National Waste Programme Quarterly Report

Quarter 1 FY21/22

This report provides a "snapshot in time" of the progress being made within the National Waste Programme (NWP) community to achieve the strategic objectives of the programme. The report provides updates from NDA-estate waste producers, including a look-back, focus areas for the next quarter; a status update table on projects, events and significant deadlines for the coming quarter; and updates / changes to the threats / opportunities register.

For more information, please contact nwp@llwrsite.com





National Waste Programme

LLW National Waste Programme Quarterly Report - Q1, FY21/22

1. Overview - National Programme

1.1. Quarterly Update

- Procurement was completed for the Integrated Waste
 Management Programme (IWMP) Waste Culture Metrics,
 KPIs and Incentivisation project via the NWP project support
 call-off contract and a kick-off meeting was held with the
 contractor.
- Case studies on Waste Culture, and Non-Radioactive Waste Management were submitted to the IWMP Programme Management Office to support the end of financial year report.
- The updated Container Signposting Resource and Training Database were shared with stakeholders via the Hub.
- The second Industry Waste Mis-Consignment Lexicon project stakeholder workshop was held, and progress was made on developing a scaled and nuanced definition.
- A positive and constructive regulatory engagement session was held with EA and ONR to share work-in-progress on the industry definition of mis-consignment project.
- A project scoping session was held with NDA IWM Strategy and NDA Environmental teams to develop an approach for the IWMP Conventional Waste Management project.
- The programme of work for FY2021/22 for the Problematic Waste Integrated Project Team (IPT) was approved by the IPT Board.
- The first Environmental Safety Case (ESC) Programme
 Customer Working Group hosted by the NWP Office was
 held; this will be a useful working arrangement for engaging
 with customers on the ESC Programme moving forwards.

1.2. Peer Reviews & Assists

 A meeting was held with DSRL to discuss the scope of a Peer Learning Event to support future use of the combustible waste route at the Dounreay site.

1.3. Key Meetings

- The NWP Delivery Overview Group (DOG) meeting was held with over 30 attendees from 15 organisations: including a celebration of the 10-year anniversary of the formation of the NWP Office.
- The NWP Office represented LLW Repository Ltd at a workshop on the NDA Container Strategy Strand B (Management Body) workstream.
- The NWP, alongside colleagues from WMS, represented LLW Repository Ltd at a workshop on the NDA Packages Strategy Strand A (Catalogue) workstream.
- The NWP Office represented LLW Repository Ltd at a workshop on the NDA Container Strategy Strand B (Management Body) workstream.
- The Head of NWP represented the UK at an International Atomic Energy Agency Working Group meeting on cost estimating for Naturally Occurring Radioactive Materials (NORM) management, sharing the UK experiences of radioactive waste management cost estimating.

- Initiate stakeholder engagement across a range of NWP projects such as the IWMPG Characterisation project and the National Strategic BAT Reviews.
- Conclude procurement for the IWMP Cost Norms project and hold kick-off.



Waste Management Services

LLW National Waste Programme Quarterly Report - Q1, FY21/22

2. Waste Management Services

2.1. Quarterly Update

- A Supplier Engagement Session was held to support the recompetition of the Thermal and Conditioning framework, attended by over 40 personnel from 20 organisations.
- A meeting was held with LLWR's Waste Delivery team to develop the scope required to access a supercompaction and disposal service for drums recharacterised as Low Level Waste (LLW) through the Plutonium Contaminated Material (PCM) re-characterisation project. The service will incorporate the provision of packaging and technical support.
- A meeting was held with Sellafield regarding the Calder Heat Exchangers project. Updates were provided on the current phases of work ongoing, specifically Study 2 which includes waste processing and disposal of heat exchangers.
- A contract for the treatment and disposal of up to 120 Multi Element Bottles (MEBs) from Sellafield over the next 3 years has been awarded to Cyclife, start-up meetings were held to discuss the project in further detail.
- Progress is being made on the Harwell Offsite Discharge Pipework (ODP) project; this will be a high priority review for both organisations.
- A meeting was held with DSRL to discuss the Stores Decant project and the repacking of containers with high voidage issues.
- An engagement meeting with LLWR and Magnox was held to discuss the Dungeness Boiler project and detail the plans for characterisation of the boilers. Engagement milestones were established with further discussions taking place in July.

- A meeting was held with HMNB Clyde to discuss their legacy tanks project. MOD have now indicated that the project can proceed. LLWR will establish a revised service schedule based on the new start date.
- The tender evaluation process is underway to select a Contractor from LLWR's metals framework for Mixed Metallic Waste from Sellafield. Between 700 and 900te of containerised metallic waste generated will be consigned through this service.
- Following several weeks of planning and management between LLW Repository Ltd, Cyclife UK and Sellafield, the first pair of pond skips, in over 12 months, was consigned from Sellafield to Cyclife. The opening of this route allows Sellafield to continue high hazard risk reduction on the site.
- A workshop was held with Sellafield and the supply chain for the Metallic Waste Treatment Services Framework to discuss supply chain capability and services in relation to higher activity items originating from the legacy ponds and silos.

- Prepare and execute the Characterisation Customer-Supplier Forum.
- Execute the first consignments of the Harwell Offsite Discharge Pipeline.





3. Overview - Sellafield Ltd

3.1. Quarterly Update

Q1 performance has been strong with a focus on meeting the site demand for operational wastes as well as bringing online the Skip Size Reduction Facility and streamlining the Chemical disposal process.

Good progress has been made on a range of transformation activities, including;

- Issue 2 of the CLESA Environmental Safety Case has been signed off and approved.
- A review has been undertaken as part of the waste profession plan of the coverage of key waste roles within Sellafield. These include Plant Solid Waste Coordinator, Waste Advisor, Site Clearance Coordinator and Skip Controller.
- Alternative treatment for the stripping and recycling of electrical cable has been agreed with Sellafield service provider.
- Multi Element Bottle contract has been placed with Cyclife and the first bottles will be consigned at the end of May.
- Re-tendering of Very Low Level Waste (VLLW) (hazardous and non-hazardous) contracts successfully completed.
- Initial engagement with LLWR on provision of inventory data to support work they are undertaking on optimised use of the LLWR site at the request of NDA.
- Pile Fuel Storage Pond skips disposal route restarted.
- Streamlining of packaging process for chemicals for disposal from 30 days to 1 day.

- Supporting National Waste Programme project on the Mis-Consignment Lexicon.
- Bring the Skip Size Reduction facility into active commissioning and operations.
- Continued progress on Decommissioning Waste Services Partnership to support High Hazard and Risk Reduction.
- Continued reduction of redundant chemical numbers on the Sellafield site through off site treatment.
- Resolution of a treatment method for the C-Type flasks and higher activity metallic waste route information gathering.
- Approval for the revised Waste Programme Mandate, Benefits Map and planning.
- Continued progress of the waste people plan, focusing on workload planning.





4. Overview - Magnox Ltd

4.1. Quarterly Update

At the end of Q1 Magnox has shipped 3te metallic waste, 21m³ of combustible waste, 1528m³ of VLLW and has consigned one container for disposal at LLWR.

Progress has been made across a number of projects:

- Actively involved in a number of IWMP projects that have begun including Waste (Culture) Comms project; waste metrics project as well as preparing to launch the projects Magnox is leading on across the programme including Career Pathways and Virtual Mobile Waste teams.
- Review of synergies between IWMP and the Magnox Waste Management Improvement Programme (WMIP) via a comparison of programme blueprints; consolidation of these work areas is progressing within Magnox.
- Participation with LLWR's customer working group.
- Harwell ODP pipeline project BAT approved and preparations almost complete for first consignment.
- Collaboration with LLWR regarding trial of the new enquiry process for characterisation ahead of the transition to Waste Characterisation Assurance Support Services (WCASS) III.
- New problematic waste register produced which includes legacy waste.
- BAT workshops held for Active Effluent Treatment Plant (AETP) sludge and sand/gravel streams – part of the phase 2 waste streams for the Dungeness borderline wet waste project.

- Begin shipments of ODP pipeline from Harwell for Ultra High Pressure (UHP) cleaning.
- Complete BAT assessments for Dungeness borderline wet waste project – phase 2 waste streams.
- Hold first characterisation for non-practitioners training session and first cohort to begin LLW fingerprint management workbook training.
- Confirmation of scope of work to be undertaken in collaboration with LLWR on LAW management for Rolling Programme of Decommissioning (RPD) and get work underway.
- Successfully launch the Magnox-led IWMP projects.
- Transition to WCASS III and new operating model.





5. Overview - Dounreay Site Restoration Ltd

5.1. Quarterly Update

Operations:

- Decommissioning activities were mostly limited to clean wastes and compliance related LLW / Out of Scope of Regulation (OoSoR) justified under Customer Service Agreements as the Fingerprint validation and underpinning exercise continues.
- Some LLW drums have been consigned to Waste Receipt Assay Characterisation and Supercompaction (WRACS) under new approved Fingerprints, but no assay or compaction has been carried out as assay systems were awaiting calibration.
- Non-Containerised waste diversion work resumed early May and completed on three large bulk items which now await completion of characterisation before moving to disposal phase work.
- Oils and Solvents WCIs being prepared for submission to LLWR.

Compliance:

- The number of Fingerprints implemented for use by plants / projects has increased to 13 at end of Q1 – additional resource has been sourced to accelerate delivery of the programme.
- Customer Service Level Agreements continue to permit controlled LLW generation of compliance related LLW and OoSoR wastes for facilities awaiting updated Fingerprints.

- Resume consignment of compliant LLW for waste processing to include a campaign of Encapsulation Plant / D3100 disposal operations.
- Finalise characterisation of Non-Containerised Waste for offsite diversion via LLWR Framework.
- Complete stored LLW HHISO container voidage Best Practicable Means (BPM) Statements.
- Implement Scope of Work to assess impact of Fingerprint validation and underpinning project on stored legacy wastes.
- Consignment of Oils and Solvents for off-site disposal through LLWR Waste Services Contract.
- Continue review, revision and approval of Dounreay Fingerprints.





6. Overview - LLW Repository Site

6.1. Quarterly Update

- Waste Services Quotation (WSQ) received for new Metallic Service Provider.
- Consignment of batch 43 combustibles to Tradebe.
- WSQ approved for hazardous & non-hazardous VLLW.
- 5 x interim storage FHISO containers consigned to Suez.
- NSG team mobilised to support PCM Drum recharacterisation and commencement of Drum Assay for the PCM re-characterisation project.
- Consignment of Batch 44 Combustibles to Tradebe.
- Consignment of Batch 20 Metals to Augean.
- Waste Enquiry Form (WEN) submitted for Combustible Waste Treatment Service.
- Soil samples dispatched to analytical laboratory (suspected to contain mononitrotoluene).
- Consignment of metals batch 19 to Augean.
- Loading of VLLW batch 002 (material from the Magazines) complete - to be consigned to Suez.
- Preparation of Large Items from Demolition continues.
- Loading of metals batch 21 for consignment to Augean complete - to be consigned to Augean.
- Loading of metals batch 22 for consignment to Augean complete to be consigned to Augean.
- Loading of combustibles batch 11 for consignment to Tradebe complete to be consigned to Tradebe.
- LLW delivery strategy documents are being progressed (compliance documentation for the PCM drum recharacterisation programme of work).

- Finish loading VLLW generated from Drigg Grouting Facility (DGF) and various projects around the site.
- Preparation and loading of batteries, cadmium and Ion Exchange Units into drums for consignment.
- Continue providing support to the Business-as-Usual (BAU) projects as they arise.
- Provide support to the Drum re-characterisation Project transition to BAU and readiness for consigning recharacterised drums off the LLWR Site for supercompaction.
- Consignment of combustibles batch 11 to Tradebe.
- Consignment of Mag 4 DEMO HHISO 1.
- Consignment of Metals batch 21 to Augean.
- Consignment of metals batch 22 to Augean.
- Consignment of 3 x filter housing units to Augean.
- Load further PCM magazines waste (metal / combustible / VLLW) consignments as they arise.
- Consignment of metallic waste generated as part of the PCM demolition programme.
- Setting up task team for the management of TNT/ unexploded ordinance.



7. Forward Calendar

	May 2020					
М	Т	W	Т	F	S	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

07/05/2020 – LLW Practitioners Forum Telecon (T)
14/05/2020 – LLW Practitioners Forum Telecon (T)
18/05/2020 – LLW NWP Monthly Managers Telecon (T)
19/05/2020 – LLW Practitioners Forum Telecon (T)
28/05/2020 – NWP Monthly Report Waste Producer
Submission Deadline

June 2020						
М	Т	W	Т	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	30				

01/06/2020 – LLW NWP Programme Board (T)
03/06/2020 – LLW NWP Regulatory Meeting (T)
15/06/2020 – LLW NWP Monthly Managers Telecon (T)

July 2020						
М	Т	W	Т	F	S	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

01/07/2020 – NWP Monthly Report Waste Producer Submission Deadline (June Report) 14/07/2020 – LLW NWP Monthly Managers Telecon (T) 29/07/2020 – NWP Monthly Report Waste Producer Submission Deadline (July Report)

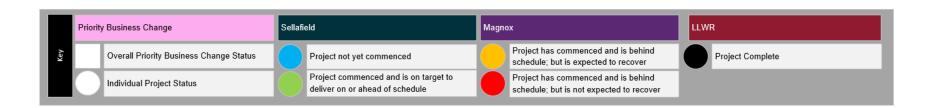




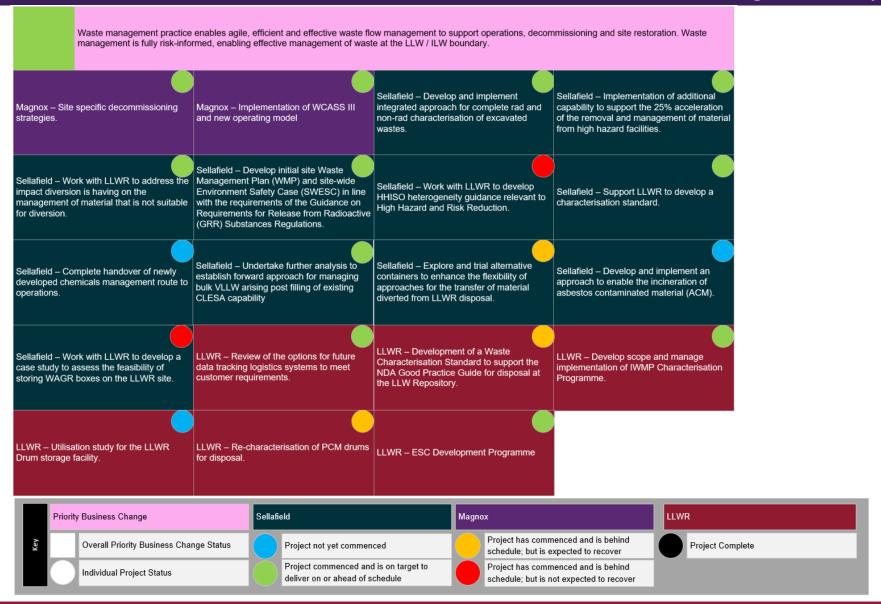
8. Performance against priority business changes





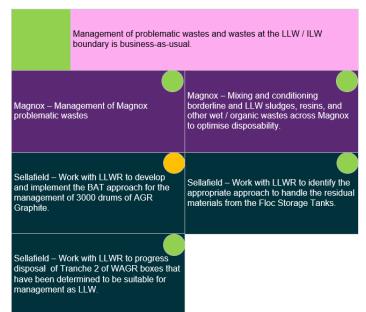


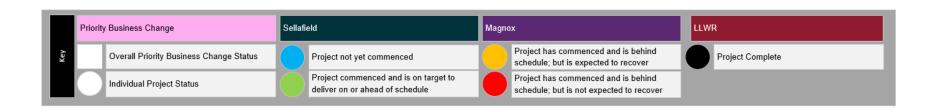














9. Strategic Threats and Opportunities

Strategic Threats						
	<2% 2-25%		26-50%	51-80%	>80%	
	Very Unlikely	Unlikely	Possible	Likely	Very Likely	
Severe	High (11)	High (15)	High (17)	Very High (19)	Very High (20)	
Major	Medium (7)	Medium (9)	1 High (14)	High (16)	High (18)	
Moderate	Low (4)	Low (5)	2 Medium (8)	High (12)	High (13)	
Marginal	Very Low (1)	7 6 Very Low (2)	Low (3)	Medium (6)	Medium (10)	

	Strategic Threat
1.	Significant waste mis-consignment event causes partial or full closure of diversion or disposal route(s).
2.	Insufficient radiological, non-radiological or volumetric capacity in the supply chain. Or excessive demand for capacity.
3.	Insufficient non-radiological, radiological or volumetric capacity at LLWR.
4.	Changes in legislation, governmental policy or regulatory perspective prevents or significantly impacts execution of LLW Strategy.
5.	Large, volumes of waste from rad contaminated land remediation generated and managed off-site as lower activity waste.
6.	Non-industry stakeholder concerns over radioactive waste management constrain access to existing routes and / or development of new routes and facilities.
7.	Global event (such as a future pandemic or war) impacts functioning of all parts of the LLW community, waste management and route availability.



Strategic Opportunities					
	<2% 2-25% 26-50%			51-80%	>80%
	Very Unlikely	Unlikely	Possible	Likely	Very Likely
Marginal	Very Low (1)	3 4 Very Low (2)	5 Low (3)	Medium (6)	Medium (10)
Significant	Low (4)	Low (5)	Medium (8) 1 6	High (12)	High (13)
Major	Medium (7)	Medium (9)	High (14)	High (16)	High (18)
Substantial	High (11)	High (15)	High (17)	Very High (19)	Very High (20)

	Strategic Opportunity
1	Positive step change in the sustainability of the supply chain.
2	Relevant ILW diverted from HAW disposal.
3	Buffer storage capabilities can be mobilised for contingency situations (only).
4	Improved use of transport infrastructure to support management of LLW.
5	Fit-for-purpose flexible and agile packaging fleets available for LLW management.
6	Management solutions available and in use for complex, challenging and problematic LLW (PW).