

**Waste and Recycling Committee**

Date: 14<sup>th</sup> November 2019

Subject: Asset Management Plan Update – Part A

Report of: Head of Engineering and Asset Management – Waste and Resources

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**PURPOSE OF REPORT**

Provide members with an update on all Waste related Assets by way of an update to the current asset management plan and also current capital engineering projects.

**RECOMMENDATIONS:**

The Committee is recommended to:

- i) Note the contents of the report.

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Equalities Implications – Not Relevant to report

Risk Management – Contained in the body of report

Legal Considerations – Contained in the body of the report

Financial Consequences – See accompanying budget report

Financial Consequences – Capital – See accompanying budget report

Number of attachments to the report: 2 Appendices

Appendix A – Asset Management Plan 2019 – 20 - Action List Update Quarter 3 2019

Appendix B – Capital Programme 2018-22 - Update Quarter 3 2019

**BACKGROUND PAPERS:**

<b>TRACKING/PROCESS</b>		
Does this report relate to a major strategic decision, as set out in the GMCA Constitution		No
<b>EXEMPTION FROM CALL IN</b>		
Are there any aspects in this report which means it should be considered to be exempt from call in by the relevant Scrutiny Committee on the grounds of urgency?		No
GM Transport Committee	Overview & Scrutiny Committee	
Not applicable	Not applicable	

## 1. INTRODUCTION

This report provides Members with updates relating to the Waste and Resources Asset portfolio, providing introductory updates and current positions. The report also provides updates on the current 2019-20 Capital Projects and look ahead to 2020-21 proposed projects.

Assets within the Waste and Resources Team fall into three main categories as listed below.

### A – Operational Waste Facilities

Operated and managed by Suez comprising of 39 separate facilities:

- (1) Thermal Recovery Facility (TRF);
- (4) Mechanical Treatment and Reception Facilities (MTR);
- (1) Mechanical Recovery Facility (MRF);
- (7) Transfer Loading Stations (TLS);
- (4) Bio-Waste - Transfer Loading Stations (Bio-TLS);
- (1) Shredding Facility (SF);
- (1) Reuse Hub, and
- (20) Household Waste Recycling Centres (HWRC).

### B – Buildings and Land

- (7) Individual locations separate to the Suez contract.

### C – Closed Landfill Sites

(22) Former landfill sites closed since approximately 1977-82:

- (2) Managed by GMCA;
- (2) Managed by GMCA and MCC with shared responsibility, and
- (18) Former GMWDA sites sold in 2012 to POS Landcare Ltd.

<b>A - Operational Waste Facilities</b>		
<b>WRMS Contract Lot 1 (Asset Locations)</b>	Raikes Lane, Bolton	TRF
	Reliance Street, Newton Heath	MTR, HWRC
	Longley Lane, Sharston	MTR, MRF, HWRC
	Cobden Street, Salford	MTR, TLS, HWRC
	Bredbury, Stockport	MTR, TLS, HWRC, Bio-TLS
	Arkwright Street, Oldham	SF, TLS, HWRC
	Bayley Street, Tameside	TLS, HWRC
	Chichester Street, Rochdale	TLS, HWRC, Bio-TLS
	Every Street, Bury	TLS, HWRC
	Salford Road, Bolton	TLS, HWRC, Bio-TLS
	Nash Road, Trafford	Bio-TLS, Reuse Hub
<b>HWRCMS Contract Lot 2 (Asset Locations)</b>	Adswod, Stockport	HWRC
	Ash Road, Tameside	HWRC
	Boysnope Wharf, Irlam	HWRC
	Cemetery Road, Radcliffe	HWRC

	Chester Road, Stretford	HWRC
	Hurtswood Court, Bolton	HWRC
	Lumns Lane, Swinton	HWRC
	Rosehill, Marple	HWRC
	Sandfold Lane, Levenshulme	HWRC
	Springvale, Middleton	HWRC
	Woodhouse Lane, Altrincham	HWRC
<b>B - Buildings and Land</b>		
Adswood	Small parcel of land adjacent to Adswood HWRC	
Dunkirk Farm	Former farm buildings and dwellings	
Hardy Lane	GMCA Pumping Station located at Hardy Lane	
Hurtswood Court	Leased building plot adjacent to Raikes Lane TRF	
Lester Road	Former HWRC site leased to Salford City Council	
Nash Road	Vacant site adjacent to Nash Road IVC	
Reliance Street	Vacant land area adjacent to Reliance Street MTR	
Salford Road	Solar farm and buildings, including team office	
<b>C - Closed Landfill Sites</b>		
Bredbury	GMCA Asset and responsibility	
Waithlands	GMCA Asset and responsibility	
Barlow Hall	GMCA and MCC Asset with joint responsibility	
Cringle Road	GMCA and MCC Asset with joint responsibility	
18 Other Sites	Sold to POS Landcare in December 2012.	

Table 1.0 – Waste and Resources Asset List

## 2. 2019-20 UPDATES

This section provides individual updates for selected projects across the Waste and Resources Asset categories.

### 2.1 BREDBURY AND COBDEN STREET (MTR'S)

#### 2.1.1 BACKGROUND

In 2016-17, the former GMWDA embarked on a budget saving proposal to simplify existing Mechanical Biological Treatment (MBT) facilities. The key principals of that review were to simplify the technologies by removing the Biological element of treatment, reduce operational costs, reduce maintenance requirements and increase throughput efficiencies. Works have subsequently been undertaken at Cobden St, Salford and Bredbury Parkway, Stockport.

#### 2.1.2 COBDEN STREET – UPDATE

Work at Cobden Street commenced early in April 2019 with the appointed civils contractor to demolish and erect new push wall arrangements internally. Existing mechanical plant, such as the pre-shredder and (2) compactors were retained and serviced as part of the

mechanical works package. Mechanical installation and handover of the new MTR was completed on Monday 16<sup>th</sup> of September.

**Mechanical installation work delivered as part of that contract included:**

- Disconnection and removal of existing MBT plant;
- Design, supply and installation of new MTR configuration;
- Service of existing pre-shredder;
- Service of existing compactors and uprating of power output;
- Provision of new conveyor, including interface with pre-shredder;
- New overband magnet for removal of ferrous materials, prior to compaction;
- All required access and maintenance steelwork ladders; and
- All required electrical instruments and control panels.

The plant is capable of processing 100,000 tonnes of municipal waste per year for production of Refuse Derived Fuel (RDF).

### **2.1.3 BREDBURY - UPDATE**

Work at Bredbury commenced early in May 2019 with the appointed civils contractor to demolish and erect new push wall arrangements internally. The Civil works at this site were more significant than Cobden Street and involved re-shaping the tipping hall floor, infilling of the sub-basement level and erection of a new push wall layout. At Bredbury (2) new compactors units were supplied by GMCA from a UK based supplier and these were integrated with new conveyor installations. The existing pre-shredder was retained and serviced. Mechanical installation and handover is on schedule to be completed by the end of November 2019.

**Mechanical installation work delivered as part of that contract included:**

- Design, supply and installation of new MTR configuration;
- Service of existing pre-shredder;
- Provision of Interface with new uprated compactors;
- Provision of new conveyor, including interface with pre-shredder;
- New overband magnet for removal of ferrous materials, prior to compaction;
- All required access and maintenance steelwork ladders; and
- All required electrical instruments and control panels.

The plant is capable of processing 120,000 tonnes of municipal waste per year for production of Refuse Derived Fuel (RDF).

## **2.2 DUNKIRK FARM**

### **2.2.1 INTRODUCTION**

The Dunkirk Farm site is located in Hyde and is adjacent to Dunkirk Lane closed landfill site, which the former GMWDA sold onto POS Landcare in 2012 as part of a larger portfolio of 18 landfill sites. Dunkirk Farm (and the associated derelict buildings) was retained as an asset with development potential.

## **2.2.2 CURRENT POSITION - SALE OPPORTUNITY**

In June 2019 an offer was received by a local business proposing to retain the buildings and refurbish the site for the provision of a respite facility for fostered children and their families. The proposal would also include a petting farm at the site.

This offer was approved by GMCA's land a property team in September. Actions to conclude the sale are currently ongoing between both sides with conclusion expected in the coming months.

## **2.3 BREDBURY**

### **2.3.1 INTRODUCTION**

Bredbury closed landfill is located approximately 1km North of Bredbury Town Centre within Bredbury Business Park and comprises of two sites separated by a railway line which serves the Mechanical Treatment and Reception facility (MTR). The site comprises of two main landfill areas North and South split between the railway line.

The landfill consists of a leachate drainage system designed to capture percolated ground water, which is transferred to an on-site Methane Stripping Plant (MSP). The MSP treats leachate to reduce its Methane concentration prior to disposing of the treated effluent into the local public sewer. There also more than 90 gas monitoring boreholes where gas data is obtained for environmental monitoring purposes

### **2.3.2 CURRENT POSITION**

Programme works were to deliver a new and refurbished leachate collection system due to the existing infrastructure being beyond it economic lifespan. The project would also see installation of a new rising main connection to the local sewerage network.

The scheme has not been progressed this year due to resource commitments associated with delivering MTR works at Bredbury and Cobden Street. Our intention now is to deliver this scheme as part of next year's capital programme in the summer months when weather conditions are more favorable.

## **2.4 WAITHLANDS – CLOSED LANDFILL**

### **2.4.1 INTRODUCTION**

The Landfill at Waithlands does not contain on-site plant or infrastructure, gas and water monitoring is undertaken on a monthly basis from the 14 existing boreholes. The focus on site in recent years has been to monitor a steep embankment located to the North of the landfill where evidence of slope instability was observed for the past 5 years. The site also

contains a large buried culvert passing beneath the main landfill and operational area at approximately 20 meters in depth.

#### **2.4.2 BACKGROUND - EMBANKMENT**

During 2018-19 site investigation (SI) works were undertaken to obtain geotechnical data from a series of borehole and trial pits as no historical data existed for the site. Enabling works were required prior to SI, which included provision of new stone access road and ramp across the former landfill site, vegetation clearance was undertaken to middle and lower section of the slope in order to provide access for a borehole rig and associated machinery.

Prior to SI works commencing an ecological survey was undertaken to observe the presence of badgers at the proposed survey area. Findings from that report were then implemented to manage SI works under a Natural England Permit in order to protect local badger environments, all SI works were overseen by an ecologist. Further site clearance works to remove large unstable trees was also undertaken during this period.

Following conclusion of the above SI works and a period of borehole monitoring a desk top assessment was produced based on historical mapping and SI findings. This report provides a geotechnical risk assessment for the slope which has essentially recommended further intrusive ground investigations are undertaken to determine soil properties, and the characteristics of ground conditions.

#### **2.4.3 CURRENT POSITION**

Visual site inspections are undertaken on a weekly basis. For the remainder of this annual period a scope of works for the recommended intrusive survey, which is likely to be undertaken in spring 2020, will be defined.

A condition survey of the buried culvert beneath the site will be undertaken, a specialist confined space contractor has been appointed to enter the culvert and record its condition. Findings from this report will be used to determine whether repairs are necessary. A survey is scheduled for November 2019 subject to weather conditions at the time.

### **3. ASSET MANAGEMENT PLAN 2019-20 UPDATE**

Updates against the 2019 – 20 Asset Management Plan Action List are provided within Appendix A.

### **4. CAPITAL PROGRAMME UPDATE**

Updates against the 2018 – 22 capital programme are provided within Appendix B.