



Bulk Recovery Solutions

A.C.N. 148898754

16 Kerr Road
Ingleburn, NSW 2565

Phone: 87173366

Ref: SSD8593 OMP M Doyle approval.docx
23 July 2021

Ms Emma Barnet
Industry Assessments
Department of Planning Industry and Environment
PO Box 5022
Parramatta NSW 2124

Submitted by Major Projects Planning Portal

Dear Ms Barnet,

Ingleburn Resource Recovery Facility (SSD-8593)
16 Kerr Road, Ingleburn NSW 2565
Seeking Approval for Martin Doyle to prepare an Odour Management plan

We refer to the Development Consent SSD 8593 (Consent) issued by the Minister for Planning and Public Places on 26 May 2021. The Consent was issued to Bulk Recovery Solutions Pty Ltd for the construction and operation of a facility with the capacity to process up to 125,000 tonnes per annum of liquid waste. The facility is located at 16 Kerr Road, Ingleburn NSW 2565.

In accordance with Consent condition B11, BRS is seeking the Planning Secretary's approval of Mr Martin Doyle of NorthStar Air Quality Pty Ltd (NorthStar) to prepare the Odour Management Plan required in the same Condition

Attached is a copy of Martin's CV and NorthStar's Capability Statement for the Resources and Waste sectors for your consideration.

We look forward to receiving your approval, Meanwhile, if you wish to discuss the matter further, do not hesitate to contact me on any of my details provided below.

Yours Sincerely

Tim Baillie
Managing Director
Mobile: 0427 452 029
Email: tim@awe.com.au

Martin Doyle

Director

martin.doyle@northstarairquality.com

0447 452 777



qualifications

- PhD Air Quality Meteorology (University of East Anglia, UK, 2004)
- BSc (Hons) Environmental Science (University of East Anglia, UK, 1998)
- Certified Air Quality Professional (CAQP), Clean Air Society of Australia and New Zealand (CASANZ)

membership

- CASANZ NSW Branch Committee member 2007 - 2012
- CASANZ NSW Branch Training Activities Coordinator 2007 - 2012
- CASANZ Federal Deputy Chair Training Activities Executive 2008 - 2010

special expertise

Martin provides a range of expertise including:

- Air quality and greenhouse gas impact assessment
- Dispersion modelling studies including a range of specialist software
- Ambient air quality and meteorology studies
- Satellite remote sensing
- Geographical Information Systems (GIS)
- Indoor air quality and occupational exposure assessment
- Process & air pollution control due diligence and testing
- Odour impact assessment and audit
- Climate change impact assessment
- Expert testimony and witness
- Independent peer review and audit

background

Martin has almost 20 years of experience in the field of air quality, from academic research to public and private environmental consultancy. He completed his doctorate in 2004 in air pollution meteorology and was a Senior Research Associate at the University of East Anglia, which has the UK's highest rating for the quality of environmental research undertaken. His work has been included in UK Department of the Environment, Food and Rural Affairs Air Quality Expert Group state-of-science reports on PM₁₀ and NO₂.

His major areas of expertise include air quality monitoring (including monitoring network design and data analysis), emissions inventory development, atmospheric dispersion modelling (using TAPM, CALPUFF, AUSPLUME, CALINE and AERMOD), greenhouse gas assessment and climate change impact assessment, independent peer review and performance of audits.

Martin has significant experience across all sectors (see overleaf) and broad experience in assessment of air pollutants including odour.

Use of Geographical Information Systems (GIS) and other software to present data to non-specialists in easy to understand formats is one of Martin's key interests.

selected project experience



Agribusiness

- Intensive Poultry Facility, Peer Review, NSW
- Blayney Abattoir, NSW
- Bourke Small Stock Abattoir, NSW
- The Ranch Poultry Complex, NSW
- Abattoir and Rendering Plant, NSW
- Maylands Poultry Farm, NSW
- Milk Production Facility, NSW
- Serpentine Poultry Farm Expansion, WA
- Westmere Grains, VIC

Clients in this sector include: CAPRA Development, Dairy Farmers, Darmad, Saines Lucas Solicitors, Scolexia, Thomas Foods International Tamworth.



Resources & Waste

- Milbrae Quarries (Strontian Quarry), AQIA, NSW
- Sydney Trains Dunmore Quarry, AQIA, NSW
- Milbrae Quarries (Hillview Quarry), AQIA, NSW
- Albion Park Quarry AQMP, NSW
- Milbrae Quarries (Wallerroobie Quarry), AQIA, NSW
- Milbrae Quarries (Western Riverina Quarry), AQIA, NSW
- Albion Park Quarry Expansion AQIA, NSW
- Karuah South Quarry, AQIA, NSW
- Bangus Quarry, AQIA, Tumblong, NSW
- Ralston Quarry, AQIA, NSW
- Willowtree Quarry, AQIA, NSW
- Resource Recovery Facility, St Marys NSW
- Materials Recycling Facility, Operational Dust Management Plan, Padstow
- SUEZ Lucas Heights Leachate Treatment Plant, NSW
- 5R Solutions Glass Recycling Facility, NSW
- Traco Tyre Recycling Facility, NSW
- MET Construction Materials Recycling Facility, NSW
- Confidential, Integrated Mining and Waste Development, NT
- East Arm Waste Transfer Station Risk Assessment, NT
- Erskine Park Waste Transfer Station, NSW
- Bingo Waste Transfer Stations (St Marys, Mortdale), NSW
- Albion Park Quarry, NSW
- Glenfield Waste Services Materials Recycling Facility, NSW
- Kemps Creek Alternative Waste Treatment Facility, NSW
- Twinza Oil Project, PNG (GHG)
- Wafi Golpu Project, PNG (GHG)
- P'nyang Project, PNG (GHG)
- Freida River Project, PNG
- Mandalong Southern Extension Project, NSW
- Springvale Mine Extension Project, NSW
- Angus Place Mine Extension Project, NSW
- Lidsdale Siding Extension Project, NSW
- Airly Mine Extension Project, NSW
- Clarence Colliery REA V Project, NSW
- Northern Coal Logistics Project, NSW
- Neubeck Coal Project, NSW
- Karuah Quarry East Expansion Project, NSW
- Jandra Quarry Expansion Project, NSW
- Woodsreef Mine Rehabilitation Project, NSW
- Eastern Creek Organic Resource Recovery Facility, NSW
- Centennial Coal Company, PRP Assessments, NSW
- Peabody Energy, PRP Assessments, NSW
- Solomon Project, WA
- Carrow/Koppio Project, SA
- Area C Iron Ore Mine, WA
- Ace Landscapes Dust Management, NSW
- Redhill Waste Management Facility, WA
- Dromana Landfill, Mornington Peninsula, VIC
- Tropicana Gold Mine, WA
- Woodlawn Bioreactor Project, NSW
- Bigryli Uranium Exploration Project, NT
- Narrabri Coal Project, NSW

- Roy Hill Iron Ore Project, WA
- Glebe Island Bulk Sands Project, NSW
- Duralie Coal Mine Extension Project, NSW
- Cavehill Quarry, VIC
- Central Coast Sands, NSW
- Donalds Mineral Sands, VIC
- Brickworks (Client Confidential), VIC
- Sepon Gold and Copper Mine, Laos
- Werris Creek Coal Mine, NSW
- East Guyong Quarry, NSW
- Darling Downs Sand Extraction Project, QLD
- Belmont and Sunnyside Coal, NSW
- Whitehaven CHPP, NSW
- Wagga Wagga Sand and Gravel Extraction, NSW
- Roy Hill Iron Ore, WA
- Solomon Iron Ore Project, WA
- Leongatha Quarry Extension, VIC (GHG)
- Narrabri CSG Power Plant, NSW (GHG)
- Sunnyside Coal Project, NSW (GHG)
- Tyres4U Development Application, NSW
- Leppington Precinct Development, NSW
- Emerald Hills Development, NSW
- Trinity Point Marina Project, NSW
- South Orange Urban Release Area, NSW
- Warehouse & Distribution Facility, Chullora NSW
- Berrys Bay Marina Project, NSW
- Culburra STP, NSW
- Oakdale Central Development, NSW
- Oakdale West Development, NSW
- Acacia Ridge Campus AQ Investigation, QLD
- Wilton Junction Land Use Mapping, NSW
- Bungaribee Estate Data Centre, NSW
- Orange Pump Station No.1, NSW
- North Orange Pump Station, NSW
- Crowne Plaza Newcastle Brewery Odour, NSW
- Crowne Plaza Hunter Valley Brewery Odour Assessment, NSW
- P&N Beverages Odour Assessment, NSW
- Hurricanes Bar & Grill Odour Management, Darling Harbour, Bondi, Brighton-le-Sands, NSW
- Ridges World Square Schwartz Brewery Odour Audit, NSW
- Newtown Hotel Odour Audit, NSW
- Club Burwood, Smoking Balcony AQ Assessment, NSW
- Leppington Part Precinct, NSW
- Currarong Sewerage Scheme - CEMP audit, NSW
- Brooklyn Child Care Centre, NSW
- Emirates Wolgan Valley Resort - CEMP audit, NSW
- Fairfield RSL - Environmental Audit, NSW
- VOC Monitoring, Reserve Bank of Australia, NSW
- Great Barrier Reef Marine Park Authority, QLD (GHG)

Clients in this sector include: Ace Landscapes, Anglo Gold Ashanti, APP Corporation, BHP BIO, Boral, Centennial Coal Company, Cleanaway, Cleary Bros, Coffey International, Energy Metals, Environmental Earth Sciences, Environmental Property Services, EMRC, Erias Group, ExxonMobil, Fortescue Metals Group, Groundwork plus, Hanson, Holcim, NSW Department of Mines, Peabody Energy, Roy Hill Iron Ore, RW Corkerys, SUEZ Australia, Tellus Holdings Ltd, Veolia, Whitehaven Coal, Xstrata.



Property

- Modular Brewery, Odour Assessment, WA
- Eastern Creek Retail Park, Odour Advice, NSW
- Baked Provisions Odour Assessment, NSW
- Horsley Drive Business Park Warehouse and Distribution Facility, NSW
- Childcare Centre Air Quality Assessment, NSW
- Poultry Farm Odour Assessment, Austral NSW
- Marsden Park North Development, NSW
- Survitec Development Application, NSW

Clients in this sector include: ADW Johnson, Cardno, City of Sydney Council, Commercial & Industrial Property Group, Elton Consulting, Frasers Property Group, Geolyse, Goodman, Hosking Munro, JBA Planning, Meriton, Mirvac, QLD DPW, Shine Pre-School, Urbis, Worley Parsons.



Transport & Infrastructure

- Sydney Metro EIS Peer Review, NSW
- WestConnex Peer Review, NSW
- NorthConnex Peer Review, NSW
- Lower Main North Quadruplication Lite, NSW
- Epping to Chatswood Rail Line, NSW
- Enfield Intermodal Logistics Centre, NSW
- Northern Coal Logistics, NSW
- Capital Metro Stage 1 EIS, ACT
- Solomon Project Road Transportation Study, WA
- Sydney Harbour Bridge Lead Paint Removal Compliance and Verification, NSW
- North Ryde Transport Orientated Development, NSW
- Enfield to Chatswood Rail Line, NSW
- M1 Motorway Service Station, NSW
- Mitchell's Transportation Efficiency Project, WA
- Enfield Intermodal Logistics Centre, NSW
- M2 Upgrade, Sydney NSW
- Majura Parkway, ACT
- Clarrie Hermes Drive Extension, ACT

Clients in this sector include: Strathfield Council, Centennial Coal, EG Property Group, Fortescue Metals Group, Goodman, Hornsby Shire Council, Leightons Contractors, McDonalds Australia, Mitchell's, NSW Ports, P&N Beverages, Parsons Brinkerhoff, SMEC, Strathfield Council, Sydney Harbour Bridge Alliance, Transport for NSW, Urbis.



Industry

- Pre-cast Concrete Facility, Wetherill Park, NSW
- Concrete Batching Plant, Picton NSW
- Crematorium, Mayfield NSW
- Boral Kooragang Island Materials Recycling Facility, NSW
- Frenchs Forest Bushland Crematorium, NSW
- Boral Scoresby Opportunities and Constraints assessment, VIC

- BlueScope Steel PRP Assessment, NSW
- Pentarch Munitions Disposal Project, NSW
- Shoalhaven Starches Odour Audit, NSW
- Boral Granville Concrete Batching Plant, NSW
- Tuggeranong Crematorium, ACT
- Vopak Terminals PRP Assessment, NSW
- Eastern Asphalt Plant, Bairnsdale VIC
- Givaudan Odour Management, NSW
- Allens Asphalt, QLD
- SIMS Metal, QLD
- Metals Recycling Facility, NSW

Clients in this sector include: Austral Bricks, BlueScope Steel, Boral, Canberra Cemeteries, Environmental Property Services, Givaudan, Ignite Architects, Pentarch, Shoalhaven Starches, Vopak.



Energy

- Reeves Plains Power Station, SA
- Port Hedland Power Station, WA
- Solomon Project, WA
- West Qurna II Gas Field Development, Iraq
- Munmorah & Bayswater B Independent Peer Review, NSW
- Santos Fairview CS1&2 LNG, QLD
- Bamarang Power Station, NSW (including Plume Rise Assessment)
- Powergen, UK
- TXU Energi, UK

Clients in this sector include: Alinta Energy, Coffey International, Fortescue Metals Group, GHD, NSW Department of Planning and Environment, Infratil Energy, Santos.

publications

Rahaman F, Lawrence K, Starke G, Graham G & Doyle M, *Estimation of Odour Emissions from Broiler Farms – An Alternative Approach* Proceedings of the 21st Clean Air Society for Australia and New Zealand, Sydney 2013

Graham G, Lawrence K & Doyle M, *Development of Odour Impact Assessment Methodologies Accounting for Odour ‘Offensiveness’ or Hedonic Tone* Proceedings of the 21st Clean Air Society for Australia and New Zealand, Sydney 2013

Doyle M & Dorling SR, *Particulate Pollution: New Perspectives on Measurement, Source Apportionment and Policy*, Proceedings of the 5th Urban Air Quality Conference, Valencia, Spain, 2005

Doyle M & and Dorling SR, *Meteorological Classification and Aggregation Approaches in Support of Models-3 Air Quality Simulations*, Proceedings of the 4th International Conference on Urban Air Quality. Prague, Czech Republic, pp424-427, 2003

Chatterton T, Dorling SR, Doyle M et al. *A Rigorous Inter-comparison of Ground-level Ozone Predictions*, Atmospheric Environment 37, 3237-3253, 2003

Doyle M & and Dorling SR, *Visibility Trends in the UK 1950 -1997*, Atmospheric Environment, 36, 3161-3172, 2002

Doyle M & and Dorling SR, *Satellite and Ground Based Monitoring of Aerosol Plumes*, Water, Air and Soil Pollution, Volume 2, Numbers 5-6, pp615-629, 2002



Resources and Waste Capability Statement

Our preferred approach is to engage with clients at an early stage and provide our input to project design.

By integrating environmental performance goals (particularly the management of odour and dust) through the concept design and detailed design stages, Northstar Air Quality adds value to the project, and helps manage both planning and compliance risks.

This approach takes us a step beyond the 'traditional' impact assessment methodology (benchmarked impacts against air quality standards), and looks further at how project design can be shaped to maximise opportunities and minimise operational and commercial constraints that may be imposed through planning conditions resulting from a disconnected impact assessment.



Waste

- Landfilling
- Waste handling and processing
- Waste recovery and re-use
- Waste-to-energy
- Gasification and liquification
- Digestion and composting
- Landfill gas management
- Biomass
- Refuse derived fuels
- Nuisance investigation and management

Resources

- Coal
- Hard-rock
- Sand and aggregate
- Iron ore
- Precious metals
- Oil and gas
- Energy metals

We have experience in the resources and waste sectors across Australia, Europe, the Middle East and Southeast Asia, have provided due-diligence assessments for a wide range of processes, engaged with regulators on behalf of clients to qualify best practice emission controls, provided advice regarding the implementation of new techniques for waste-to-energy processes and mining emission control, and supported scores of clients through their project life-cycle, from concept design, through operational compliance to closure.

Our key objective
is to manage risks for the client, be those realised planning and licencing, or on-going compliance risk management.

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Our ongoing support
seeks to design and deliver comprehensive compliance assurance programs to manage regulatory risk.



Northstar Air Quality was founded in 2016 to provide an independent and innovative specialist Air Quality, Climate and Environmental Risk practice.

We offer expert air quality services for direct client commissioned work, and offer a specialist project delivery partnership for lead consultants forming multi-disciplinary teams, without creating any conflict of interests with the role of lead consultant.

Our services include

- Air quality impact assessment
- Dispersion modelling studies
- Environmental risk management
- Computational fluid dynamics
- Ambient air quality and meteorology
- Preliminary hazard assessment and risk assessment
- Indoor and occupational exposure
- Process and air pollution control review
- Greenhouse gas assessment
- Climate change adaptation
- Expert testimony and witness
- Peer review and editorial services
- GIS, CAD, data analysis and mapping
- Odour and dust management
- Air quality research and data management

Our mission is to become your preferred air quality service partner. We offer our services for direct client commissioned work in the following sectors:

AGRIBUSINESS	RESOURCES & WASTE	ENERGY	PROPERTY	TRANSPORT & INFRASTRUCTURE	INDUSTRY

