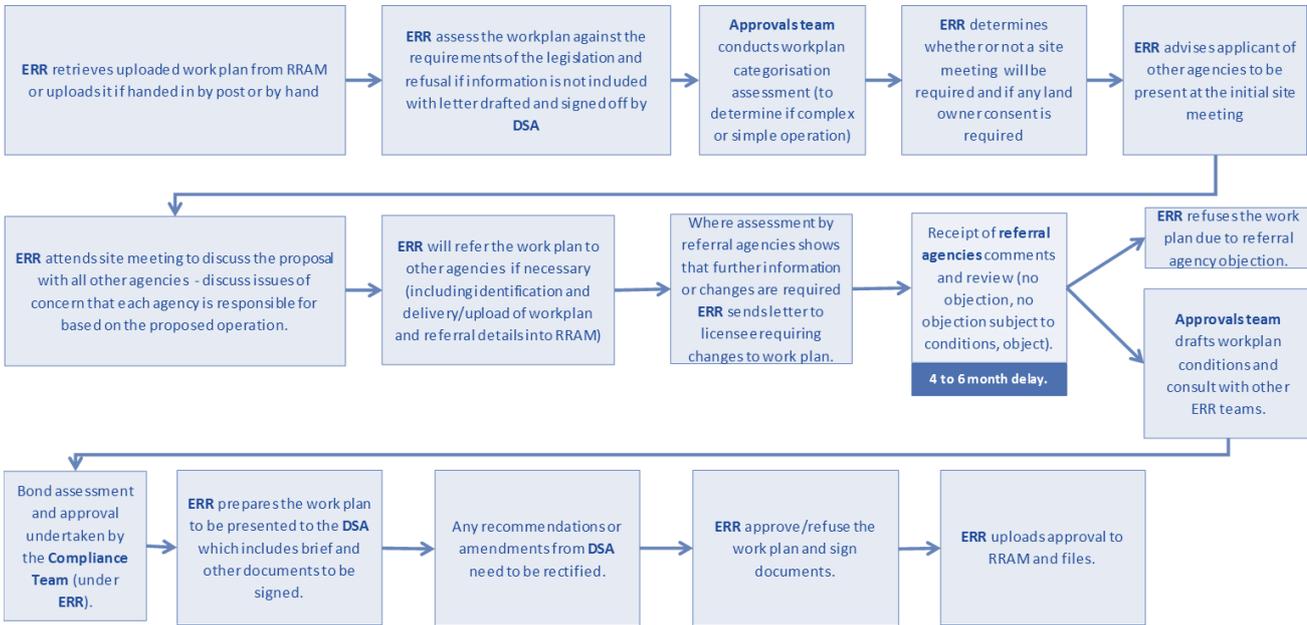


**Chart A2.2: Mineral exploration and mining projects, and extractive industries (code of practice) – work plan approval process**



**Chart A2.3: Mineral exploration – work plan approval process**

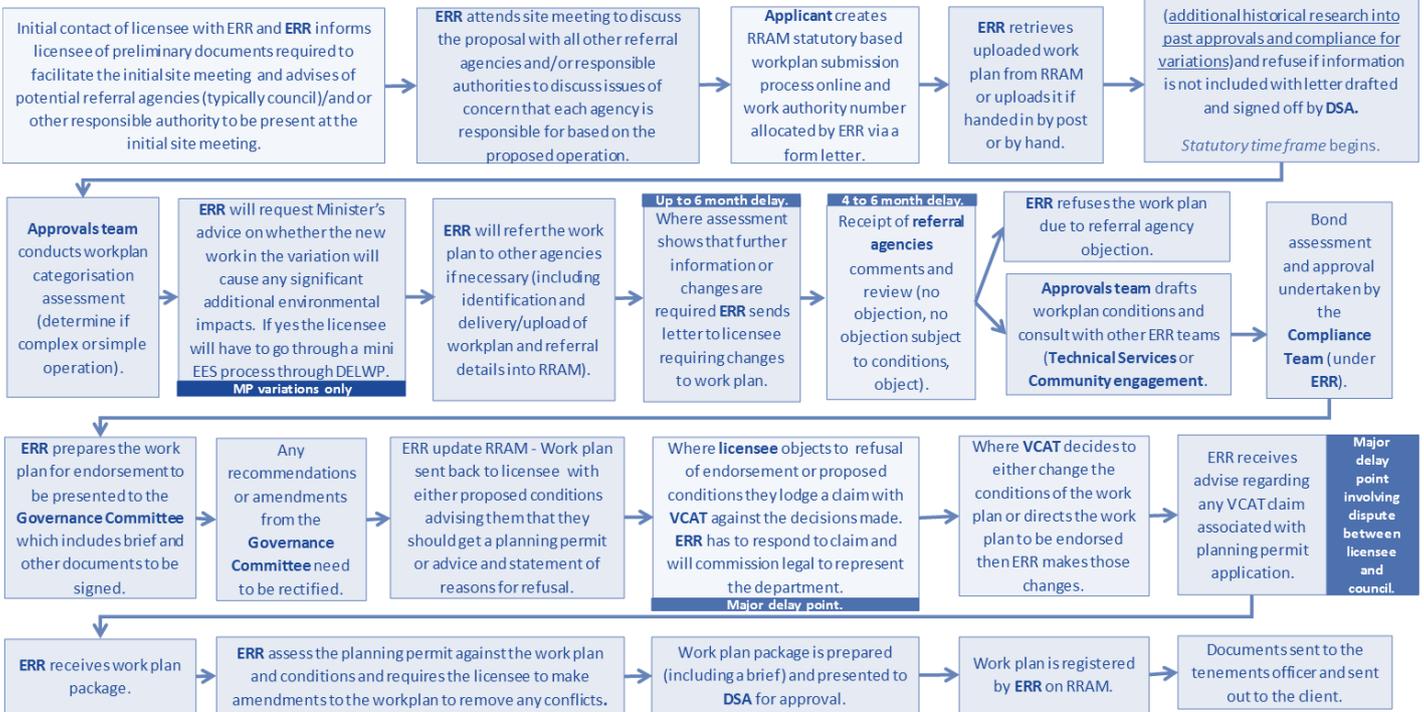
**MRSA: Work plans (WP) and variations (Mineral Exploration (ME)) – approval process**



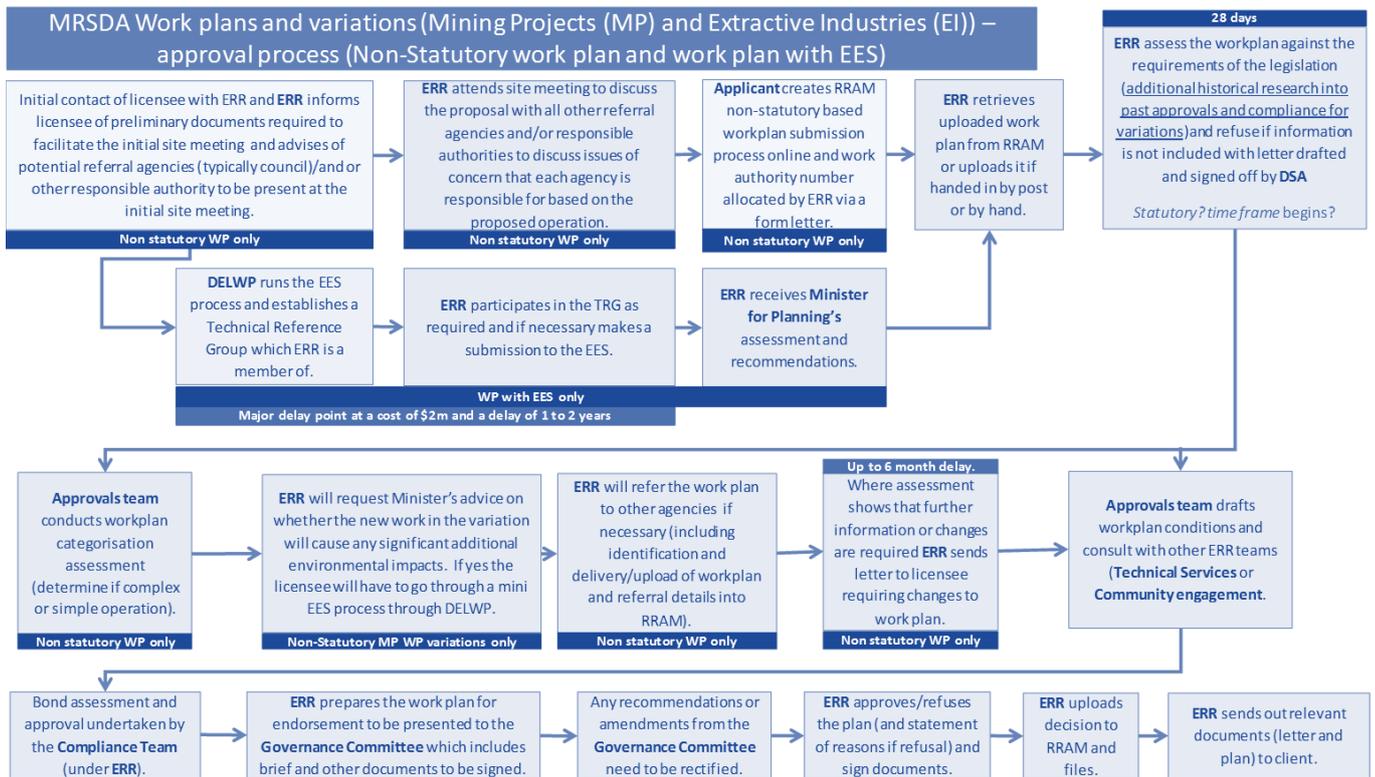
Statutory timeframe for MRSA work plans and variations begin when a number of things happen (see sections 40(4)(a)(b)(c)(d)(e) and (f) and 41(3) (a)(b)(c)(d)(e) and (f) of the MRSA)

**Chart A2.4: Mining projects and extractive industries – work plan approval process (Statutory work plan)**

**MRSA Work plans and variations (Mining Projects (MP) and Extractive Industries (EI)) – approval process (Statutory work plan)**

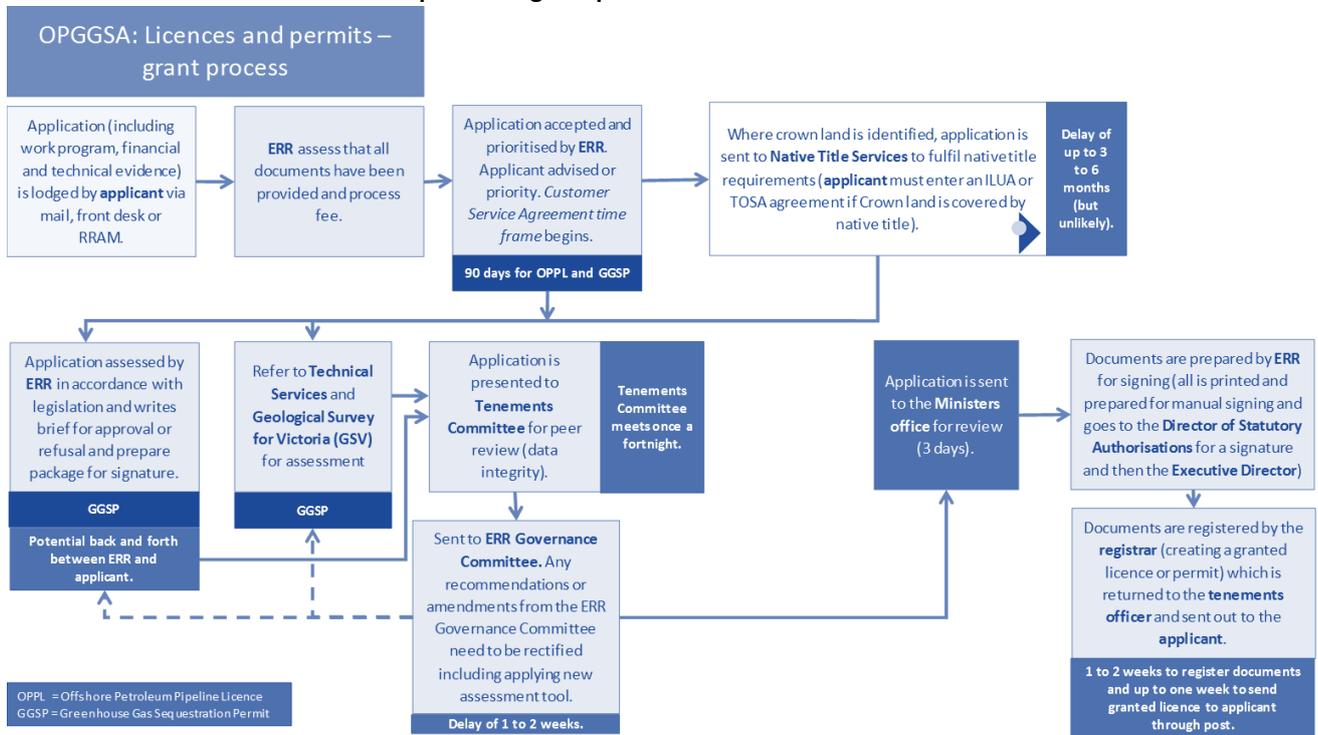


**Chart A2.5: Mining projects and extractive industries – work plan approval process (Non-statutory work plan or work plan with EES)**

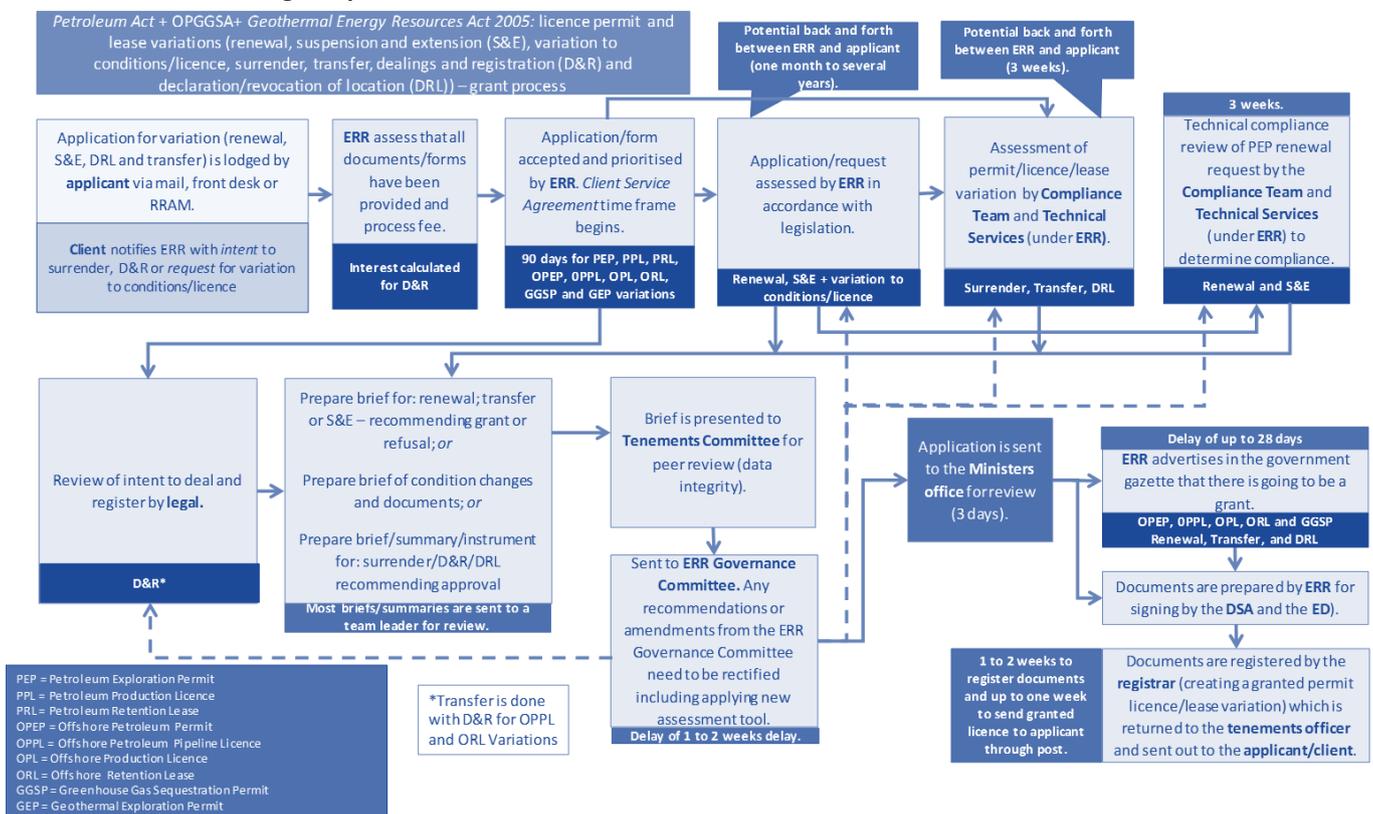


# Appendix 3: Petroleum and geothermal energy resources – grants and approval processes

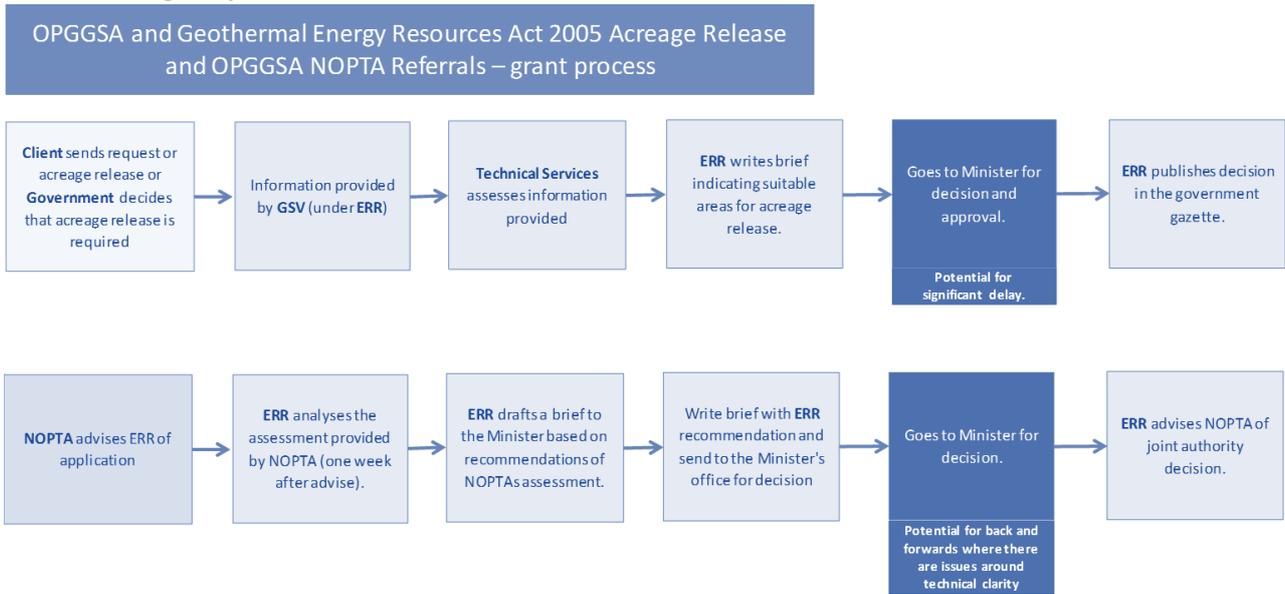
**Chart A3.1: OPGGSA licences and permits – grant process**



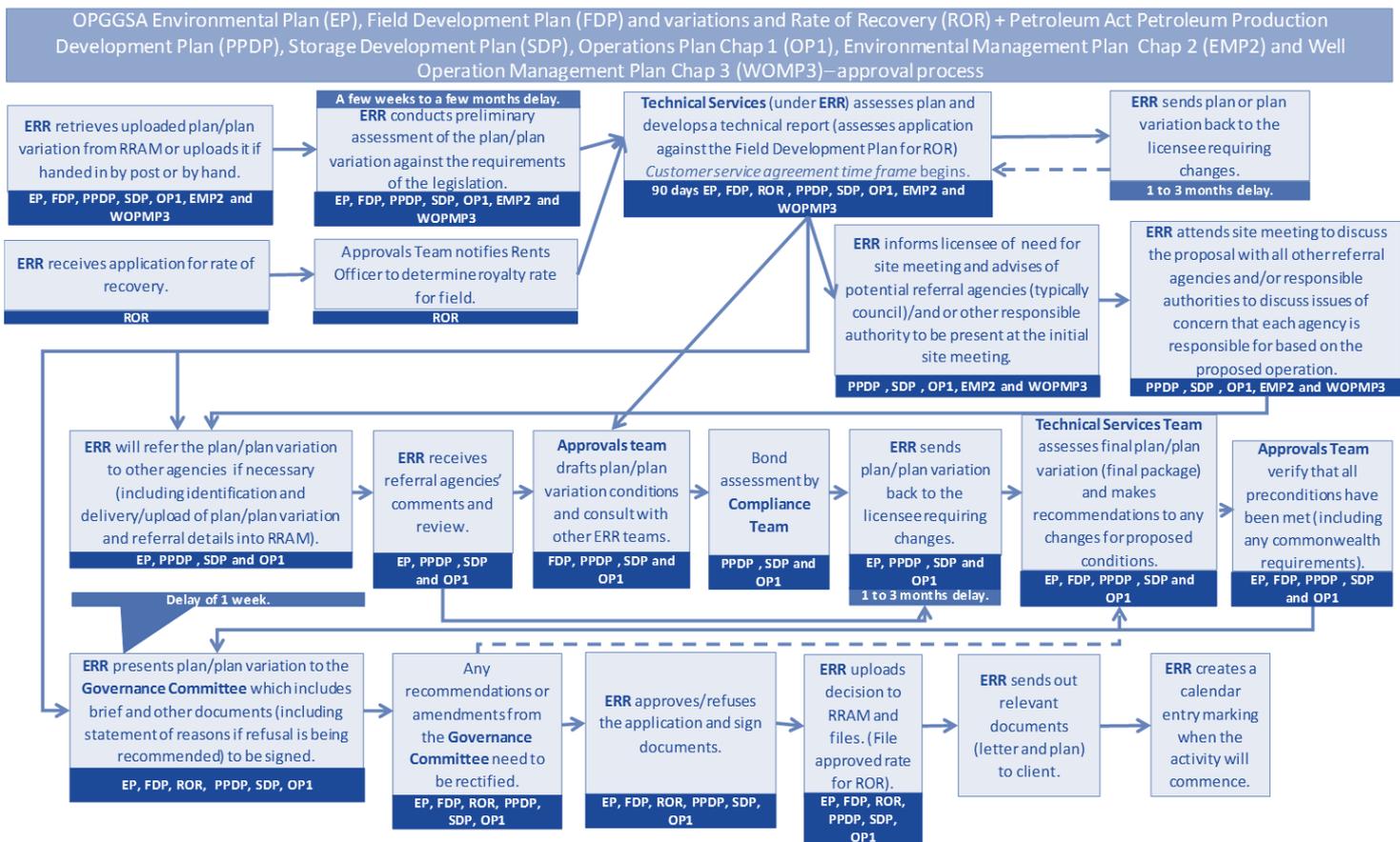
**Chart A3.2: Petroleum Act 1998, OPGGSA and Geothermal Energy Resources Act 2006 licence permit and lease variations – grant process**



**Chart A3.3: OPGGSA and Geothermal Energy Resources Act 2005 Acreage release and OPGGSA NOPTA referrals – grant process**



**Chart A3.4: OPGGSA and Petroleum Act 1998 – approval processes**



---

<sup>1</sup> Defined in Victoria as any naturally occurring hydrocarbon or a mixture of hydrocarbons whether they are in a liquid, solid or gaseous state and a mixture of non-hydrocarbon gas such as carbon dioxide, hydrogen sulphide, nitrogen or helium and *not including coal and coal seam gas*.

<sup>2</sup> University of Melbourne, Victorian Geothermal Assessment Report 2016

<sup>3</sup> Mineral Resources (Sustainable Development) Amendment Bill 2013 Page 3677 30 October 2013 ASSEMBLY Second Reading Speech.

<sup>4</sup> Proposed Mineral Resources (Sustainable Development) (Extractive Industries) Amendment Regulations 2014 (Fees) Regulatory Impact Statement Victorian Department of State Development, Business and Innovation, March 2014.

<sup>5</sup> Duke, J M, (2010), *Government geoscience to support mineral exploration: public policy rationale and impact*, Prepared for Prospectors and Developers Association of Canada cited in Proposed Mineral Resources (Sustainable Development) (Extractive Industries) Amendment Regulations 2014 (Fees) Regulatory Impact Statement Victorian Department of State Development, Business and Innovation, March 2014.

<sup>6</sup> Proposed Mineral Resources (Sustainable Development) (Extractive Industries) Amendment Regulations 2014 (Fees), Regulatory Impact Statement Victorian Department of State Development, Business and Innovation, March 2014.

<sup>7</sup> Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013, Regulatory Impact Statement Victorian Department of State Development, Business and Innovation 19 August 2013, Deloitte Access Economics.

<sup>8</sup> Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013, Regulatory Impact Statement Victorian Department of State Development, Business and Innovation 19 August 2013, Deloitte Access Economics.

<sup>9</sup> *We need to talk: About the future of mining*: PwC future in sight series, 2017.

<sup>10</sup> Victorian offshore area is defined as coastal waters consisting of the first 3 nautical miles seaward of the Territorial Sea Baseline (see Section 5, Part I of the *Offshore Petroleum and Greenhouse Gas Storage Act 2010*)

<sup>11</sup> <http://report.hazelwoodinquiry.vic.gov.au/part-three-fire-risk-management/regulation-fire-risk-hazelwood-mine/regulatory-regime.html>

<sup>12</sup> Essentially based on OH&S regulations around general duty and being prescriptive only where needed

<sup>13</sup> [http://earthresources.vic.gov.au/earth-resources-regulation/about-us/rram-terms?SQ\\_DESIGN\\_NAME=mobile&SQ\\_ACTION=set\\_design\\_name](http://earthresources.vic.gov.au/earth-resources-regulation/about-us/rram-terms?SQ_DESIGN_NAME=mobile&SQ_ACTION=set_design_name) (accessed 14 October 2017).

<sup>14</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/sand-stone-and-clay/work-authority-compliance/tenement-compliance> (accessed 7 October 2017).

<sup>15</sup> Mineral Resources Amendment (Sustainable Development) Bill Page 2758 28 July 2010 Assembly Second reading.

<sup>16</sup> An Overview of the Australian Legal Framework for Mining Projects in Australia, Chambers & Company International Lawyers (October 2013).

<sup>17</sup> <http://www.tecsolaustralia.com.au/What-to-know-about-Mining-Tenements-bgp2999.html> (accessed 6 October 2017).

<sup>18</sup> Proposed Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013 Regulatory Impact Statement Department of State Development, Business and Innovation 19 August 2013.

<sup>19</sup> Source: [http://earthresources.vic.gov.au/earth-resources-regulation/about-us/rram-terms?SQ\\_DESIGN\\_NAME=mobile&SQ\\_ACTION=set\\_design\\_name](http://earthresources.vic.gov.au/earth-resources-regulation/about-us/rram-terms?SQ_DESIGN_NAME=mobile&SQ_ACTION=set_design_name) (accessed 14 October 2017); and Proposed Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013 Regulatory Impact Statement Department of State Development, Business and Innovation 19 August 2013.

<sup>20</sup> Proposed Mineral Resources (Sustainable Development) (Mineral Industries) Regulations 2013 Regulatory Impact Statement Department of State Development, Business and Innovation 19 August 2013.

<sup>21</sup> <https://www.goldenplains.vic.gov.au/sites/default/files/P17-120%20WA1497%20Work%20Plan%20Specific%20Conditions.pdf> (accessed 10 October 2017).

<sup>22</sup> See Schedules 2, 3, 4 and 5.

<sup>23</sup> Mineral Resources (Sustainable Development) Amendment Bill 2013 Page 3677 30 October 2013 ASSEMBLY Second Reading

<sup>24</sup> Fee will depend on size of intended quarry, proximity to sensitive locations and whether operations involve blasting and whether the work plan will require a planning permit (statutory endorsement (SE)) or Environment Effects Statement (EES) (see Mineral Resources (Sustainable Development) (Extractives Industries) Amendment Regulations 2014 (Fees), Regulatory Impact Statement Victorian Department of State Development, Business and Innovation March 2014, Deloitte Access Economics.

<sup>25</sup> Compensation on the value of the stone is negotiated between the two parties during the application process where stone on private land not owned by the applicant of a work authority

<sup>26</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/sand-stone-and-clay/approval-requirements> (accessed 7 October 2017).

<sup>27</sup> See section 77G(2) of the MRSDA.

<sup>28</sup> See MRSDA Section 80.

<sup>29</sup> In the case of low impact exploration, a licensee is not required to have an approved work plan to commence activities.

<sup>30</sup> Extractives activities carried out on land that has an area of less than five hectares and a depth of less than five metres; and does not require blasting or the clearing of native vegetation do not require a work plan.

- 
- <sup>31</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/minerals/approval-to-do-work-with-a-licence/work-plan-and-planning-consent> (accessed 8 October 2017).
- <sup>32</sup> Economic Development and Infrastructure Committee Inquiry into greenfields mineral exploration and project development in Victoria May 2012.
- <sup>33</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/minerals/approval-to-do-work-with-a-licence/statutory-endorsement-of-work-plans> (accessed 10 October 2017).
- <sup>34</sup> Statutory recognition to the previous administrative practice of ‘work plan endorsement’ from 1 February 2012.
- <sup>35</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/minerals/approval-to-do-work-with-a-licence/statutory-endorsement-of-work-plans> (accessed 10 October 2017).
- <sup>36</sup> See Chart A1.1 in Appendix 1.
- <sup>37</sup> See Charts A2.2, A2.4 and A2.5 in Appendix 1.
- <sup>38</sup> <http://onshoregas.vic.gov.au/> (accessed 4 October 2017).
- <sup>39</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/department-reports/current-earth-resources-tenements>.
- <sup>40</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/licensing-glossary#petauth> (accessed 15 October 2017).
- <sup>41</sup> Only exploration permit holders can apply for a retention lease within the permit area after discovering petroleum.
- <sup>42</sup> Only an exploration permit or retention lease holder can apply for a production licence.
- <sup>43</sup> Only the holder of an onshore exploration permit, onshore retention lease, onshore production licence, offshore petroleum exploration permit, offshore retention lease or offshore production licence holder can apply for a special drilling authorisation adjacent to its other title.
- <sup>44</sup> Only an exploration permit or retention lease holder can apply for a production licence.
- <sup>45</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/petroleum/offshore> (accessed 5 October 2017).
- <sup>46</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/petroleum/offshore> (accessed 5 October 2017).
- <sup>47</sup> [http://earthresources.vic.gov.au/\\_\\_data/assets/image/0010/1127899/Overview-Petroleum-Tenement-Process-fig1.gif](http://earthresources.vic.gov.au/__data/assets/image/0010/1127899/Overview-Petroleum-Tenement-Process-fig1.gif) (accesses 15 October 2017).
- <sup>48</sup> [http://earthresources.vic.gov.au/\\_\\_data/assets/image/0010/1127899/Overview-Petroleum-Tenement-Process-fig1.gif](http://earthresources.vic.gov.au/__data/assets/image/0010/1127899/Overview-Petroleum-Tenement-Process-fig1.gif) (accesses 15 October 2017).
- <sup>49</sup> <http://earthresources.vic.gov.au/earth-resources-regulation/licensing-and-approvals/petroleum/environment-plans> (accessed 15 October 2017).