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Dear Glyn,

Central Precinct, St Marys – Salinity Assessment Review

1 Introduction

This letter report presents the results of salinity assessment review undertaken by Cardno for the proposed Central Precinct residential development located at St Marys, Sydney.

The aim of the assessment is to support a subdivision Development Application for the project. A review of the site history and background has been undertaken as a part of this assessment and comprised:

- Review of the published geological data and salinity maps.
- A review of the previous investigations undertaken at the site.

The following reports were provided for the purpose of this assessment:

- Water, Soil and Infrastructure report by SKM, May 2009 [1] St Marys Project, Central Precinct.
 As a part of this report, a salinity investigation was undertaken by Douglas Partners (DP) which included non-intrusive electromagnetic (EM) profiling and reporting.
- Three investigations were undertaken by Cardno which were mainly focused on subsurface conditions and groundwater sampling and testing. These reports are as follows:
 - Factual report on earthwork investigation or Central Precinct dated 09/05/2014. This
 investigation was undertaken to merely assess the subsurface profile within a small
 portion of the site for suitability of the future development.
 - Factual report on geotechnical investigation for Central Precinct, dated 29/07/2014.
 This investigation was undertaken to assess the soil permeability and other properties at the proposed location of potential future detention basins.
 - Factual report on installation of piezometers for Central Precinct dated 17/11/2014.
 This investigation was undertaken to provide further information regarding the hydrology of the site and groundwater contamination assessment.

While the factual reports prepared by Cardno provides valuable information regarding the site soils and groundwater conditions, the current assessment mainly utilises the findings of the SKM and DP reports which are more salinity focused.



2 Desktop Study and Site Investigations

2.1 Geology

Reference to Penrith 1:100,000 geological map (geological series sheet 9030) indicates that the site is underlain by:

- Quaternary aged deposits of fine grained sand, silt and clay which is located along the South Creek banks to the east and northern boundary of the site.
- Bringelly Shale Formation which forms the western portion of the site. This formation generally
 comprises shale carbonaceous claystone, laminate, fine to medium grained lithic sandstone and
 rare coal and tuff.

2.2 Salinity

A review of the Department of Infrastructure, Planning and Natural Resources: Salinity Potential in Western Sydney Map (2002) [2] indicates that the site is situated within an area of moderate salinity potential with areas high salinity potential present on site generally following the South Creek east-west trending tributary located north of the site.

2.3 Soil Acidity and Acid Sulphate Soils

A search of NSW Environment and Heritage NR Atlas data base revealed that the site is situated within an area with no known or low probability of occurrence. Based on our experience from the similar projects within the area, acid sulphate soils are not considered to be an issue and would not affect the development of the site.

2.4 Topography and Soil Landscape

Topographically the site is located within relatively flat trains associated with South Creek alluvial plains with the site slightly sloping up towards south where residual profiles are located.

Based on the Penrith 1:100,000 soil landscape map the site comprises two soil units including Luddenham (lu) and South Creek (sc) soil landscapes (SL). The location of the two SLs is almost identical to the geology of the site in that Luddenham SL is present alongside the Bringelly Shale formation and the South Creek SL follows the Quaternary aged alluvial deposits.

Reference to the salinity potential of western Sydney map, the areas with high salinity generally present within the South Creek SL and Quaternary aged deposits along the South Creek tributary. In addition, areas with medium salinity are present within the Luddenham SL and residual formations of Bringelly Shale to the west of the site.

2.5 Site and Regional Hydrology

SKM report indicates that two groundwater-bearing systems are present on site which are referred as shallow and deep aquifers. The shallow aquifer system is more-or-less fresh, relatively permeable, but

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only ephemerally saturated; while the deeper aquifers are tighter, permanently saturated and much more saline with salt content approaching that of sea water in places.

The salinity of the shallow aquifer at the site is less than 1,000 mg/L, which is consistent with the surface water salinity of 100 to 2,510 mg/L indicating that discharge from this aquifer maintains the surface water baseflow.

On the other hand, the maximum salinity recorded within the deeper aquifer was 8,000 mg/L with some values less than 1,000 mg/L encountered suggesting the mixing with fresh water from upper aquifer.

2.6 Site investigation

The information gathered during the SKM and DP site investigations have been obtained from:

- On-site conductivity testing carried out on 1:5 soil/water suspensions using a TPS water quality
 meter at 0.25m intervals at each test bore location. The results are attached in Table 5-2 (SKM
 report).
- Laboratory testing was conducted in the Department of Lands soil laboratory in Scone NSW on
 the soils samples collected by SKM at test bore locations at 0.25m intervals. The results of the
 analysis are extracted from DP report and are attached to this report (Table 1). This table also
 compiles the results of the field salinity testing.
- Assessment of the groundwater salinity in the piezometers previously installed by Mackie
 Martin in 1991with the results presented in Figure 5-10 of SKM report (this figure is of low
 quality in the provided copy of the SKM report and the results of testing is unclear).
- Electro-magnetic induction (EMI) or non-intrusive electromagnetic (EM) profiling as stated in the DP report 2008 was carried out across the Central Precinct area to measure ground conductivity.

2.6.1 Ground Conditions

Twenty three test bores were drilled to depth of 3m with three deeper bores drilled to 10m in May 2008 by SKM. Piezometers were installed in the three deeper boreholes and were screened at water level for the subsequent sampling and monitoring of groundwater. The location of the test bores along with the salinity contour plans derived from the salinity test results are attached (Figure 5-5, Figure 5-6, Figure 5-7 and Figure 5-8 of SKM report).

The investigation revealed that subsurface profile encountered within 3m deep test bores comprises yellow to brown clayey and fine sandy silt which grades to silty clay and clayey sand in some locations. The deeper test bores indicated that alluvial silty clays and clayey silts of stiff to hard consistency and low to medium plasticity extend to depths ranging from 5 to 8m. This alluvial layer is underlain by 1-2m of residual clay derived from shale bedrock and shale respectively.



2.6.2 Soil Salinity Results

Results of analytical testing of the soils at the site were compared to the following guideline values derived from of Department of Land Water Conservation NSW, 2002: Site Investigations for urban salinity [3].

It is noted that the values provided in Site Investigations for urban salinity [3], were derived for agricultural purposes although are considered appropriate when used in conjunction with the soil aggressivity values outlined further in this report.

The adopted criteria are listed in Table 1 below.

Table 1. Salinity Class Assessment Criteria in Soil

Class	EC _e (dS/m)
Non- saline	<2
Slightly saline	2-4
Moderately saline	4-8
Very saline	8-16
Highly saline	>16

Notes to table:

A multiplication factor has been used for calculation of the EC based on the material types. The conversion factor has been adopted based on the Table 6.1 of Department of Land Water Conservation NSW, 2002: Site Investigations for urban salinity.

Based on the summary of the analytical results presented in Table 1 attached (extracted from DP report), considering the adopted guideline criteria and 0.25m depth intervals:

- Depth 0.25 m, with ECe ranging from 1.4 dS/m to 6.8 dS/m, equating to 19% non-saline, 54% slightly saline and 27% moderately saline.
- Depth 0.5 m, with ECe ranging from 1.4 dS/m to 5.6 dS/m, equating to 27% non-saline, 50% slightly saline and 23% moderately saline.
- Depth 1.0 m, with ECe ranging from 1.4 dS/m to 6.5 dS/m, equating to 23% non-saline, 50% slightly saline and 27% moderately saline.
- Depth 3.0 m, with ECe ranging from 1.4 dS/m to 6.4 dS/m, equating to 30% non-saline, 26% slightly saline and 43% moderately saline.

No direct correlation between material properties or origin and the salinity is evident; however, the samples that indicated slight or moderate salinity were generally obtained from greater depths.

The results indicate that the site soils salinity ranges from non-saline to moderately saline. Increase in accumulation of the salts with depth correlates with the salinity of the site aquifers.

2.6.3 Electromagnetic Soil Testing

The electromagnetic induction (EMI) survey was carried out across the site by DP on May 2008 with the results of the assessment presented in the DP report attached to SKM report.

^{1.} Based on Table 6.2 of Department of Land Water Conservation NSW, 2002: Site Investigations for urban salinity.



The survey results indicate low apparent conductivities (ECa) ranging from 60 to 100 ms/m near to the gullies and low lying areas on the alluvial terrace surface. Higher conductivity results were surveyed at more elevated site areas ranging from 100 to 200 ms/m. Overall, the survey results indicate that the site soils are non-saline to slightly saline, however, greater variability was observed compared to the field salinity measurements by SKM (Table 5-2). The reason for this discrepancy was summarised in SKM report to be the difference of depths at which the results were collected (SKM depths of investigation was to a maximum depth and the EMI survey was to a depth of 6m). In addition, a number of other factors affect the EMI results including variation in mineral content, moisture content of clay, presence of lateritic ferruginous gravel and presence of saline waters at depths below 3m which was outside the depth investigated by SKM.

2.7 Aggressivity

This section provides assessment criteria to assess the exposure classification for a steel piles and concrete piles and is considered applicable for other buried concrete structures.

2.7.1 Exposure to Steel Piles

The results were compared to the following Table 6.5.2(C) in Section 6 of Australian Standard (AS) 2159 - 2009: Piling Design and Installation [4]. A Soil Condition B for low permeability soils (such as silts and clay soils) or all soils above groundwater was adopted for assessment as being representative of the onsite conditions.

The classification system is presented in Table 2 below.

Table 2. Exposure Classification for Steel Piles in Soil

pH	 Chlorides (CI) in Soil (ppm)	Resistivity (Ω cm)	Exposure Classification Soil Condition B
>5	<5,000	>5,000	Non-aggressive
4-5	5,000-20,000	2,000-5,000	Non-aggressive
3-4	20,000-50,000	1,000-2,000	Mild
<3	>50,000	<1,000	Moderate

No laboratory analysis was undertaken to assess the resistivity or chloride values and as such the aggressivity has been assessed based on the pH values presented in Table 1 attached (extracted from DP report).

On the basis of the pH results of the samples collected by SKM, all samples could be classified as non-aggressive to steel structures. However this should be confirmed by measurement of the Chloride and Resistivity parameters.

2.7.2 Exposure to Concrete Piles

The results were compared to the following Table 6.4.2(C) in Section 6 of Australian Standard (AS) 2159 - 2009: Piling Design and Installation [4].

A Soil Condition B for low permeability soils (such as silts and clays) or all soils above groundwater was adopted for the assessment as being representative of the on-Site conditions.



The classification system is presented in Table 3 below.

Table 3. Exposure Classification for Concrete Piles in Soil

рН	Sulfates (SO ₄) in Soil (ppm)	Exposure Classification: Soil Condition B
>5.5	<5,000	Non-aggressive
4.5-5.5	5,000-10,000	Mild
4-4.5	10,000-20,000	Moderate
<4	>20,000	Severe

No laboratory analysis was undertaken to assess the sulfates values in soil and as such the aggressivity to concrete structures has been assessed merely based on the pH values presented in Table 1 attached (extracted from DP report). Based on the pH results, all the samples classified as non-aggressive with the exception of three samples which were classified as mildly aggressive. However this should be confirmed following measurement of the sulfate content.

3 Comments and Recommendations

The relevant guidance to development in saline soils, at the Site, is outlined in the following documents:

- Western Sydney Regional Organisation of Councils Ltd (2003, Amended 2004) Western Sydney Salinity Code of Practice [5];
- Department of Infrastructure, Planning and Natural Resources (2003): Building in a Saline Environment [6];
- Department of Infrastructure, Planning and Natural Resources (2003): Roads and Salinity [7];
- Department of Infrastructure, Planning and Natural Resources (2004): Waterwise Parks and Gardens [8].

With reference to the recommendations of the management of saline soils, outlined in Site Investigations for Urban Salinity [3] and the proposed developments to be undertaken on-Site, it is considered that minimal disturbance of saline soils would be expected. It is recommended that the management options recommended for the proposed development in the SKM Water, Soil and Infrastructure report [1] summarised in Table 5-4 attached be used for the Central Precinct development. In addition, the following site management considerations are recommended by Cardno based on the site characteristics and experience from similar developments.

3.1 Erosion and Dispersive Soil

Prior to earthworks, appropriate site surface drainage and other measures shall be implemented to prevent ponding and scouring during the construction. These measures should include temporary drains, surface grading along with erosion and sediment control, and should be appropriately reinstated following construction.



Dispersive soils are susceptible to erosion with these properties of soil can be evaluated by undertaking laboratory testings such as Emerson Class and Exchangeable Sodium Percentage (ESP). While it is understood that these laboratory analyses were not undertaken as a part of the previous investigations, based on experience from similar sites in the area, it is expected that the Central Precinct soils are susceptible to erosion. The dispersion potential can be ameliorated by regimented compaction and moisture control during fill placement.

As such, a significant reduction in the risk of erosion following moisture / density control during the earthworks is expected. Nonetheless, the soils should be covered by a suitable thickness of topsoil to further reduce the risk of erosion and the formation of a sodic crust which may inhibit vegetation growth. Suitable vegetation protection should be established together with the provision of adequate drainage and where the soils are exposed, other appropriate protection measures should be employed. Appropriate surface drainage should be installed to intercept and reduce the velocity of up-slope overland surface flows and to restrict overland surface flows onto adjacent areas where practical. All collected stormwater should be appropriately detained in on-site storage or detention basins and discharged in a controlled manner.

3.2 Earthworks

It is noted that the construction of the Central Precinct development is proposed to comprise placement of a fill platform over the site and as such minimal disturbance to the underlying saline soils is expected.

Where excavation of the site soils is proposed, particular care must be taken to avoid the reversing or mixing the soil profile. This effect will negatively impact on the salinity profile i.e. increasing the salinity from slightly saline to moderately saline. The excavation and placement of in situ material of moderate salinity could be coordinated with the excavation of non-saline to slightly saline material of similar consistency and origin from other areas of the site at similar depths. This should have the effect of reducing overall salinity into the slightly saline category. As the salinity increases with depth in the Western Sydney Basin, residual clays and shale excavated from depths generally in excess of 1m should be replaced in their original order in which they were removed.

The same methodology applies to the imported fill material to the site in that slightly saline soils should be placed in the bottom fill layers and non-saline soils placed in top layers of the embankment. The fill material should be assessed by a geotechnical engineer prior to the importation to the site and is expected to comprise the following:

- Classified as Virgin Excavated Natural Material (VENM) in accordance with the NSW DECC Waste Classification Guidelines Part 1 - Classifying Waste [9], or Excavated Natural Material (ENM) as per the Protection of the Environment Operations (Waste) Regulation 2005 The Excavated Natural Material Exemption 2012 [10].
- Non saline to slightly saline soils which are not aggressive to slightly aggressive to concrete and steel structures.
- The material to be placed within the residential allotments to comprise low reactivity soils.
- To be free of organic matter or any other deleterious material and not containing acid sulphate soils.



3.3 Construction Requirements for Areas with Salinity Potential

3.3.1 Landscaping

The following precautions should be adopted in the landscape plan:

- Where planting is required in discharge areas then salt tolerant species should be chosen.
- Use low water requiring species in gardens and landscaping.
- Adopt carefully designed irrigation systems to prevent over watering and appropriate maintenance to minimise the potential for leaks.
- Use mulching in landscaped areas to minimise evaporation and reduce irrigation requirements.
- Use non-saline soils in landscaped areas where practicable.

3.3.2 Stormwater and Drainage

The following should be considered in the design of stormwater and drainage systems:

- The design slope of exposed / open concrete slabs and surrounding areas should be designed to minimise ponding and the potential for increased infiltration.
- Drainage systems should be designed to minimise leakage and infiltration.
- As far as practicable the natural drainage patterns at the site should be maintained.

It is understood that the future residential structures and underground services will be predominantly placed within the imported fill material and subject to importation of suitable material, salinity, aggressivity and sodicity is not expected to impose risk to these structures. As a precautionary measure, consideration to the following should be adopted:

- Install a properly constructed damp proof course beneath buildings, paths and driveways.
- Using 'exposure quality bricks'.
- Using polybutylene or polyethylene pipes for water supply.
- Using polyvinyl chloride pipes for plumbing and stormwater utilities.

Yours faithfully

Alireza Mohiti

Geotechnical Engineer

A. Statut Adia

For Cardno

Attachments:

Table 5-2 and Table 5-4 (SKM report)
Table 1 from DP EMI report

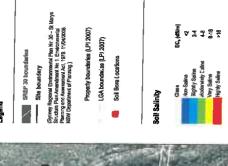
Figure 5-5, Figure 5-6, Figure 5-7 and Figure 5-8 of SKM report

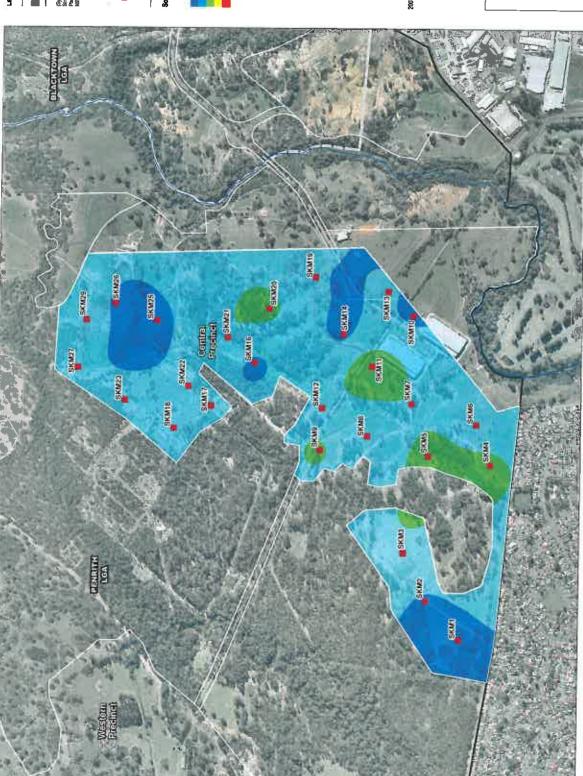


Table 5-2 Summary of Soil Salinity EC_e (dS/m) Results

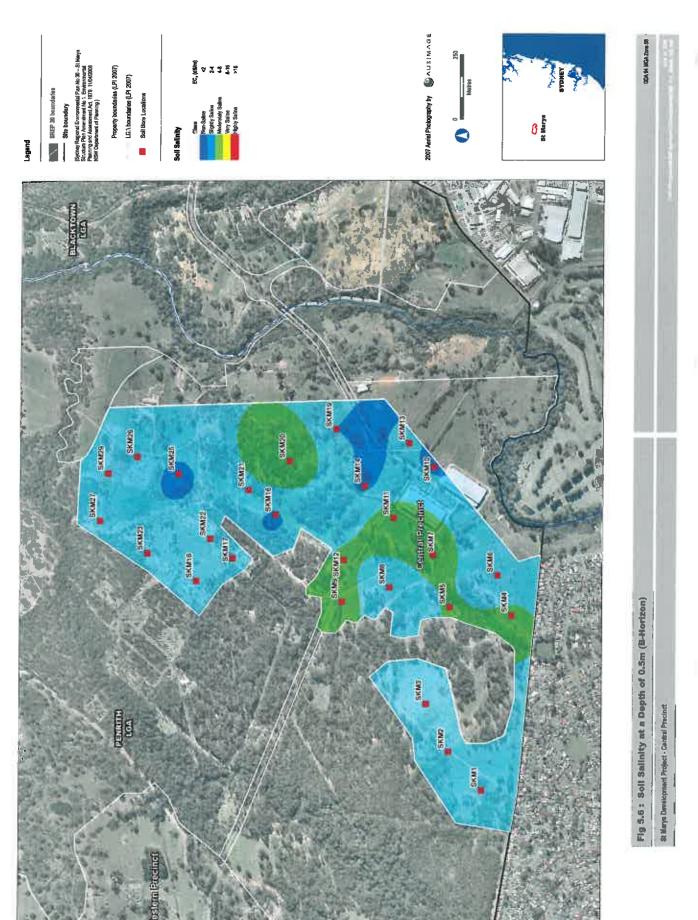
Soil Bore	Depth (m bgl)	EC. (dS/m)	Soil Bore	Depth (m bgl)	EC. (d\$/m)	Soil Bore	Depth (m bgi)	EC. (dS/m)	Soil Bore	Depth (m bgl)	EC. (dS/m)
	0.25	2.3		0.25	5.2		0.25	1.5		0.25	2.5
	0.5 0.75	1.7 2.2		0.5 1	3.9		0.5	1.5		0.5	2.2
	1	5.0	SKM7	1.5	4.6 3.7	SKM16	1 1.5	1.5		0.75	2.2
	1.25	2.6	Olden	2	4.4	SVINID	2	1.5 1.5		1	2.4
SKM1	1.5	2.1		2.5	3.7		2.5	1.5		1.25 1.5	2.4 2.1
SKIVII	1.75	3.5		3	4.3		3	1.6	SKM23	1.75	2.1
	2	2.3		0.25	1.8		0.25	2.5		2	2.5
	2.25	2.8		0.5	2.0		0.5	2.3		2.25	4.1
	2.5 2.75	3.1 6.6		0.75	1.9		1	2.6		2.5	4.4
	3	5.9		1 1.25	2.2 2.1	SKM17	1.5	2.7		2.75	4.7
	0.25	2.4	SKM8	1.5	2.4		2 2.5	2.3 1.8		3	4.4
	0.5	1.7		2	2.5		3	1.8		0.25 0.5	1.4 1.4
SKM2	1	2.8		2.25	2.3		0.25	2.6		0.75	1.4
	1.5	2.9		2.5	2.1		0.5	3.2		1	1.4
	2	4.6		2.75	2.2		0.75	3.4		1.25	1.4
	0.25 0.5	3.6 3.9		3	3.0		1	4.3	SKM25	1.5	1.4
	0.75	4.1		0.25 0.5	5.0 4.2		1.25	4.1	J. III.	1.75	1.4
	1	3.6	_	0.75	4.2	SKM18	1.5 1.75	3.6 4.3		2	1.4
	1.25	3.9	SKM9	1	3.9		2	2.6		2.25 2.5	1.4
SKM3	1.5	4.1		1.25	3.7		2.25	4.8		2.75	1.4 1.4
OLIVIA	1.75	3.8		1.5	4.3		2.5	7.0		3	1.4
	2	3.8		0.25	1.5		2.75	5.4		0.25	3.2
	2.25	3.6		0.5	1.5		3	50		0.5	1.9
	2.5 2.75	3.8 3.9	SKM10	1	1.6		0.25	2.0		1	1.8
	3	3.6	SKIVITO	1.5 2	1.6 1.6		0.5 0.75	2.1	SKM26	1.5	1.9
	0.25	4.6		2.5	1.6		1	1.9 1.9		2	1.6
	0.5	4.4		3	1.7		1.25	2.0		2.5 3	1.6 1.7
	0.75	3.9		0.25	5.5	Ol/saan	1.5	2.0		0.25	2.6
	1	4.6		0.5	5.6	SKM19	1.75	1.9		0.5	2.0
	1.25	5.9		0.75	7.2		2	1.7		0.75	2.7
SKM4	1,5 1,75	3.6 4.7		1 25	6.5		2.25	2.6		1	2.9
	2	4.0		1.25 1.5	5.7 5.9		2.5 2.75	2.5		1.25	3.3
	2.25	3.1	SKM11	1.75	5.3		3	2.6 3.1	SKM27	1.5	4.0
	2.5	3.9		2	6.1		0.25	6.8		1.75 2	3.6 3.4
	2.75	4.2		2.25	5.4		0.5	4.6		2.25	5.4 6.6
	3	3.1		2.5	5.2		0.75	4.4		2.5	6.2
	0.25	4.2		2.75	6.2		1	5.1		2.75	5.2
	0.5 0.75	4.7 4.6		3 0.25	5.3		1.25	4.2		3	6.4
	1	4.7		0.25	4.3 3.9	SKM20	1.5 1.75	8.4		0.25	2.5
	1.25	4.8		1	3.4		2	9.3 7.1		0.5 0.75	2.4
SKM5	1.5	8.9	SKM12	1.5	2.9		2.25	7.3		1	2.4 2.9
OINNO	1.75	7.5		2	4.9		2.5	6.4		1.25	2.6
	2	6.0		2.5	5.1		2.75	6.5	SKM29	1.5	4.0
	2.25 2.5	6.4 8.1		3	4.3		3	5.5	SKIVIZE	1.75	3.4
	2.75	6.6		0.25 0.5	2.3		0.25	3.4		2	3.4
	3	5.9		1	2.2 2.3		0.5 1	4.0		2.25	8.3
	0.25	2.2	SKM13	1.5	1.4	SKM21	1.5	3.9 4.7		2.5 2.75	6.3
	0.5	2.9		2	1.6		2	5.0		3	6.0 4.0
SKM6	0.75	3.3		2.5	1.6		2.5	4.5		J	4.0
	1	3.7		3	1.5		3	3.5			
	1.25	5.3		0.25	1.4		0.25	2.8			
	0. 25 0.5	5.2 3.9		0.5 0.75	1.5		0.5	2.2			
	1	4.6		1	1.5 1.5		0. 75 1	2.6			
SKM7	1.5	3.7		1.25	1.5		1.25	2.7 2.3			
	2	4.4	SKM14	1.5	1.5	OKNOO	1.5	2.2			
	2.5	3.7	ONIVI 14	1.75	1.5	SKM22	1.75	1.9			
	3	4.3		2	1.5		2	2.1			
				2.25	1.6		2.25	2.1			
				2.5	1.7		2.5	3.1			
				2.75 3	1.7 1.8		2.75	3.2			
				J	1.0		3	3.0			









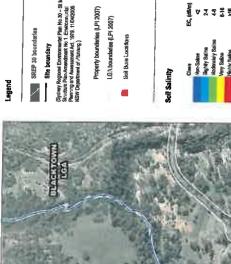


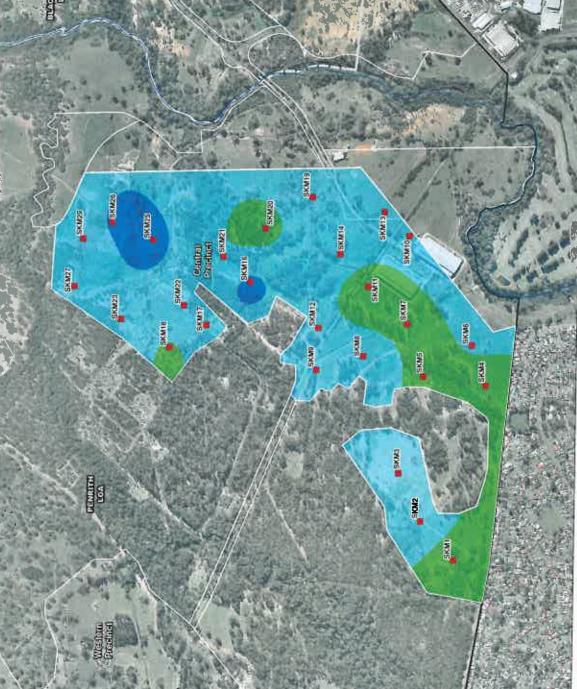






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Document Set ID: 8255629 Version: 1, Version Date: 25/06/2018 APPENDIX B
Table 1 – Salinity-Related Test Bore Data,
Lab Tests and Assessments

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TABLE 4: SALINITY-RELATED TEST BORE DATA, LAB TESTS AND ASSESSMENTS, PROJECT 45629, CENTRAL PRECINCT, ST MARYS

Salinity Class	[dapths<0.8m/depths>0.8m]	(Richards 1954)	Slightly Saline				Slightly Saline				Slightly Saline		Slightly Sallne		0	woodatasi Salline				Slightly Saline					Moderately Saline				Moderately Sallne					Moderately Saline				Marcharotoly Spline					Slightly Saline		Moderately Saline		Salve described of Confiden	Andread Francisco		Maragagasing	Water and Control of the Control of	
ECe Bulk	[depths<0	(dS/m)	2.8				3.5				2.0		3.4		2 4	2				3.8					4.4				4.1			i		6.5				65	1				2.5		4.1		4.5	2		14		
Sallnity Class		[Richards 1954]	Slightly Saline Non Saline	Slightly Saline Slightly Saline	Moderately Saline		Slightly Saline	Slightly Saline	Slightly Saline		Slightly Saline	Moderately Saline	Slightly Saline	Moderately Saline	Slightly Sallne	Mardenstaly Soline	Moderately Saline	Slighily Saline	Moderately Saline	Slightly Saline	Slightly Saline	Slightly Saline	Moderately Saline	Slightly Saline	Moderately Seline	Moderately Saline	Moderately Saline	Contract collect	Very Saline	The Control of the Co	Pledgraids, Californ	Kill Tonius	Software Collection	Olimbili, Online	Slightly Saline	Slightly Saline	Slightly Saline	STATE OF STREET	Moderately Saline	Slightly Saline	Slightly Saline	Moderately Saline	Slightly Saline	Moderatery courter								
ĘĘ,	[M x EC _{1.5}]	(dS/m)	1.7	22	2.6	2.5	2.3		89 st		2.4	2.8	2.9		3.6	4.1	3.6	4.1	3,8	3.8	3.6	3.9	3.6	4.8	4.4	3,9	5.9	3.6	4.0	3.1	8.2	3,1	4.2	4.7	4.8	4.8	6.8	200	6.4	£.69	5.9	2.0	2.9	3.3	3.7	0.0	5.2	3.9	3.7	4.4	3.7	5.4
EC _{1,3}		(InS/cm)	187	259	308	413	272	360	390		168	306	317		255	296	52,2	293	269	289	22.5	280	254	512	492	\$ 5	655	\$	440	364	483	368	485	522	513	533	991	671	707	613	592	2/4	320	329	374	220	607	462	438	518	436	ans
Textural	Factor (M)	after OLWC	5 05	100 a	80.55	0 00 00	30 ¢	8,5	17		4 0	6	o !:		4 2	14	4 5	14	14	7 7	4 5	1 4	14	2	6	on (0	33 (00	8.5	85	8.5	G.	o	51 0		61	on on	ō	5 5	ည	٥	0	10	o t	2	8,5	85 a	9.5	8.5	00 to	0.0
Soi! Texture Group		1	Ш		Ш		П	Ш	Sand		Sandy toam	Clay loam	Cay loam	Н	Sandy loam	Н	Sandy loam	Н	Sandy loam	Clav loam	Clay loam		Clay joann		Clay Joan		Light Cav	Light clay	Clay Icam	Clay loam	Clay tour	Clay tourn			Clay toam:	Cerm	Loam	Clay roam	Clay loam	Loam	Loam	200000	Light clay	Light day	Light day	Light day	Light clay	Light way				
Soll Aggressivity	To Steel	(ASZ158 pH chiera)	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive Non-Aggressive		Non-Aggressive		Non-Aggressive		Non-Aggrassive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non Apgressive	Non-Aggrassive	Non-Andreasive	Non-Aggressive		Non-Appraisaive	Non-Aggressive	Non-Aggressive	Nor-Aggressive Non-Aggressive	Non-Aggressive	Non-Aggregalve	Non-Aggress:ve	No.1-Appressive	Non-Aggrestive	Non-Aggressive	Non-Acgressive	Non-Aggressive		Non-Aggressive	Non-Aconessive	Non-Aggressive	Non-Aggressive	\rightarrow	Non-Aconessive	-	_	Non-Aggressive	Daise R. C. Lore	Non-Aggnessive	Non-Aggressive	Non-Aggnussive	No:-Aggresuive	Non-Aggressive	BANGS BANGS BANGS
Soll Agg	To Concrete		Non-Aggressive	Non-Addressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive Non-Aggressive		Non-Aggrecsive	Non-Aggmesive	Non-Agenessive		Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Nan-Aggressive	Non-Aggressive	Non-Appressiva	Non-Acquessive	Non-Appressive	Nor-Aggressive	Non-Aggressive	Non-Augnessive	Non-Agueraive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Angelessive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Aggressive	Non-Appropries	Non-Aggressive	Non-Aggressive	Non-Addressive	R	Non-Aggress:ve	Non-Appressive	Non-Aggnessive	Non-Aggrassive	Non-Aggrossive	- Name BRO 100
Soil	Condition	BC 700	000		600	000	600	60	« «		< 20	8	n <		< <	4	<	<	4	< <	<	< A	V	6	æ		8					8	8	60		_			<u></u>	-	æ	-		a (60	2 6	9	æ		
표		9	P.9	9.2	6.4	6.9	7.2	6.1	6.6	ļ	9 6	5.3	6 7		8.9	8.8	5 60	8.5	6 7	20 00	2	8.8	82	7.6	7.5	4.4	7.2	0.7	7.5	9,7	7.7	4.6	7.3	7.2	74	7.3		7.7	2.3	8.4	7.2	8.2	9.3	9.4	7		7.9	9, 68	7.9	0.0	2 7	
Sатрlе	٥		0.50	90	1.25	1.75	2.00	2.50	3.00	000	0.50	1,00	2.00		0.50	0.75	1,25	1.50	1,75	2,55	250	2.75	300	0.25	929	100	1.25	130	2.00	2.25	2.75	3,00	0.25	0.50	1.00	1.25	2 4	2,00	2,25	2.75	00	0.25	0.50	0.75	25.5		0.25	1 00	1.50	2.00	3.50	
	R A	(All Marky)																																																		
Coordinates	nt North	6284530								0104074		-		9000	0204100									8264424									6254668									6264480					6264735					
	East	290742								000000				004070	-									291422									291455									SKM6 291579					291658					
Teat	Bore	SKM1								07470	GIVING			07474	CONTRO									SKM4									SKM5									SKMB					SKM7					

г		П	_															
Sulinity Class	[depths<0.8m/depths>0.8m]	[Richards 1954]	Non Saline	Slightiv Saline	Moderately Saline	Moderately Saline	Non Saline	Non.Saline	Very Saline	Moderately Saline	Moderately Saline	Moderately Selline	Slightly Saline	Non Caline	Non Saline	Non Saline	Non Saline	Non Saline
ECe Bulk	[depths<	(m/Sp)	1.9	2.4	4.7	4.1	1.5	1.6	8.4	7 9	4.1	14	2.3	7	1.5	1.6	1.5	4
Salinity Class		Richards 1954] Non Saline	Non Saline Non Saline	Slightly Saline Slightly Saline Slightly Saline Slightly Saline Slightly Saline Slightly Saline Slightly Saline Slightly Saline	Moderately Saline Moderately Saline	Moderately Saline Slightly Saline Slightly Saline Moderately Saline	Non Saline Non Saline	Non Saline Non Saline Non Saline Non Saline Non Saline	Moderately Saline Moderately Saline Moderately Saline	Moderataly Saline	Moderately Saline	Slightly Saline Slightly Saline Moderately Saline Moderately Saline	Slightly Saline Slightly Saline	Slightly Saline Non Saline Non Saline Non Saline Non Saline	Non Salino Non Saline Non Saline	Non Saline	Non Saline Non Saline	Non Saline Non Saline Non Saline Non Saline
, S	≥	(dS/m)	1.9	22 22 22 24 22 22 22 22 22 22 22 22 22 2	\mathbf{H}	4.4 3.9 3.7 4.3	3.	8 8 8 7 7		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3.4 4.9 4.3 4.3		23.7	15	संस्था का का र र का	د کا کا	v v v v v
EC ₁₃	[lab.]	(us/cm)	228	275 275 275 234 234 333	360	316 281 304	169	173 181 186	615 617 795	693 693 693 693 693 693	480	378 321 583 563	166	161 176 176 165	174	172 177 177 198 198 197 197	170	177 168 25
Textural	Factor [M]	85 85	20 80 C	n	14	2 2 2	8 0	න ශ ශ ශ භ	മെക	0 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5 5	0 0 0 0 0	14	\$ 00 00 00 00	8. 83 75 75	က ရောက်လေ လ ထိ သ ထ လ ရက်လေ လ လ လ လ သ	on un	3 3 7 5 5
Soil Texture Group	Control of the contro	Lantcav	Light clay	<u> </u>		Sandy loam Sandy loam Sandy loam	111	Clay loam Clay loam Clay loam Clay kard Clay kard	Clay loam Clay loam Clay loam	!	Ciay loam Clay loam	Ciay toam Clay toam Clay toam Cay toam	Sandy learn Sandy learn	Sandy Inam Clay loam Clay loam Clay loam Clay loam	Light clay Light clay	Light clay Clay tolan	Clay loam Clay loam	Clay loam Clay loam Clay loam Clay loam Clay loam
Soll Aggressivity	To Stee		Non-Addressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive		Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Nor-Aggressive Nor-Aggressive	Nur-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive	Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggrassive Nun-Aggrassive	Nor-Agressive Nor-Agressive Nor-Agressive Nor-Agressive	Non-Agaressive Non-Aggressive	Nutr-Addressive Nutr-Addressive Nutr-Addressive Nutr-Addressive Nutr-Addressive Nor-Addressive Nor-Addressive Nor-Addressive Nor-Addressive Nor-Addressive	Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive
Soll Age		Non-Aggressive Non-Agg	Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive	Nor-Aggressive Nor-Aggressive Nor-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive		Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive	NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE NOT-AGRIBESTVE	Non-Aggressive Non-Aggressive	
Sol	Condition	8	m a		< < <	< < <	m m m	00000	E E E	C C C C C C C C C C C C C C C C C C C	m m		Ш	(co co co co	$\Pi \Pi$			0 0 0 c
표		7.3	7.3	7.4 7.4 7.4 7.5 7.5 7.5	2.8	8.7	7.5	7.7 8.0 7.8 7.9		7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4	7.7	7.1	7.2	7.2	80 7.5 7.5 7.8 7.9 7.9	7.5	7.1
Sample	Depth (m)	0.50	0,75 1.00	2.25 2.25 3.00 3.00	0.25	1.30	0.25	2.50 3.00	0.25	1.25 1.50 2.00 2.25 2.25 2.25 2.25 2.25 2.25 2	0.50	3.00 2.2.50	0.25	2.00 3.00	0.50	32228228282828	1.00	2.50 2.50 3.00
	RIL (m. AHD)													8				
Coordinates	\Box	92			6265089		8264732		6264890		6265083		6264830		6265002		6265351	
	East North	291533			291477		292002		291803		291641		292095		291929		291817	
Test	Bore	SKMB			SKWB		SKM10		SKM11		SKM12		SKM13		SKM14		SKM16	

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Salinity Class	[depths<0.8m/depths>0.8m] (dS/m) (Rkshards 1954)	Slightly Saline	Slightly Saline	Moderately Saline	Moderately Sating	Slightly Saline	Silgbity Saling	Moderately Saline	Moderately Saline	Slightly Saline	Moderately Saline	Slightly Saline	Slighty Saling	Slightly Saline	Slightly Saline
ECe Bulk	[depths<0	2.4	2.3	4.3	4.6	2.9	22.2	5.5	ব্রত্ত	3.7	4.3	3.5	42	3.3	333
Salinity Class	(Richards 1954)	Slightly Saline Slightly Saline	Slightly Saline Slightly Saline Slightly Saline Non Saline Non Saline	Slightly Saline Slightly Saline Slightly Saline	Moderately Saline Moderately Saline Moderately Saline Silgnity Saline Silgnity Saline Moderately Saline Moderately Saline Moderately Saline Moderately Saline	Non Saline Slightly Saline Non Saline	Non Saline Slighty Saline Non Saline Non Saline Slighty Saline Slighty Saline Slighty Saline Slighty Saline	Moderately Saline Moderately Saline Moderately Saline	Moderately Salina Medanately Refins to the poly Refins to the poly Refins to the poly Refins to the poly Refins	Slightly Saline Slightly Saline	Slightly Saline	Sightly Satine Sightly Saline Sightly Saline	Signify Saline Silgnify Saline Silgnify Saline Non Saline Silgnify Saline Silgnify Saline Silgnify Saline Silgnify Saline Silgnify Saline Silgnify Saline	Slightly Saline Slightly Saline Slightly Saline	Silghty Saline Silghty Saline Silghty Saline Silghty Saline Silghty Saline Moderately Saline Moderately Saline Moderately Saline
EC	[M×EC, 6] (dS/m)	2.5	2.6 2.3 1.8		8 4 4 8 9 4 4 5 9 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9	2.1	20 20 1.8 1.7 2.5 2.5 3.1		2. 4. 89 89 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	3.4	3.9 5.0 4.5 3.5	2.8 2.6 2.6	222 1.222 2.33 2.21 2.33 2.21 2.33 2.21 2.33 2.21 2.33 2.33	1111	2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
EC ₁₃	[Lab.]	282	283 284 284 284 284 284 284 284 284 284 284	286 350 376	480 460 399 284 284 280 280 320 297	234 247	232 232 233 233 233 233 233 233 233 233	750 516 486	572 468 904 505 505 480 480 481	383	430 524 553 502 386	313 239 288	263 242 242 242 238 237 237 232 232 232 237 237 237 237 237	277 249 248	285 284 284 286 333 333 333 333 333 333 333 333 333 3
Textural	Factor [M] (after DLWC)	G (5)	31 dr dr dr dr	යා යා යා	8 8 8 8 8 8 8 7 1 1 1 1 1 1 1 1 1 1 1 1	GB GP G9	9 9 8 55 14 14 14 17 17	000	00 00 22 24 24 24 24 24 24 24 24 24 24 24 24	o. o.	6 6 5 5	3 G. G	აით თ თ თ <u>გ ≯ </u> ‡	වා වා ග	o o o o o o 4 4 4 4 4
Soil Texture Group	[after DLWC]	Clay loam Clay loam	Cisy loam Cisy loam Cisy loam Cisy loam Clay loam	1111	Clay loam Clay loam Clay loam Clay loam Clay loam Clay loam Sand Sand Sand		Cisy kern Cisy loam Light clay Cisy pern Sandy bern Sandy loam Sandy loam Sandy loam Sandy loam Sandy loam	1111	Clay (cem Sandy (cem Sandy loem Sandy loem Sandy loem Sandy loem Sandy loem Sandy loem Sandy loem		Clay loam Clay loam Clay loam Clay loam Clay loam		Ciay loam Ciay loam Clay loam Clay loam Clay loam Clay loam Sandy loam Sandy loam	Clay loam Clay loam Clay loam	
Soll Aggressivity	To Steel H criterla]	Non-Aggressive Non-Aggressive	NOR-AGGRESSIVE NOR-AGGRESSIVE NOR-AGGRESSIVE NOR-AGGRESSIVE	Non-Aggressive Non-Aggressive Non-Apgressive	NOT-Agressive	Non-Aggressive Non-Aggressive	Nor-Agressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive	NON-AGGESSIVE	Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Nor-Augressive Nor-Aggressive Nor-Aggressive	NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE NORT-AGGRESSIVE	Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive
Soll Agg	To Concrete [AS2159 pH	Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Nor-Aggressive Nor-Aggressive Nor-Aggressive	NOCAggressive NocAggressive NocAggressive NocAggressive NocAggressive NocAggressive NocAggressive NocAggressive NocAggressive	Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive	Nor-Aggressive Nor-Aggressive Nor-Aggressive Nor-Aggressive	Non-Agant sare Non-Agantsaive Non-Agansteive	Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive Non-Aggressive	Non-Aggressive Non-Aggressive Non-Aggressive	NOT-Aggressive Not-Aggressive Not-Aggressive Not-Aggressive Not-Aggressive Not-Aggressive Not-Aggressive Not-Aggressive Not-Aggressive
Soli	Candition [AS2159]	E	2 2 2 2	m = m	0 m m m m < < < <			60 60 60	D04444444	8 8	20022	000		Π	± € 5 € 6 € 6 € 6 € 6 € 6 € 6 € 6 € 6 € 6
돝		7.8	7.3	7.1	0000 0000 0000 0000 0000 0000 0000 0000 0000	7.7	4477777	7.2	84 4 5 7 7 7 2 3 8 4 4 5 5 8 5 5 5 6 5 5 6 5 6 5 6 5 6 5 6 5 6	7.8	7 7 7 9 6 7 7 7 9 6 9 7 9 9 9 9 9 9 9 9	6.7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6.8 6.8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Sample	Depth (m)	0.25	2.50	0.25	2.25 2.25 2.25 2.25 2.25 2.25 3.05	0.25	1.55 1.50 2.00 2.25 2.50 2.50 3.00	0.25	2.25 2.25 2.25 2.25 3.00 3.00	0.25	2.00	0.25 0.50	2.25 2.25 2.25 2.25 2.25 2.75 3.00	0.25	2.00 2.00 2.00 2.00 2.00 3.00
	RL (m AHD)														
Coordinates	North AGA94)	6265519		6265662		6285114		62 <u>65</u> 296		6265457		8285608		6265854	
	East	291648		291560		292150		292026		291914		291724		291868	
Test	Bore	SKM17		SKM18		SKM19		SKM20		SKM21		SKW22		SKM23	

				5		ALIAISSIAIGE HOD							2 0	L
Fact	Horn	ā	1							<u> </u>	í	oalinity class	ECe Bulk	Sallnity Class
٤	MGA94)	(mAHD)			Condition	5 0	o Stael		Factor [M]		[M×EC, a]		[depths<0	[dcpths<0 8m/depths>0.8m]
201079	8055793				M32139	A52 59	ASZ159 PH criterial	after DLWC;	[after DLWC]	(mS/cm)	(dS/m)	Richards 1954]	(m/Sp)	[Richards 1954]
21010		Ť	200	00 1	a	Non-Aggressive	Non-Aggressive	Light clay	8.5	186	14	Mon Soline		
l						Non-Aggressive	Non-Aggressive	Light clay	522	188		Non Salina	14	Nico Collec
		İ	2	4.0		Non-Aggressive	NON-Addressive	Light clay	8.5	187	4	Non Saline		
l			3 1	0	2	Non-Aggressive	Non-Aggres sive	Light clay	8.5	8	4	Non Saline		
			3 5	36		Non-Aggressive	Non-Aggrensive	Light clay	8.5	185	4	Non Saline		
l			3 4	200		NOT-AGCIBE LIVE	NOT-AGGRESSIVE	Light clay	8.5	22	14	Non Saline		
			9	, ,		Non-Aggressive	Non-Aggressive	Light clay	8.5	3		Non Salino		
	1		3	1.2	-	Non-Aggrassive	Non-Aggressive	Lioft clay	8.5	12		Non Collins	,	0
1			2.25	7.2	6	Non-Aggressive	Non-Augnesian	Light risky	8	34		Non Saline	*	Non Saline
-	-		2.50	2,0	6	Non-Aggressive	Non-Augresive	light day	2 2	3 20		Non Saline		
1			2.75	6.5	B	Nor. Aggressive	Nort-Augustonius	wah Hou	2.0	5 50	6	Non Saline		
			3.00	7.5	m	Non-Acquassive	Non-Administrative	and day,	200			Non Saline		
	4						DA GOOD POR	ARIS TIR.	e e		4	Non Saline		
292044	6265896		0.25	7.0	6	Non-Acoressive	Mon-Approaction	Cieviner		1				
			0.50	7.3		Non-Angressive	Non-parisoolise	TIBO CENT	» I		7.5	Slightly Sallne	3.5	Oliophii. Colino
			80.	7.7	2	DA GOOD REAL POOR	DAIGROS SECTION	C.dy JOB.T.	s	Ę	1.9	Non Saline	2.4	Bullec Amagno
		İ	2	1		A PARTIE BASENE	Nor-Aggresaive	Ciży iotim	ÇD.	201	1.8	Non Saline		
			200	,		NOT ASSIME	Non-Aggressive	Clay loam	8	210	1.9	Non Saline		
		Ī	330		B	Non-Aggregative	Non-Aggressive	Light clay	8.5	98	1.6	Non Saline	1.7	Non Saline
			200	2 6		Non-Aggressive	Non-Aggressive	Light clay	8.5	1 8	1.6	Non Saline	1	
	1	1	1	2		Non-Aggressive	Non-Aggressive	Light day	8.5	202	1.7	Non Saline		
201705	0000000	Ť	200											
200	_	1	27.0			Non-Aggressive	Non-Appressive	Ciay loam	on	287	28	Slobily Sollne		
		1	001	7.5		Non-Aggressive	Non-Aggressive	Ciav loam	6	228	200	Slightly Coline	3 6	Olloheli. Online
			970	7.5		Non-Aggressive	Non-Aggresaive	Clay loam:	6	280	27	Slightly Soline	7	Sugriny Saline
		1	3	4	8	Non-Aggressive	Non-Aggressive	Clay joann	σ	310	30	Clinhii Colina		
i		1	ç	7.0	8	Non-Aggressive	Non-Aggressive	Clay loam	0	380	15	Slightly Salling		
		1	3	7.0	8	Non-Angressiva	Non-Aggressive	Clay joann	3	9	1	Slightly Spling		
	1	1	1.73	7.0	a	Non-Angressive	Nor-Aggressive	Clav loam	0	307	9.0	Citability delline		
1		1	2.00	7.0	0	NorAggressive	Nun-Augressive	Clav toam	o o	Ě	2.0	Sugath Paline	1	S. C. Table
			2.25	6.7	A	Non-Aggrausive	Non-Adgressive	Sand	17	ş	T	Moderately Sering	,	Moderately Saline
Į		1	2.50	7.1	4	Non-Aggressive	Non-Addressive	Sand	47	CES	T	Moderately on the		
			2.75	8.6	۷	Ncn-Agg:essive	Non-Addressive	phen	1	286	200	Wuderalery Saline		
		1	99	6,6	4	Non-Aggressive /	Non-Aggressive	Sand	1,7	378	T	Moderately Saline		
204000	4	1									T	Modelately Salline	I	
200	OZGONOG			0/1		Non-Agglessive	Non-Aggressive	Clay topm	6	274	2.5	Slightly Salion		
		T	na i			Non-Adoressive	Non-Aggrassive	Clary loam	6	272	24	Slightly Solling	2.4	Slobite Sallo
l		1	200	7.9		Non-Augressive	Non-Aggressive	Clay joarn	8	289	24	Slichtly Spline	i	Billing Calling
-		Ì	3 3	cal		Non-Addressive	Non-Addressive	Clay toam	5	325	20	Sightle Saline		
l		†	9	à		Non-Aggressive	Non-Aggressive	Clay loam	6	<u>F</u>	2.6	Slichtly Saline		
		Ì	2	6.7	6	Non-Aggressive	Non-Aggressive	Clay loam	6	440	1	Slink Saline		
1		İ	0	2		Non-Aggress:ve	Non-Aggressive	Clay loam	6	383	3.4	Slinkly Saline		
		İ	200	6.1	2	Non Aggressive	Mch-Aggressive	Light day	8.5	988	3.4	Slightly Salloe	4.5	Moderately Selice
		İ	010			Non-Acquessive	Non-Approximative	Light clay	8.5	972	8.3	Van Solno	1	and a second
		1	200			Non-Aggressive	Non-Aggressive	Light day	5,5	741		Moderately Saline		
İ		1	27.70	3	8	Non-Aggrossive	Non-Aggrussive	Light clay	15.55	708	ſ	Moderately Saling		
		1	3.00	5	-	Non-Aggressive Non-Aggressive	Non-Aggnessive	Light clay	14:	473	Ī			
												くなっていることのできている		



Table 5-4 Salinity, Erosion and Sediment Management Strategy Overview

	OBJECTIVE	BENEFIT	CONTROL	DETAILS	MONITORING METHOD	MANAGEMENT METHOD
			MINIMISE IMPORTATION AND USE OF POTABLE WATER ONTO THE SITE	REUSE STORMWATER FOR IRRIGATION OF OPEN AREAS MINIMISE POTABLE WATER DEMAND		
	SALINITY CONTROL MINIMISE GROUNDWATER RECHARGE	PREVENT RISING GROUNDWATER TABLE LEVEL AND DEVELOPMENT OF SALINE SOIL PROBLEMS	REDUCE IRRIGATION REQUIREMENTS AVOID USE OF INFILTRATION PITS TO DISPERSE SURFACE WATER PREVENT LEAKAGE FROM WETLAND AND	ADOPT SMALL GARDEN/LAWN AREAS ESTABLISH LOW WATER REQUIREMENT PLANTS USE MULCH COVER USE LOW FLOW WATERING FACILITIES DESIGN STORMWATER SYSTEM TO NEGATE NEED FOR HOME SITE STORAGE DISPOSAL CONNECT ALI, DOWNPIPES DIRECTLY TO STORMWATER LINE ALL PERMANENT STORMWATER	INSTALL MONITORING BORE NETWORK	MONITOR GROUNDWATER TABLE LEVELS PERFORM REGULAR, RANDOM INSPECTIONS OF HOUSE SITES, AND VEGETATION AND GENERAL INFRASTRUCTURE AREAS
	SALINITY CONTROL		DRAINAGE FACILITIES	RETENTION STRUCTURES AND WETLANDS		
Document Set ID: 829 Version: 1, Version D	ENCOURAGE USE OF GROUNDWATER AS 55 629 SOURCE	MAINTAIN OR LOWER GROUNDWATER TABLE LEVEL	ENCOURAGE TREE PLANTING AND RETENTION, ESPECIALLY IN AREAS OF HIGHER RECHARGE	USE RETAIN NATIVE, DEEP-ROOTED, LARGE GROWING SPECIES		