



WHANGAREI
DISTRICT COUNCIL

Hikurangi Swamp Scheme Management Plan

Whangarei District Council



Creating the ultimate living environment

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Quality Management

Version	Reason	Date	By	Designation
001	Draft for comment	Nov 2010	V Kloosterman	VK Consulting Environmental Engineers Ltd
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Note

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1. Introduction

1.1. Purpose

This Hikurangi Swamp Scheme Management Plan (SMP) sets out operating and management procedures for the Hikurangi Swamp Scheme, as required by the resource consents issued by Northland Regional Council (NRC). The SMP addresses those matters for which information is currently available, or can be reasonably obtained, prior to its submission to NRC by 30 November 2010. The SMP also sets out a timetable for achieving all consent requirements by 30 May 2012, by which time a full SMP needs to be submitted to NRC.

The SMP is to be read in light of the terms and conditions of the resource consents granted by NRC. In the event of any conflict in meaning, or ambiguity, between the terms and conditions of the resource consents and the provisions in the SMP, the resource consents take precedence.

The overall purpose of the Hikurangi Swamp Scheme Management Plan will be to incorporate best practice, the requirements of the consents and any other associated documents in a comprehensive guide for the management of the Scheme. The full Scheme Management Plan will include a Floodway Riparian Management Plan, an Oxbow/Cut-off Channels Management Plan, and a Fisheries Management Plan.

1.2. Document Control and Review

1.2.1 Document Control

The SMP and any subsequent updates to any part of the document are issued to those listed on the Document Register. A record of changes will be listed on the Quality Management page with the version and release date.

Each of the individual sections and attachments may be independently issued.

1.2.2 Document Register

Copy No.	Holder	Organisation and (Function)	No. of Copies	Issue Date
1	Stormwater Asset Engineer (SAE)	Whangarei District Council (Owner/Manager/Consent Holder/General overview)	1	Nov 2010
2	Waste and Drainage Operations Supervisor	Whangarei District Council (Supervision of Scheme Operators)	1	Nov 2010
3, 4	Scheme Operator	Transpacific Ltd (Scheme Operators) after 1 Dec 2010	2	Nov 2010
5	Monitoring Manager	Northland Regional Council (Consent Authority)	1	Nov 2010

1.3. Consents

The Consent Holder and contracted Scheme Operators are responsible for taking such measures as are required to ensure that the scheme is operated in accordance with all resource consents. CON20031137501 has been issued by the Northland Regional Council for the following activities associated with the Hikurangi Swamp Scheme:

- (01) Water Permit:** To divert and dam floodwaters within the Hikurangi Swamp Scheme ("Scheme") control-banks (=stopbanks), canals, drains and floodgates.
- (02) Discharge Permit:** To discharge floodwaters over Scheme control-banks on to land and to water courses and rivers via flood control mechanisms within the Scheme.
- (03) Land Use Consent:** To use restore, manage and maintain existing dams, culverts, control banks and floodgates, and placement and use additional structures on the bed of the watercourses within the Scheme.
- (04) Land Use Consent:** To carry out excavation or disturbance of the bed of the water courses for the purpose of the free flow of water.
- (05) Water Permit:** To divert water from repaired control-banks.
- (06) Discharge Permit:** To discharge water from repaired control-banks.
- (07) Land Use Consent:** To undertake earthworks on the control-banks and berms adjacent to watercourses within the Scheme, including modifications to spillways.

The full resource consent is included in Appendix A.

1.4. Related Documents

The following are related documents required by the resource consent issued by NRC.

- *Riparian & Oxbow/Cut-off Channels Management Plan* (May 2011) Note: This plan combines 2 plans required by the resource consent.
- *Fisheries Management Plan* (May 2012)

1.5. Resource Consent Reference Documents

- *Hikurangi Swamp Major Scheme Volumes 1 and 2*. Northland Catchment Commission, 1968. (TRIM Record Numbers 07/40129 and 07/40130 respectively)
- *Hikurangi Swamp Scheme - Application for Resource Consents and Assessment of Effects on the Environment* MWH, May 2004. (TRIM Reference – To be advised)
- *Pump Station Operation And Maintenance Manuals*.
 - *Otonga, May 2008*: (Trim Record Number 08/48584)
 - *Ngararatunua, May 2008*: (Trim Record Number 08/46639)
 - *Okarika, May 2008*: (Trim Record Number 08/46612)
 - *Mountain, May 2008*: (Trim Record Number 08/46598)
 - *Junction, May 2008*: (Trim Record Number 08/46600)
 - *Te Mata, May 2008*: (Trim Record Number 08/46583)
 - *Tanekaha, May 2008*: (Trim Record Number 08/46574)
- *As-Built Plans*. (refer Appendix B)

- *Assessment of Effects on the Environment of the Hikurangi Swamp Scheme*. Hawthorn and Geddes, August 2009. (TRIM Record Number 09/72187)
- *Stormwater Business Continuity Plan*. Whangarei District Council, June 2008. (TRIM Record Number 08/48584)
- *Whangarei District Council's Health and Safety Procedures* (TRIM Record Number 10/102860)

2. Hikurangi Swamp Scheme

2.1. Scheme Description

The Hikurangi Swamp is located approximately 20 km north of Whangarei CBD, near Hikurangi. The northern extent of the Scheme is located where State Highway 1 (SH1) crosses the Whakapara and Waiotu Rivers. The southern extent is at Matarau Road (Lewis Bridge on the Wairua River). The Hikurangi Swamp Scheme area is approximately 5,670 ha.

The Whakapara and Waiotu Rivers join to form the Wairua River, which is the main river flowing through the Scheme area. The catchment above this confluence is approximately 320 square kilometres. The length of the Wairua River from this confluence through the Scheme area, to the Lewis Bridge, is approximately 12 kilometres.

Below the Lewis Bridge, the river runs for another 22 km before it cascades down the Wairua Falls, near Titoki Road towards the junction with the Mangakahia River, to form the Northern Wairoa River at Tangiteroria.

Figure 2.1 (Drawing C03 R2) shows the location plan of the Hikurangi Swamp Scheme.

Whangarei District Council currently manages the Scheme and day-to-day operations and maintenance are contracted to an external contractor, Transpacific Ltd.

2.1.1. The Drainage District and Catchment Area

The original drainage district and catchment area is defined in the Hikurangi Swamp Major Scheme Report Volume 1, 1968¹ which describes the Swamp and its surrounding catchment as:

"The three main tributaries the Waiotu River, Waiariki Stream and Whakapara River, draining an area of 124 sq. miles [321 square kilometres] join at the northern end of the swamp to form the Wairua River. Other tributaries totalling 57 sq. miles [148 square kilometres] join the Wairua River in the main swamp which has an area of 14,000 acres [5670 ha] so that at the outlet of the swamp in the south west the total catchment is 204 sq. miles [528 square kilometres] with a straight line length of the swamp of 5½ miles [8.8 kilometres] and river length of 14½ miles [23.3 kilometres]. There are also some 18,000 acres [7290 ha] of flats in tributary streams which will benefit from the works.

Below the swamp, the Wairua River flows for 3½ miles [5.6 kilometres] through a narrow valley with limestone rock outcrops and further downstream over a basaltic lava flow before cascading down the Mangere Rapids."

2.1.2. Scheme Components

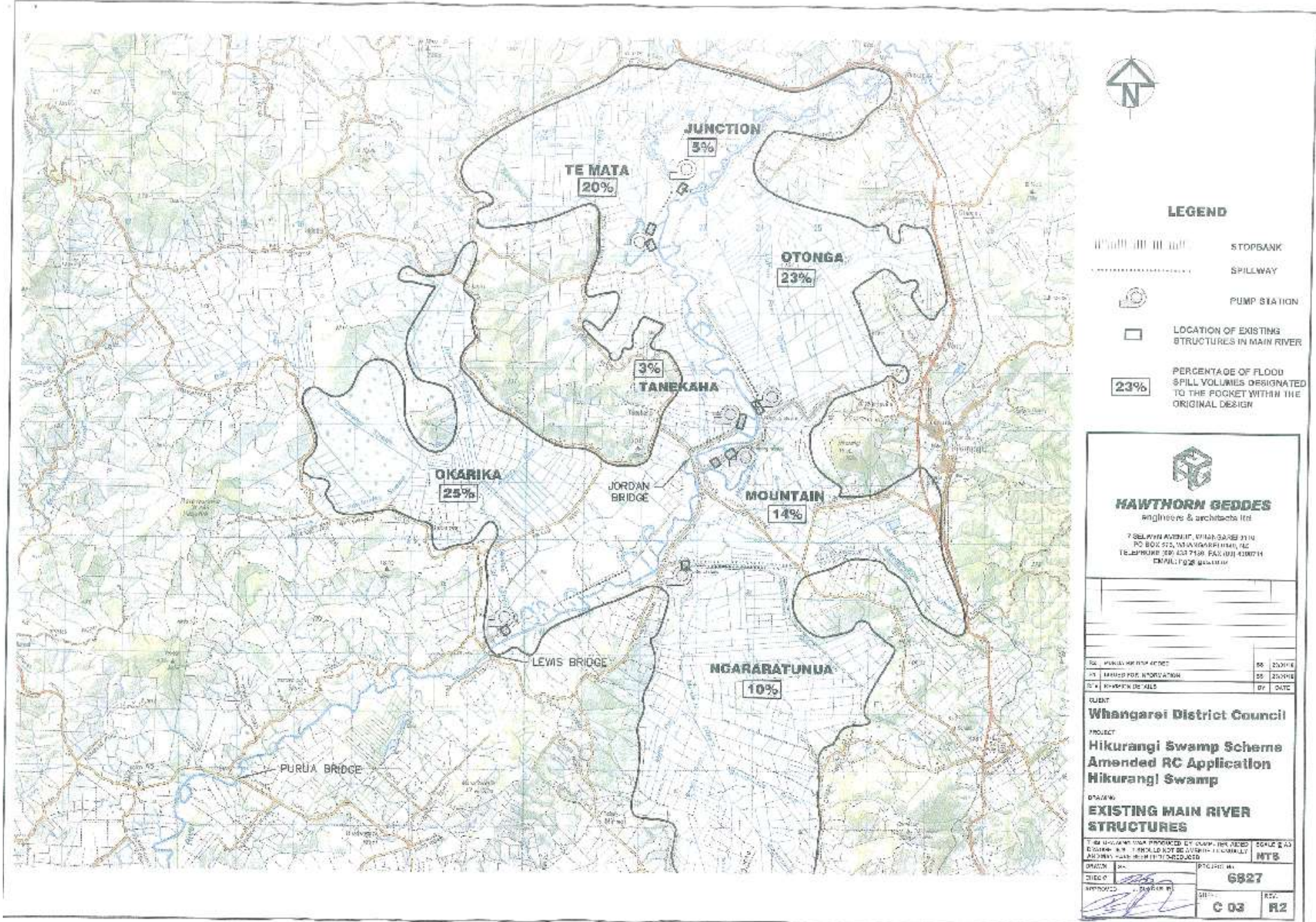
The Scheme Asset Register which includes a list of as built plans is included in Appendix B.

The Scheme components are described in the original report¹ as:

1. Limited improvements to the Wairua River downstream of the junction of the Whakapara and Waiotu Rivers.
2. Channel reconstruction of the Whakapara and Waiotu Rivers between the junction and State Highway 1.
3. Channel improvement of the Whakapara River above State Highway 1.
4. Construction of a floodway parallel to and north of the North Auckland Railway Line between Waiotu Bridge and Hukerenui.

¹ Northland Catchment Commission, 1968. *Hikurangi Swamp Major Scheme – Scheme Report, Vols I and II*

Figure 2.1 Scheme Location and Boundaries



5. Construction of control banks along the Wairua River between Lewis Bridge and the junction of the Whakapara and Waiotu Rivers and along those rivers as far as State Highway 1.
6. Construction of stopbanks linking the control banks with the hills and dividing the swamp into seven pockets.
7. Construction of seven pumping stations, one in each pocket.
8. Part reconstruction of the main drainage channels and diversion of some secondary channels where these will be blocked by the control banks.
9. Ancillary works.

The seven pockets of the Scheme are:

- Junction
- Te Mata
- Tanekaha
- Otonga
- Mountain
- Ngararatunua
- Okarika

Each pocket consists of a series of open drains serving low lying farmland leading to a pump station which discharges to one of the rivers. The hills surrounding the pockets comprise farmland and some areas of native bush and runoff from these areas drains to the pockets. The catchment areas contributing to the pockets are shown in Table 2.1. The locations of the pockets are shown in Figure 2.1.

Table 2.1: Pocket Catchment Areas

Pocket	Lowland Land Area (ha)	Upland Catchment Area (ha)	Total Catchment Area (ha)
Junction	275	170	445
Te Mata	919	1571	2490
Tanekaha	190	235	425
Otonga	943	1547	2490
Mountain	506	142	648
Ngararatunua	1619	2834	4453
Okarika	1182	3757	4939

2.1.3. Original Scheme Boundaries and Area of Benefit

The original scheme boundaries and area of benefit are described in the Hikurangi Swamp Scheme Report¹ as:

"The whole of the catchment of the Wairua River above the Mangere Rapids comprising some 216 sq. miles [560 square kilometres] was included in the rating districts defined in the N.Z. Gazette of 2 February 1967 (No. 4 page 136). It is proposed that the rating district for major scheme works shall be this same area. It will thus be possible in the future to avoid complications which could arise in carrying out catchment control work in parts of the catchment remote from the swamp but of benefit to it.

The flat valley land upstream of Lewis Bridge is approximately 30,000 acres [12,140 ha]. In association with this is approximately 2,000 acres [810 ha] of valley land in tributary streams which is affected by flooding, making a total acreage of scheme benefit of 32,000 acres [12,950 ha].

Some 16,400 acres [6,640 ha] or approximately half the total area does not benefit from scheme works themselves. For these lands to benefit additional works are required. These works will consist of channel improvements and drainage and will increase peak flows to the swamp. These additional peak flows are allowed for in the design.

Approximately 1,300 acres [526 ha] will be between control banks and 2,500 acres [1,011 ha] upstream of State Highway. The balance of 11,800 acres [4,775 ha] below the highway is land which will benefit most from scheme works."

The scheme boundaries and area of benefit are shown in Figure 2.1.

2.2. Scheme Purpose and Design Basis

2.2.1. Scheme Purpose

The Scheme was constructed in the early 1970s by the Northland Catchment Commission for the purpose of controlling floodwaters that regularly flooded farmland within the Hikurangi Valley.

Before the Scheme was built, flooding occurred when the inflow exceeded the capacity of the outfall channel and floods persisted on farmland for two to three weeks, particularly following heavy rain of three to four days duration.

The purpose of the scheme was to increase production from the Hikurangi Swamp. It was proposed to do this by reducing and controlling flooding in the swamp and the lower river flats of the Waiotu and Whakapara Rivers above State Highway 1 and also to improve drainage conditions in these areas to a standard acceptable for "*good present day grassland farm management*".¹

In addition the scheme enabled drainage of higher stream flats without endangering the lower areas.

2.2.2. Performance Objectives/Service Levels

The Scheme was aimed at reducing flood frequency and also reducing flood duration. The original aim was to give all protected swampland freedom from floods lasting longer than three days up a return frequency of five years.

The original Scheme design was that river flood flows in excess of a three day, one in five year design rainfall event would overtop the control-banks and flow into the seven pockets.

Calculations that were undertaken for the original design of the Scheme showed that flooding events of three-day duration were the most critical. Calculations also suggested that the control-banks as originally designed could contain approximately a five-year flood event. More recent assessment has shown that the Scheme, as it stands, contains floods with a 3 to 3.5 year Average Recurrence Interval (ARI) event without overflowing into the pockets.

Since establishment of the Scheme, a series of formalised changes, ad-hoc improvements and a **number of cyclonic storms raised questions about the Scheme's operation and performance, particularly** in relation to its original objectives, especially flood spill distribution. These issues were addressed during the consent process and the consent holder agreed to carry out revised calculations of scheme capacity using computer modelling tools including installing water level gauges to assist with calibration and carrying out a number of iterations to verify the modelling against actual stormwater flows and levels. This was the basis on which the current consent was granted. As outlined in section 4.2 water level measurement may be complemented or replaced by the use of aerial photography.

2.2.3. Design Basis

Control Banks

The function of the control banks is to protect the low swamp areas from flooding except during major floods, to provide storage for flood waters, to increase the water level and thus create more fall and to form a definite watercourse.

Control-banks are of earthen construction and are grassed. The height of the main control-banks varies from approximately 2 metres to 4 metres, and they have crest widths varying from 2.4 to 3 metres and batters varying from 3 to 1 to 2 to 1.

Stopbanks linking the control banks with the hills

The original scheme report¹ defines the purpose of the stop banks as being to *"prevent floodwaters flowing from the higher areas to the lower and causing flooding of different areas by the same water as occurs under present conditions, the swamp area will be divided into seven sections by means of stopbanks linking the control banks with the hills."*

These seven sections or pockets – Ngararatunua, Mountain, Otonga, Junction, Te Mata, Tanekaha and Otaika (refer Table 2.1) have separate drainage systems and pumping stations but the intent of the original design was that they would be affected to the same degree by the river water levels between the banks. The water quantities flowing into these sections via overflows (spillways) during major floods can be controlled by the length of overflows in the banks protecting the different sections.

The original design intent was that these quantities would be distributed in proportion to the quantities of water stored in the sections during flooding under pre-Scheme conditions. Because the overflows are a fixed and permanent feature of the scheme the distribution percentages have to be an average of different flood conditions. The water gradients of the river will differ for every flood and for every stage of a flood and the proportion of water quantities flowing over the bank will therefore never be constant.

The original Scheme Report¹ concluded that *"Only after observations during a long period (20 years from the completion of the Scheme) will it be possible to compare the predicted with the actual distribution resulting from the overflows as designed and constructed."*

Flood spill distribution between the seven pockets remains a key issue for the scheme and its stakeholders, and the recently granted resource consent sets out a mechanism and procedure for determining and adjusting flood flow distribution between the seven pockets. This is described in section 4.2.

Pumping Stations

The following is extracted from the original Scheme report.¹

"The swamp areas will not be flooded by river water as long as the control banks are not overtopped. However, runoff from the swamp itself and the surrounding hill country cannot be discharged into the river during high water levels and would cause flooding to almost the same extent as under present conditions.

For this reason pumping stations will be constructed in each of the pockets of the swamp area. These stations will be capable of discharging the runoff from the surrounding flats and hill country during rains storms of up to 5 years frequency. During major storms the banks will be overtopped and pumping would not avoid flooding although as soon as the river water level drops, pumping will reduce the durations of flooding considerably.

The capacity of the pumping stations is based on the fact that when the flood duration exceeds approximately 3 days under warm and humid summer conditions the grass will be killed and regrassing required.

To keep the flood duration during rain storms of up to 5 years frequency below 3 days, the pumps should have a capacity sufficient to discharge a runoff of 0.85"/day [21.6 mm/day] from the swamp areas and hill country.

The maximum rate of pumping for the original Scheme design, for the currently installed pumps and for the proposed upgraded pumps is shown in Table 2.2.

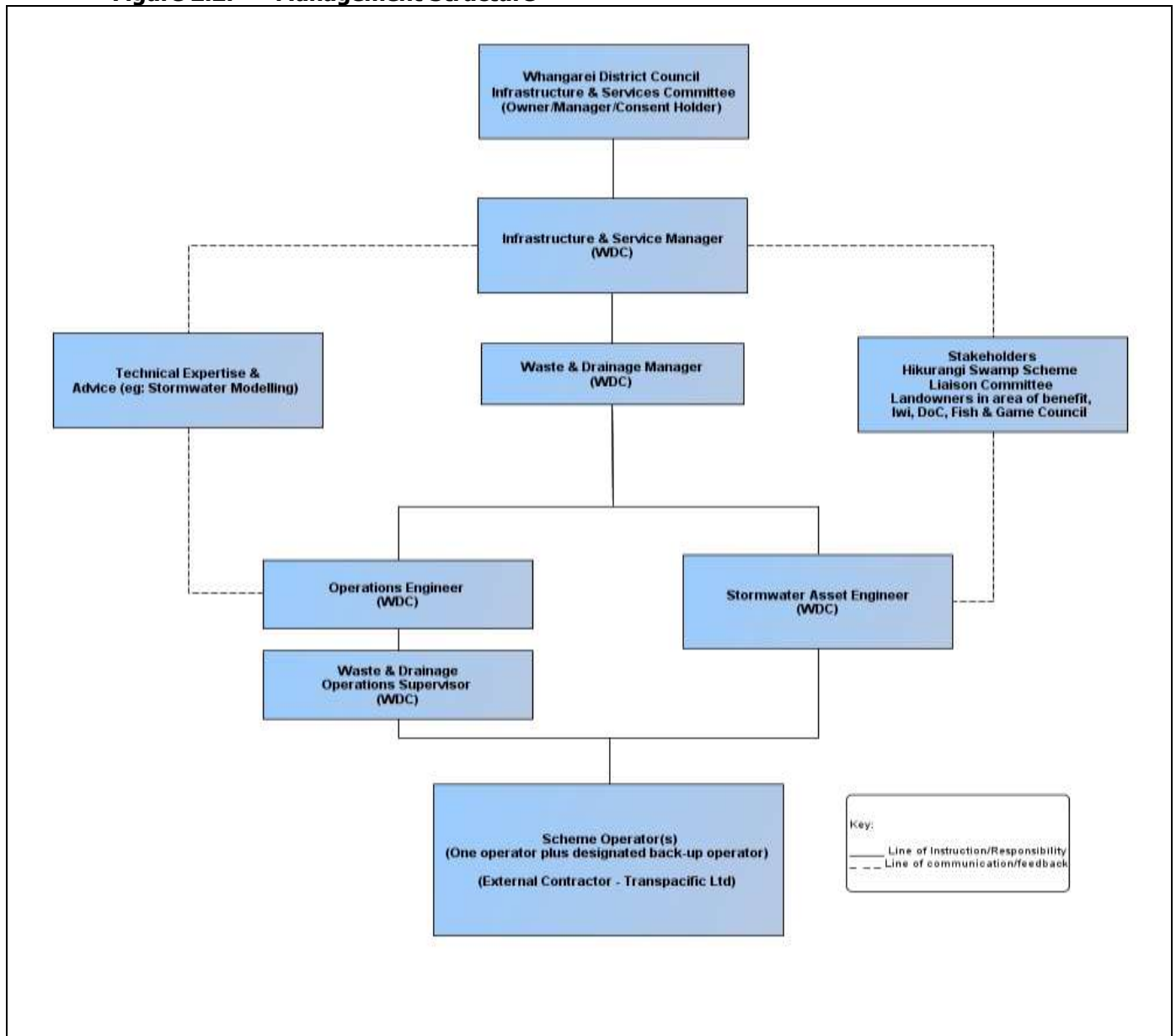
Table 2.2: Pump Capacities

Pocket	Maximum Pump Flow Rate (m ³ /sec)		
	Per Original Scheme Design	Current Installed	Proposed Future
Junction	1.11	1.07	1.10
Te Mata	6.22	6.20	6.20
Tanekaha	1.06	1.77	1.75
Otonga	6.22	6.23	6.30
Mountain	1.62	2.14	2.14
Ngararatunua	11.13	11.26	11.10
Okarika	12.34	11.27	12.30
Total	39.70	39.94	40.89

2.3. Roles and Responsibilities

The overall management structure is summarised in the flowchart below.

Figure 2.2: Management Structure



2.3.1. Whangarei District Council

Whangarei District Council is the owner and consent holder for the Hikurangi Swamp Drainage Scheme and has overall responsibility for the Scheme, its facilities and its consent compliance. Council's roles and responsibilities include:

- managing the scheme assets including renewals;
- ensuring compliance with resource consent requirements;
- commissioning major and minor upgrade works;
- authorising the actions required to prevent, mitigate or manage a non-compliance situation.

2.3.2. The Operation and Maintenance Contractor

Transpacific Ltd, the current Operation and Maintenance Contractor, (OMC) is contracted to provide Scheme operation and maintenance services to Whangarei District Council.

The OMC is charged with maintaining the stormwater pump stations to provide an un-interrupted service and a speedy response to any faults that may develop. This necessitates preventative works as well as reactive type works. The Contractor is required to have labour, plant and materials available at all times to investigate reported faults and carry out urgent work if required, sufficient to protect life and property or ensure no further damage to Council asset occurs. They are responsible for:

- operating and maintaining the scheme;
- receiving, recording, actioning and reporting on any complaints they receive;
- regular reporting on the scheme to Whangarei District Council.

2.3.3. Northland Regional Council

As the consent authority, Northland Regional Council (NRC) has responsibility for:

- the control of discharges of contaminants into or onto land, air, or water; and
- ensuring compliance with resource consent conditions.

2.4. Stakeholder Liaison

Stakeholders include land owners within the area of benefit, Department of conservation, iwi and the Northland Fish and Game Council. Whangarei District Council liaises and interacts with stakeholders to keep them informed by newsletters, e-mails and regular meetings.

3. Programme of Works

A programme for construction of planned and approved works is outlined in this section. The works will be identified and managed by Council's Stormwater Asset Engineer and external contractors will be engaged as required to carry out the actual works.

The proposed works and timeframes are shown in Table 3.1. This programme is indicative only, and will be subject to change as future management plans for Fisheries Management and Floodway Riparian Management are prepared.

Table 3.1: Proposed Programme of Works

Infrastructure Item	Proposed Work	Timing
Spillway	Adaptive management approach to adjustment of Spillway lengths including undertaking the first stage adjustment	Completed
Control banks and stop banks	Survey of bank levels	Completed 2010
	Adjustments to control banks to bring them back to original design levels (identification of low spots and inappropriate spills and carrying out minor adjustments only)	Stage for completion by 2015
	Ongoing survey of bank levels	2015 (every five years)
Pump Stations	Ongoing pump replacement programme. A proactive replacement programme is under way and funding has been set aside in Council's Long Term Plan (LTP).	Progressive over time based on performance and condition assessment and risk of failure
	Fish passage modifications: Refer Fisheries Management Plan (FMP)	
Floodgates	Identify opportunities for improved performance of floodgates including number of floodgates and required modifications to allow for opening under low flows.	Physical works commencing in 3 to 5 years.
Floodways	Refer Riparian & Oxbow/Cut-off Channels Management Plan (ROBMP)	Physical works commencing in 3 to 5 years.

4. Monitoring Programme

Details of proposed monitoring programmes are outlined in this section.

4.1. Monitoring of floodgate management, fish mortality and distribution

Monitoring of:

- management of the floodgates, including assessment of the provision of fish passage both upstream and downstream including during summer low flow conditions; and
- any fish mortality within the scheme, including its distribution and likely cause;

will be covered in the Fisheries Management Plan.

4.2. Monitoring Spillway Flow Distribution

The aim of the proposed adjustments to the spillways is to ensure an equitable average volume of flood water entering the seven separate pockets. This will be achieved by adjustment of spillway crest levels and lengths and a significant amount of work has been carried out by District Council, in conjunction with landowners, to develop a robust model to predict the volumes of flow into various pockets. It is intended to set the spillway crest levels and then to adjust the spillway lengths to obtain the desired equitable spillway proportions to each pocket as outlined in condition 11 of the resource consent (Refer Appendix A)

Monitoring and adjustment of spillway flow distribution will be undertaken in the following steps:

1. Amend spillway crest levels and lengths (first adjustments) in accordance with the figures set out in Table 4.1 below.
2. Carry out flow distribution modelling through flow depth/time recorders at each pocket spillway crest and/or by aerial photography. Recorders have been placed at all spillways with a minimum of 2 recorders per spillway to allow for faults and cross checking.
3. Collect results of detailed monitoring to provide assessments of overflow volumes to pockets for several events prior to doing any further modifications to spillway lengths. Data will be collected from at least five consecutive overflow events for which the existing apportionments can be measured to within + or -15%.
4. Re-run the flow model as new data becomes available.
5. Make future adjustments to spillway lengths as data becomes available on the distribution of spills over the spillway crests.

Table 4.1 Spillway Crest Details

Pocket	Original Design		Present Situation		Proposed First Step	
	Level	Length	Level	Length	Level	Length
Junction	91.32	180	91.43	200	91.32	155
Te Mata	91.30	670	91.32	350	91.30	575
Otonga	91.22	675	91.23	675	91.22	670
Mountain	91.20	200	91.14	200	91.20	490
Tanekaha	91.20	200	91.08	250	91.20	180
Ngararatunua	91.11	1180	91.10	1200	91.11	350
Okarika	91.08	940	91.02	940	91.01	940

4.3. Monitoring Banks and Floodways

There is an annual walkover inspection of control banks and floodways to check for subsidence, erosion, damage and vegetative cover. Further details are given in Table 6.1 - Scheme Maintenance.

The floodway land is vested in the Whangarei District Council as a reserve for soil conservation and river control purposes as part of the Scheme. It is grazed under lease. The lease includes a number of conditions including to farm and manage the whole of the land in a good and husband-like manner, at all times maintain the land in good grass, no greater than 150 mm in height on average, and clear the land of all noxious weeds. Regular walkover inspections as described above and in Table 6.1 will check for compliance with these requirements.

5. Protection of Significant Indigenous Wetlands

The final Scheme Management Plan is required to include *provisions for the protection of significant indigenous wetlands within the main floodway (washway) channels ie. between the control banks.* These provisions will be identified and formulated during the preparation of subsequent plans for the Oxbow/Cut-off Channels Management and Floodway Riparian Management. One of the existing oxbow/cut-offs has already been restored and revegetated by the Northland Fish and Game Council and this restoration can serve as a model for future work. A description of the reserves and marginal strips within the main floodway channels is included below.

5.1 Reserves and Marginal Strips

Marginal strips within the Scheme area were created along the Whakapara and Wairua Rivers where crown land was sold adjacent to the river. This occurred long before the Scheme was constructed and typically a 20 metre strip adjacent to each bank of the rivers was vested in the crown as Reserve. These reserves are known as marginal strips and are managed by the Department of Conservation for the purposes of:

- a reserve for public access;
- protection of the conservation values present;
- their inherent species values; and
- the improvement of the water quality.

The location of these marginal strips is shown in Figure 5.1. The provisions for the protection of these will be addressed in the future Floodway Riparian Management Plan and Oxbow/Cut-off Channels Management Plan which will be prepared by May 2011 and May 2012 respectively.

Figure 5.1 Reserves and Marginal Strips



6. Scheme Maintenance

This section includes a description of operational arrangements and work programmes to maintain the Scheme stop banks and spillways at the approved lengths and levels. It includes a schedule which specifies the item of infrastructure, the method and frequency of maintenance, and where applicable, the detailed maintenance reference document. The maintenance schedule for each piece of infrastructure is included in Table 6.1.

6.1 Performance standards on authorisations for maintenance

Due to the regular walkover inspections outlined in Table 6.1 any unauthorised modifications to infrastructure will be evident.

Council proposes to develop a standard operating procedure for any scheme maintenance. Any maintenance work, including on spillways or stop banks, will be carried out only under the authorisation of Whangarei District Council.

Council will establish standard operating procedures, authorised by the Waste & Drainage Operations Engineer (OE). The OE will provide written instructions to council authorised contractors to carry out authorised maintenance. In addition, a record of such works will be forwarded to NRC in the Annual Report. The proposed procedure is outlined in Figure 6.1 below.

Figure 6.1 Proposed Procedure for Authorising and Recording Maintenance

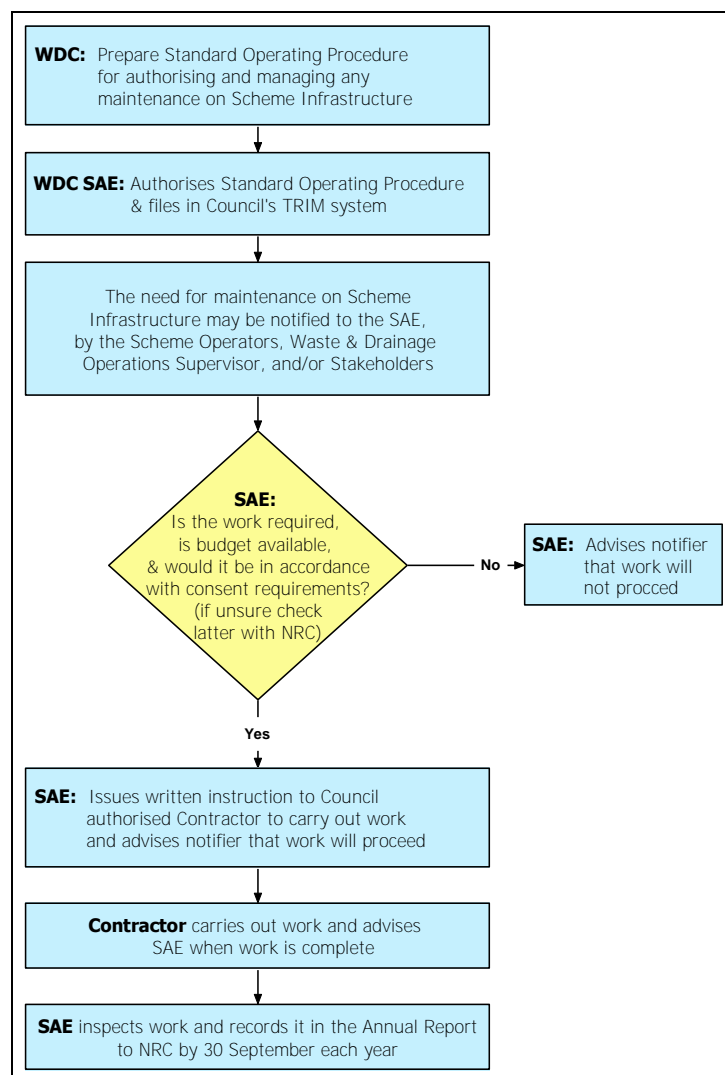


Table 6.1-Infrastructure Maintenance Schedule

Infrastructure	Method	Frequency	Reference Document
Control banks	Walkover inspection to check for subsidence, damage, and erosion	Annually or after spill event	
Spillways	Walkover inspection to check for subsidence, damage, and erosion	Quarterly or after spill event	
Stopbanks	Check stopbanks for sinkage, washouts, potholes and stock damage	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
Floodways	Walkover inspection to check for subsidence, damage, and erosion	Annually or after spill event	
Fencing	Walkover inspection	Annually	
Pump Stations	Check room lights, check vortex boards are bolted down, check gravity gate for jammed logs etc, check outlet doors, check that stairs are clear; check for structural damage to Pump Station;	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Sweep and clean inside pump station; set out vermin baits in electrical cabinets.	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Spray weeds or use weed eater around pump station	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Check paint, gratings, handrails, entry gate, doors, electrical cables, wires strops that open gravity door, anti-corrosive blocks, outlet door including fasteners; the effectiveness of baits.	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Clean and prime any corroded metal	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
Pumps	Check pump bay for any foreign objects (including rubbish), check probe fittings and connections to ensure that pumps start and stop when required (outlet/inlet side), check the water supply to motors	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Run pumps for 30 seconds.	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Check impellor blades, guide vanes, bell mouth lining, holding down bolts, flap valves, probes, vortex plates and pump electrical cables.	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Wash tank, put in clean mixture and run through pumps, checking for leakage.	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
Screens	Clean weed screens; clean weed booms and repair any damage.	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Remove all debris from sumps and screens	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
Floodgates	Clean floodgates of debris, and operate floodgates	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Inspect floodgate lifting and hinge mechanisms	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets

Infrastructure	Method	Frequency	Reference Document
Pockets	Record any major changes to the pocket (ie: erosion)	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Make sure the safety chains are up	Weekly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Check drains for any required spraying and/or mechanical weed removal and complete quarterly Pump Station Pockets Spraying Schedule	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets
	Check entry road into pump station for sinkage, washouts, potholes and stock damage	Quarterly	Pump Station Operation and Maintenance Manual for each of the seven pockets

7. Contingency and Emergency Planning

7.1 Incidents and Complaints Log

On receipt of a complaint or incident relating to the Scheme the following information shall be noted in the Incident and Complaints Log including:

- a) the date and time of the incident/complaint;
- b) the nature of the incident/complaint;
- c) the name, telephone number, and address of the complainant;
- d) weather information (an estimate of wind speed and direction - taken from the nearest metrological station);
- e) details of key operating parameters at the time of the complaint; and
- f) the remedial action taken to prevent further incidents/complaints.

The District Council has a comprehensive customer communications system and complaints received at Council's Call Centre will be logged through that system and a summary report generated out of CRM.

Complaints may also be made directly to NRC's Environmental Hotline or to the Scheme Operators. **Once these are notified to District Council's** Waste & Drainage Operations or Stormwater Asset Engineers, best endeavours will be made to complete the Incident and Complaints Log depending on the availability of information supplied by other parties.

A record of the complaints received and responded to will be forwarded to NRC's Monitoring Manager by 31 May each year. Information will also be provided in response to a specific request from NRC's Monitoring Manager.

7.2 Emergency Planning

In the event of an emergency or disaster the procedures in Council's Health and Safety system and Stormwater Business Continuity Plan cover the relevant actions and procedures to be followed.

Council has extensive systems and procedures in relation to Health and Safety and these can be accessed from Council's system (refer section 1.5). The contact details for **Council's** Health and Safety Coordinator are given in Table 7.1.

Council also has a Stormwater Business Continuity Plan (BCP), which includes the Hikurangi Swamp Drainage Scheme and sets out the procedures and information developed in readiness for use in the event of an emergency or disaster. Its purpose is to document the stormwater services management and response framework to respond to a crisis. This response framework should be capable of: protecting the interests of staff, key stakeholders and the community; allowing for continuation of the services as far as possible; and enabling the management of economic and social impacts. It focuses on the specific activities that relate to the reduction, readiness, response and recovery of the drainage system

The key objectives to be achieved during and after a major disruption are to:

1. Protect personnel in the community
2. Protect assets and records
3. Continue services
4. Minimise losses and recovery time.

A list of emergency contacts is given in Table 7.1.

Table 7.1 List of Emergency Contacts

Role/Organisation	Name	Phone
Works & Services Manager/WDC	Simon Weston	(m) 027 440 4965
Waste & Drainage Manager/WDC	Andrew Carvell	(m) 027 430 4054
Stormwater Asset Engineer /WDC	Conal Summers	(m) 027 455 7665
Waste & Drainage Operations Engineer/WDC	Glenys Rule	(m) 027 244 2712
Wastewater & Drainage Operations Supervisor/WDC	Andy Keith	(m) 027 475 9940
Emergency Management Officer/WDC	Antoinette Mitchell	(m) 027 288 8304
Health and Safety Co-ordinator/WDC	Glenn Fairchild	(m) TBA (Wph) 430 4230 ext 8887
Scheme Operator/Transpacific Industrial;	(Branch Manager)	(wph) 09 438 1346 (wfx) 09 438 1360

Appendix A: Resource Consent



Resource Consent

Pursuant to the Resource Management Act 1991, the Northland Regional Council (hereinafter called "the Council") does hereby grant a Resource Consent to:

WHANGAREI DISTRICT COUNCIL, WASTE & DRAINAGE DIVISION, PRIVATE BAG 9023, WHANGAREI 0140

To undertake the following activities associated with the Hikurangi Swamp Scheme ("Scheme"), between approximate location co-ordinates 1715426E 6066376N (Whakapara River at the SH No. 1 bridge), location co-ordinates 1712024E 6066295N (Waiotu River near SH No. 1) and location co-ordinates 1708627E 6056159N (Wairua River at the Lewis Bridge), all as generally shown on the Map titled "Hikurangi Swamp", dated February 2010 and prepared by Assets Data Team, Whangarei District Council Scheme Area, showing the locality and features of the Scheme that is attached as Appendix 1 to these consents:

Note: All location co-ordinates in this document refer to Geodetic Datum 2000, New Zealand Transverse Mercator Projection.

- (01) To divert and dam floodwaters - **Water Permit.**
- (02) To discharge floodwaters on to land and into surface water via flood control mechanisms – **Discharge Permit.**
- (03) To place, use, restore, manage and maintain existing dams, culverts, control banks and floodgates on the bed of the watercourses - **Land Use Consent.**
- (04) To carry out excavation or disturbance of the bed of the water courses for the purpose of maintaining the free flow of water – **Land Use Consent.**
- (05) To undertake earthworks on the control-banks and berms adjacent to watercourses, including modifications to spillways - **Land Use Consent.**

Subject to the following conditions:

- 1 The Consent Holder shall be authorised under these consents to undertake only the following activities within the existing catchment areas of the Scheme, as at the date of commencement of these consents:
 - (a) Maintaining culverts and floodgates, including modification in accordance with Condition 16, as required;

- (b) Restoring and maintaining all control banks (stopbanks), including placing material or removing material previously placed on top of the control banks and shaping them to the general levels defined in the original design document;
- (c) Removal of sediment, trees and other vegetation in watercourse channels in order to restore or maintain (as-built) flood flow paths;
- (d) Stream-bank protection as required in the Whakapara, Waiotu and Wairua Rivers;
- (e) Restoring, maintaining and stabilising the berms of the Whakapara, Waiotu and Wairua Rivers;
- (f) Maintaining, as required, the floodgates that provide drainage of floodwater from the seven identified pockets (sub-catchments) of the Scheme, as identified in Table in Condition 11, and shown on the Map **attached** as Appendix 1;
- (g) Removing vegetation and accumulated sediment from river banks;
- (h) Restoring and maintaining pocket spillway crest lengths and levels to maintain and equitable average distribution of flood spill waters, as identified in the Table in Condition 11; and
- (i) Replacing existing pumping equipment at the various pump stations serving the individual pockets as the operating capability of the pump station demands.

2 Within 6 months of the date of commencement of these consents, the Consent Holder shall prepare and forward to the Regional Council's Monitoring Manager a Scheme Management Plan which details the practices and procedures with respect to the management of the Scheme to be adopted in order that compliance with the conditions of these consents are achieved. The Scheme Management Plan shall include, but not be limited to, the following:

- (a) The objectives of the original Scheme (the flood control scheme).
- (b) A definition of the original Scheme and identification of the Drainage District and catchment area. ((a) and (b) to be extracted from the records of the original so-called "Hikurangi Swamp Catchment Major Scheme" completed in 1977.)
- (c) A Scheme Asset Register, which shall include a schedule of the as-built works involved in the Scheme. This shall include references to:
 - (i) Detailed plans, elevations and sections of pump stations and associated inlets, screens and outlets, including erosion protection measures.
 - (ii) Long sections and representative cross-sections of all river control-banks.
 - (iii) Detailed plans and long sections of all Scheme pocket spillway crests.

- (iv) Plans and locations of all drains, canals, control or stopbanks, floodgates, pumping stations or similar works in the Scheme under the control of the Consent Holder and to which these consents apply.

All or any of these documents shall be made available to the Regional Council's Monitoring Manager on request.

- (d) A programme for construction of planned and "approved" works. This section will apply to those parts of the existing Scheme which have not been completed to the design standard, and to those which are to be brought back up to the design standard from a deteriorated state.
- (e) A description of operational arrangements and work programmes to maintain the Scheme stopbanks and spillways at the approved lengths and levels. This section will include a schedule which specifies the maintenance standard for each piece of the infrastructure, the method of maintenance (whether it will be by machine cleaning or herbicides), the timing and frequency of maintenance, performance standards on authorisations for maintenance, methods of disposing or re-vegetating drain cleanings, including contingency measures for unforeseen or emergency situations.
- (f) Provisions for the protection of the significant indigenous wetlands within the main floodway (washway) channels ie. between the control banks.
- (g) Details of monitoring programmes, including the following:
 - (i) Management of the flood gates of the Scheme, including assessment of the provision of fish passage both upstream and downstream including during summer low flow conditions;
 - (ii) Monitoring any fish mortality within the Scheme, distribution and likely cause;
 - (iii) Ongoing monitoring of spillway flow distribution by continuing water level data collection from existing recorders and installation of durable flow depth/time recorders at each pocket spillway crest, or other suitable approved alternative method;
 - (iv) Monitoring and maintenance of river banks and berms, including measures to prevent sustained erosion and scouring and to minimise areas of bare soil; and
 - (v) Contingency measures for unforeseen or emergency situations.

The initial Scheme Management Plan will at least address all those matters for which information is currently available, or can reasonably be obtained, within 6 months. It shall also set out a timetable for achieving all the requirements within 2 years of the date of commencement of these consents, by which time a full Scheme Management Plan ("Scheme Management Plan") covering all the matters above shall be submitted to the Regional Council Monitoring Manager.

The full Scheme Management Plan may be reviewed at any time by the Consent Holder and, in any event, shall be reviewed at not less than 5 yearly intervals, with any such review to include such matters as are set out in the Scheme Management Plan, or as the Consent Holder considers appropriate. If any changes are to be made to the Scheme Management Plan as a result of a review, a copy of the amended Scheme Management Plan shall be forwarded to the Regional Council's Monitoring Manager for approval within 14 days of the amended Scheme Management Plan being adopted by the Consent Holder.

The Consent Holder may propose amendments to the design length and construction of the stopbank spillways as considered appropriate to achieve the average apportionment of total overspill of flood water into the 7 pockets as stated in the table in Condition 11. Any such amendment to stopbank spillways may only be undertaken once the written approval for such works has been given by the Regional Council's Monitoring Manager.

3 The Consent Holder shall prepare a Floodway Riparian Management Plan section within the Scheme Management Plan to address the riparian margin of the rivers within the Scheme up to 10 metres either side of the low-flow river channel banks. The provisions of this Management Plan relating to riparian margins within the floodway shall include, as a minimum, the following:

(a) The requirements for the types and the maintenance of riparian vegetation that are to be established along the banks of the main channels of the Whakapara, Waiotu and Wairua Rivers.

Advice Note: *It is recommended to take into account the following when preparing 3(a): the Northland Regional Council document 'Clean Streams: A Guide to Riparian Management in Northland', advice from the Northland Regional Council staff and current good practice in the Scheme area or in similar areas.*

(b) A description of appropriate methods to be implemented for exclusion of stock from the riparian margins within the floodway.

The Floodway Riparian Management Plan shall be forwarded to the Regional Council's Monitoring Manager within one year of the date of commencement of these consents.

The Consent Holder may amend the Floodway Riparian Management Plan at any time during the term of these consents. A copy of the amended Floodway Riparian Management Plan shall be forwarded to the Regional Council's Monitoring Manager for approval within the terms of these consents within 14 days of the amended provisions being adopted by the Consent Holder.

4 The Consent Holder shall prepare a description of ox-bows and cut-off channels within the floodway channels of the Waiotu, Whakapara and Wairua Rivers that can be enhanced with respect to riparian function, such to be included in the Scheme Management Plan as the Oxbow/Cut-off Channel Management Plan.

The description shall include the procedures, methodology and funding mechanisms to achieve the enhancement and shall be prepared in conjunction with the Northland Regional Council and representatives of the Northland Fish and Game Council and the Department of Conservation and in consultation with persons farming the land in question. The Plan shall identify which oxbows/cut-off channels can be enhanced having regard to practicality and benefit. Details shall be forwarded to the Regional Council's Monitoring Manager for approval within the terms of these consents within two years of the date of commencement of these consents.

The Consent Holder may amend the Ox-bow/Cut-off Channels Management Plan at any time during the term of these consents. A copy of the amended Oxbow/Cut-off Channels Management Plan shall be forwarded to the Regional Council's Monitoring Manager for approval within the terms of these consents within 14 days of the amended Plan being adopted by the Consent Holder.

- 5 The Consent Holder shall undertake the activities authorised by these consents in accordance with the most recent approved version of the Scheme Management Plan, as required by Condition 2. However, if there are any differences or apparent conflict between this document and any conditions of these consents, then the conditions of the consents shall prevail.
- 6 When undertaking vegetation clearance, the restoration or maintenance of structures or culverts, and the re-contouring of the river banks and berms of the watercourses, the Consent Holder shall ensure that all bare areas of land shall be covered with aggregate, suitably sealed or topsoiled and established with suitable vegetation to achieve not less than an 80% ground cover by 31st May immediately following the earthworks operations in each construction season, or in accordance with any concessions granted in accordance with the requirements of Condition 12. Sediment control measures shall, as a minimum, be constructed in accordance with the principles and practices contained within the document entitled "Erosion and Sediment Control – Guidelines for Land Disturbing Activities", Auckland Regional Council Technical Publication No. 90, dated March 1999 ("TP 90").
- 7 The Consent Holder shall ensure that excavated soil and debris, and removed vegetation, is not placed or stockpiled in a position which would allow it to enter a watercourse.
- 8 The Consent Holder shall maintain all Scheme assets and works to prevent, as far as is practicable, scour of watercourses and soil erosion.
- 9 The Consent Holder shall ensure that suitable conditions are imposed in any pastoral lease or licence of land containing control banks that ensures that the surfaces of those control banks are not unduly disturbed or damaged by inappropriate grazing or storage of stock for long periods, other than in an emergency.

- 10 The Consent Holder shall ensure that all land disturbance and earthworks necessary for construction of roads and access ways are kept to a minimum.
- 11 The Consent Holder shall initially adjust the Scheme pocket spillway crest lengths and levels to be accordance with the following table:

Scheme Pocket	Average Apportionment of Total Scheme Overspill (%)	Proposed Spillway Level (m AMSL)	Proposed Spillway 1 st Step Crest Lengths
Junction	5	91.32	155
Te Mata	20	91.30	575
Otonga	23	91.22	670
Mountain	14	91.20	490
Tanekaha	3	91.20	180
Ngararatunua	10	91.11	350
Okarika	25	91.01	940

The Consent Holder shall monitor subsequent overtopping occurrences to provide reliable data to facilitate modelling and analysis of the operation of the Scheme as set out below. When at least five consecutive overflow events for which the existing apportionments can be measured to within + or - 15% have occurred, the Consent Holder shall review the initial adjustments to crest lengths using appropriate modelling techniques to determine whether the average apportionments as set out in the Table above are to all intents and purposes being achieved or whether additional adjustments to crest lengths are required.

To facilitate such measurements being made the Consent Holder shall ensure that sufficient gauge-boards are fixed to pump station floodgate structures and at an appropriate point in each spillway, levelled in to a common datum and adequately maintained.

The Consent Holder shall provide a report detailing the measurements taken, the methods used, the analysis eventuating and any proposed modifications to crest lengths to the Regional Council's Monitoring Manager. This report shall be provided to facilitate Regional Council approval, in terms of these consents, of any proposed changes.

- 12 The Consent Holder shall notify the Regional Council's Monitoring Manager in writing of the date that works in accordance with Condition 6 are intended to commence, at least two weeks beforehand. A site meeting between the Regional Council's Monitoring Manager, or his/her assigned appointee, and the principal earthmoving contractor shall be held prior to any earthworks commencing to discuss the erosion and sediment control measures.
- 13 No earthworks shall be carried out between 1 May and 1 October in any year without the prior written approval of the Regional Council's Monitoring Manager.

Advice Note: This does not include emergency works as defined by S330 of the RMA 1991.

- 14 Erosion and sediment control measures shall be the first measures constructed or installed on site and shall be retained until works in the contributing catchment are stable against erosion and sediment discharges in accordance with Condition 6.
- 15 If the Consent Holder wishes to install new floodgates within the Scheme area to reduce the duration of flooding of farmland and/or increase migratory pathways for eels into and out of pockets within the Scheme, then a report must be provided to the Regional Council's Monitoring Manager setting out an assessment by an appropriately qualified person(s) of the proposed position of the floodgates in relation to pocket and river flood level response, to enable an assessment to be made as to whether the proposal is authorised by these consents or whether an application for a change to these consents under Section 127 of the Resource Management Act is required.
- 16 All floodgates shall be maintained and modified if necessary to:
 - (a) Ensure free opening when downstream water levels drop below upstream water levels;
 - (b) Ensure free closing when downstream water rises above upstream water levels;
 - (c) Remove weed and other debris that may adversely affect the operation of the floodgates; and
 - (d) Ensure that in conditions of low flows from pockets all floodgates open sufficiently, or are opened and held open to allow fish passage upstream into pockets or provide other measures to ensure fish passage upstream past or through the floodgates. Any such holding open of any floodgates must be accomplished in such a way that the gate can be released easily from top of the control bank level should the gate be required to function as a floodgate.
- 17 The Consent Holder shall undertake studies in relation to mechanisms, structures and other techniques to, as far as practicable, minimise fish entry into the pumps and enhance the passage of fish through the Scheme. These studies shall include obtaining further advice on eel population management from a suitable qualified person, and include a general assessment of habitat opportunities and eel populations above the pumps and the area of habitat for each pocket in terms of drain and/or ox-bow reserve areas and upstream tributaries. Within 24 months of the commencement of these consents the Consent Holder shall prepare and forward to the Regional Council's Monitoring Manager a Fisheries Management Plan which sets out proposals and timetables for enhancement of fish passage, pump fish entrainment deterrent and ongoing monitoring and management of such measures as are implemented.
- 18 The Consent Holder shall ensure that the pumps installed in the pump station serving a Scheme pocket cease operation once any overspill into that pocket commences and that pumping is not resumed until water levels in the adjacent river drop below the level of the overflow spillway.

- 19 The Consent Holder shall ensure that the pump station capacity for each pocket is such that the maximum rate of removal of water from the pocket does not exceed an average of 21.6 millimetres of runoff over the entire pocket catchment (hill country and lowlands) pumped out over a 24 hour period.
- 20 The Consent Holder shall ensure that any unauthorised structures that threaten the integrity of channels, drainage systems and watercourses or flood overflow paths are removed forthwith. The Consent Holder shall also take action to ensure that they are not reconstructed.
- 21 The Consent Holder shall maintain all facilities covered by these consents in good order and repair to ensure their structural integrity is ensured at all times.
- 22 The Consent Holder shall maintain an Incident and Complaints Log in respect of the activities authorised by these consents. The Log shall include:
 - (a) The date and time of the incident / complaint;
 - (b) The nature of the incident / complaint;
 - (c) The name, telephone number, and address of the complainant;
 - (d) Weather information (an estimate of wind speed and direction);
 - (e) Details of key operating parameters at the time of the complaint; and
 - (f) The remedial action taken to prevent further incidents/complaints.
- 23 All enquiries and complaints received shall be recorded and responded to, and a copy of these records and responses shall on an annual basis by 31 May be forwarded to the Regional Council's Monitoring Manager or in response to a specific request.
- 24 The Consent Holder shall advise the Regional Council's Monitoring Manager in writing as soon as each stage of the works on the control bank adjustments has been completed.
- 25 By 30 September each year the Consent Holder shall forward to the Regional Council Monitoring Manager an Annual Report that includes, as a minimum:
 - (a) A description of works or activities undertaken over the preceding financial year including details of maintenance works carried out, and the location of channel bank reshaping and channel clearance activities;
 - (b) An description/explanation of any significant issues in relation to the consents, which may have presented themselves over the preceding year including details of any non-compliance with the conditions of these consents, setting out the reason for non-compliance and the measures implemented to ensure that the non-compliance did not reoccur;

- (c) A description of any observed adverse effects of the activities undertaken;
 - (d) A description of any mitigation measures undertaken in relation to any observed adverse effects and the measures implemented to avoid, as far as is practicable, the reoccurrence of the observed adverse effects;
 - (e) A narrative setting out progress with the implementation of the Scheme Management Plan required by Condition 2.
- 26 The Consent Holder shall, for the purposes of adequately monitoring the consents as required under Section 35 of the Act, on becoming aware of any contaminant associated with the Consent Holder's operations, including during refuelling and servicing of machinery on-site, escaping otherwise than in conformity with these consents:
- (a) Immediately take such action, or execute such work as may be necessary, to stop and/or contain such escape; and
 - (b) Immediately notify the Regional Council's Monitoring Manager by telephone of an escape of contaminant; and
 - (c) Take all reasonable steps to remedy or mitigate any adverse effects on the environment resulting from the escape; and
 - (d) Report to the Regional Council's Monitoring Manager in writing within one week on the cause of the escape of the contaminant and the steps taken or being taken to effectively control or prevent such escape re-occurring; and
 - (e) When an accidental spillage to land occurs during refuelling or servicing of machinery on-site, the Consent Holder is required to collect all contaminated soil and remove it to a disposal site that is legally able to accept such material.
- 27 The Regional Council may, in accordance with Section 128 of the Resource Management Act 1991, serve notice on the Consent Holder of its intention to review the conditions of these consents. Such notice may be served two years after the date of commencement of the consents, and thereafter at yearly intervals during the month of April annually. The review may be initiated for any one or more of the following purposes:
- (a) To deal with any adverse effects on the environment that may arise from the exercise of the consents and which it is appropriate to deal with at a later stage, or to deal with any such effects following assessment of the results of the monitoring of the consents and/or as a result of the Regional Council's monitoring of the state of the environment in the area;
 - (b) To require the adoption of the Best Practicable Option to remove or reduce any adverse effect on the environment;
 - (c) To provide for compliance with rules in any regional plan that has been made operative since the date of commencement of the consents; and

- (d) To deal with any material inaccuracies that may be found in the information made available with the application. (Notice may be served at any time for this reason.)

The Consent Holder shall meet all reasonable costs of any such review.

EXPIRY DATE: 35 YEARS FROM THE DATE OF THIS CONSENT

Please note that this consent was issued by Dr J A Jones and A R Watson as Hearings Commissioners on the Thirtieth day of April 2010, being the date of the Hearing Commissioners' decision. Please note that the date of commencement of the Resource Consent is the Twenty-seventh day of May 2010.

APPENDICES:

Appendix 1, Map titled “Hikurangi Swamp”, dated February 2010 and prepared by Assets Data Team, Whangarei District Council Scheme Area, showing the locality and features of the Scheme.



Appendix B: Register of Scheme Plans

Plan	Size	Format	Date/Time	Road	Type	Title
6005	69,730	TIFF	10/09/1999 10:30:48a.m.		Maps Swamp	Area of Hikurangi Swamp Drainage Scheme in the Bay of Islands County 8000 ha Approx 3/11/1988
6005	83,914	TIFF	10/09/1999 10:31:48a.m.		Maps Swamp	Area of Hikurangi Swamp Drainage Scheme in the Bay of Islands County (8000 ha Approx) 3/11/1988
6005	449,402	TIFF	14/09/1999 7:10:00a.m.		swamp	Hikurangi Swamp Major Scheme
6005	31,258	TIFF	14/09/1999 7:15:32a.m.		Swamp	Flooding Chart
6005	26,746	TIFF	14/09/1999 7:19:32a.m.		Swamp	Flooding Chart
6005	25,650	TIFF	14/09/1999 7:15:32a.m.		Swamp	Flooding Chart
6005	25,794	TIFF	14/09/1999 7:14:16a.m.		Swamp	Flooding Chart
6005	57,674	TIFF	14/09/1999 7:15:00a.m.		Swamp	Flooding Chart
6005	30,330	TIFF	14/09/1999 7:15:00a.m.		Swamp	Flooding Chart
6005	30,610	TIFF	14/09/1999 7:13:48a.m.		Swamp	Flooding Chart
6005	30,242	TIFF	14/09/1999 7:13:00a.m.		Swamp	Flooding Chart
6005	28,954	TIFF	14/09/1999 7:15:00a.m.		Swamp	Flooding Chart
6005	28,930	TIFF	14/09/1999 7:13:32a.m.		Swamp	Flooding Chart
6005	27,170	TIFF	14/09/1999 7:14:48a.m.		Swamp	Flooding Chart
6005	27,578	TIFF	14/09/1999 7:12:16a.m.		Swamp	Flooding Chart
6005	35,250	TIFF	14/09/1999 7:19:32a.m.		Swamp	Flooding February March 1966
6005	39,522	TIFF	14/09/1999 7:11:32a.m.		Swamp	Flooding Chart
6005	48,730	TIFF	14/09/1999 7:11:16a.m.		Swamp	Flooding Chart
6005	31,586	TIFF	14/09/1999 7:11:00a.m.		Swamp	Flooding In Otonga Catchment
6005	40,650	TIFF	14/09/1999 7:19:48a.m.		Swamp	Flooding February March 1966 Outflow At Purua Bridge
6005	29,122	TIFF	14/09/1999 7:19:00a.m.		Swamp	Water Levels From Automatic Recorder At Wairua Bridge
6005	28,074	TIFF	14/09/1999 7:19:00a.m.		Swamp	Stage Discharge Curve Wairua Bridge
6005	115,138	TIFF	14/09/1999 7:19:16a.m.		Swamp	Flooding Chart
6005	29,602	TIFF	14/09/1999 7:15:48a.m.		Swamp	Flooding Chart
6079 5/21	467,258	TIFF	14/09/1999 8:15:48a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For Wairua River Control
6082 19/20	825,490	TIFF	14/09/1999 8:14:00a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6087 1/19	824,490	TIFF	14/09/1999 8:13:16a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6091 11/18	1,198,266	TIFF	14/09/1999 8:15:00a.m.	Rushbrook	Swamp	Plan Of Land To Be Taken For Wairua River Control
6096 12/17	869,602	TIFF	14/09/1999 8:15:00a.m.	Rushbrook	Swamp	Plan Of Land To Be Taken For Wairua River Control
6097 8/15	1,957,546	TIFF	14/09/1999 8:08:16a.m.	Rushbrook	Swamp	Plan Of Land Required For Road Severance River Control & Road To Be Closed
6102 7/16	1,777,162	TIFF	14/09/1999 8:13:00a.m.	Jordan-Valley Rushbrook	Swamp	Plan Of Land To Be Taken For Wairua River Control
6104 1/7	353,578	TIFF	14/09/1999 8:43:16a.m.	Rushbrook	Swamp	Plan Of Adoptions Adjoining SOs 52049 52057
6111 10/13	419,186	TIFF	14/09/1999 8:41:32a.m.	Matarau Rushbrook	Swamp	Plan Of Adoptions Adjoining SO's 52049 - 52057
6120 2/3	661,666	TIFF	14/09/1999 8:43:16a.m.	Otakairangi Lovell Matarau	Swamp	Plan Of Adoptions Adjoining SO's 52049 - 52057
6124 12/13	258,210	TIFF	14/09/1999 8:11:48a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6131 2/11	1,081,834	TIFF	14/09/1999 8:41:32a.m.	Swamp Otakairangi	Swamp	Plan Of Adoptions Adjoining SOs 52049 52057
6134 11/12	339,986	TIFF	14/09/1999 8:11:16a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6143 4/5	533,266	TIFF	14/09/1999 8:41:16a.m.	Swamp	Swamp	Plan Of Adoptions Adjoining SOs 52049 52057

Plan	Size	Format	Date/Time	Road	Type	Title
6146 8/11	286,018	TIFF	14/09/1999 8:11:00a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6159 2/9	1,661,978	TIFF	14/09/1999 8:42:16a.m.	Heaton Swamp	Swamp	Plan Of Adoptions Adjoining SOs 52049 52057
6160 9/10	301,138	TIFF	14/09/1999 8:11:16a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6178 2/9	330,026	TIFF	14/09/1999 8:11:00a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6178 1/2	474,834	TIFF	14/09/1999 8:39:00a.m.	Hukerenui Jordan-Valley Heaton	Swamp	Plan Of Adoptions Adjoining SOs 52049 52057
6199 7/8	240,962	TIFF	14/09/1999 8:11:16a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6203 2/7	776,258	TIFF	14/09/1999 8:39:00a.m.	Heaton Hukerenui Jordan-Valley	Swamp	Plan Of Land Required For River Control & Severance
6227 5/7	274,874	TIFF	14/09/1999 8:11:16a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6236 1/3	972,506	TIFF	14/09/1999 8:39:00a.m.	Rushbrook Jordan-Valley	Swamp	Plan Of Land Required For Wairua River Control & Severance
6264 5/6	260,906	TIFF	14/09/1999 8:09:32a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6282 3/5	481,106	TIFF	14/09/1999 8:39:32a.m.	Coote Matarau Lovell Otakairangi	Swamp	Plan Of Land Required For River Control & Severance
6316 4/5	256,018	TIFF	14/09/1999 8:11:32a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6352	1,201,818	TIFF	14/09/1999 8:39:00a.m.	Rushbrook	Swamp	Plan Of Land Required For Wairua River Control & Severance
6352	1,171,146	TIFF	14/09/1999 8:39:32a.m.	Rushbrook	Swamp	Plan Of Land Required For Wairua River Control & Severance
6394 3/4	204,586	TIFF	14/09/1999 8:09:48a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6467 2/3	1,092,354	TIFF	14/09/1999 8:38:32a.m.		Swamp	Plan Of Land Required For Wairua River Control & Severance
6524 2/3	354,650	TIFF	14/09/1999 8:11:32a.m.		Swamp	Plan Of Land To Be Taken For Wairua River Control
6699	952,698	TIFF	14/09/1999 8:37:48a.m.		Swamp	Plan Of Land Required For Wairua River Control & Severance
7393	959,930	TIFF	14/09/1999 8:39:16a.m.		Swamp	Plan Of Land Required For Wairua River Control & Severance
7564	251,882	TIFF	14/09/1999 8:10:16a.m.	Jordan-Valley	Swamp	Plan Of Land To Be Taken For Severance Wairua River
1001 6005	101,770	TIFF	14/09/1999 8:05:16a.m.		Swamp	Hollowcore beams for Okarika pumping station
1002 6005	81,474	TIFF	14/09/1999 8:05:32a.m.	Jordan-Valley	Swamp	Hikurangi Swamp major scheme proposed barn site Jordan-Valley Rd
1003/1 6005	335,778	TIFF	2/09/1999 8:07:16a.m.	Jordan-Valley S-H-1 Apotu	Swamp	Hikurangi Swamp Apotu stream upgrading
1003/2 6005	283,066	TIFF	2/09/1999 8:07:00a.m.		X-section Swamp	Hikurangi Swamp Apotu stream upgrading X-section
1004/1 6005	535,690	TIFF	2/09/1999 8:07:16a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Maori drain Tanekaha plan and longitudinal section
1004/2 6005	371,802	TIFF	2/09/1999 8:07:00a.m.		X-section Swamp	Hikurangi Swamp Maori drain Tanekaha cross sections
1004/3 6005	271,026	TIFF	2/09/1999 8:06:32a.m.		X-section Swamp	Hikurangi Swamp Maori drain Tanekaha cross sections
1005/1 6005	268,098	TIFF	2/09/1999 1:23:00p.m.		Swamp	Left control bank Jordan junction reconstruction of drain behind bank
1005/2 6005	223,586	TIFF	2/09/1999 1:23:00p.m.		Swamp	left control bank Jordan - junction reconstruction of drain behind bank
1005/3 6005	179,498	TIFF	2/09/1999 1:22:32p.m.		Swamp	Left control bank Jordan junction reconstruction of drain behind bank
1005/4 6005	152,850	TIFF	2/09/1999 1:31:00p.m.		Swamp	Left control bank Jordan junction reconstruction of drain behind bank
1006/1 6005	463,626	TIFF	2/09/1999 11:39:32a.m.	Jordan-Valley	Swamp	Smiths drain reconstruction Tanekaha area
1006/2 6005	267,338	TIFF	2/09/1999 11:35:16a.m.		Swamp	Smiths drain reconstruction Tanekaha area
1007/1 6005	261,402	TIFF	2/09/1999 11:31:00a.m.	Jordan-Valley Apotu	Swamp	Hikurangi Swamp mountain pumping station site plan
1007/10 6005	390,146	TIFF	2/09/1999 1:49:48p.m.		Swamp	Hikurangi Swamp mountain pumping station control house & walking details
1007/11 6005	483,434	TIFF	2/09/1999 1:51:32p.m.		Swamp	Hikurangi Swamp Mountain pumping station reinforcing steel schedule
1007/12 6005	500,970	TIFF	2/09/1999 1:51:16p.m.		Swamp	Hikurangi Swamp mountain pump reinforcing steel schedule outlet structure & portal frame

Plan	Size	Format	Date/Time	Road	Type	Title
1007/13 6005	251,402	TIFF	2/09/1999 1:48:48p.m.		Swamp	Hikurangi Swamp mountain pumping station portal frame beam & fixing details
1007/14 6005	275,626	TIFF	2/09/1999 1:41:48p.m.		Swamp	Hikurangi Swamp mountain pumping station alternative steel portals for control house
1007/2 6005	456,826	TIFF	2/09/1999 8:02:00a.m.		Swamp	Hikurangi Swamp mountain pumping station general layout
1007/2a 6005	284,218	TIFF	2/09/1999 11:35:32a.m.		Swamp	Hikurangi Swamp mountain pumping station site excavation and pipe jacking
1007/2b 6005	362,034	TIFF	2/09/1999 8:03:48a.m.		Swamp	Hikurangi Swamp mountain pumping station inlet & outlet structures
1007/4 6005	676,290	TIFF	2/09/1999 11:31:48a.m.		Swamp	Hikurangi Swamp mountain pumping station floor - upper layer reinforcing details
1007/5 6005	371,914	TIFF	2/09/1999 1:47:00p.m.		Swamp	Hikurangi Swamp mountain pumping station side wall reinforcing details Hikurangi Swamp mountain pumping station screen beam - partition wall - transverse wall reinforcing details
1007/6 6005	661,938	TIFF	2/09/1999 8:13:32a.m.		Swamp	
1007/7 6005	395,794	TIFF	2/09/1999 1:47:32p.m.		Swamp	Hikurangi Swamp mountain pumping station floor - outlet structure reinforcing details Hikurangi Swamp mountain pumping station transverse wall side walls & front beam reinforcing details - outlet structure
1007/8 6005	533,194	TIFF	2/09/1999 8:19:16a.m.		Swamp	
1007/9 6005	290,586	TIFF	2/09/1999 1:39:00p.m.		Swamp	Hikurangi Swamp mountain pumping station control house portals reinforcing & steel joints details
1009/1 6005	368,658	TIFF	2/09/1999 1:45:16p.m.		Swamp	Mangawhero stream major reconstruction profile Mangahahuru stream Clarks bridge
1009/2 6005	172,458	TIFF	2/09/1999 1:46:32p.m.		Swamp	Mangawhero stream major reconstruction cross sections peg 1 - 10
1009/3 6005	189,650	TIFF	2/09/1999 1:44:16p.m.		Swamp	Mangawhero stream major reconstruction cross sections peg 11 - 22
1009/4 6005	176,450	TIFF	2/09/1999 1:43:00p.m.		Swamp	Mangawhero stream major reconstruction cross sections peg 23 - 37
1009/5 6005	197,754	TIFF	2/09/1999 1:43:48p.m.		Swamp	Mangawhero stream major reconstruction cross sections peg 38 - 58
1009/6 6005	203,338	TIFF	2/09/1999 1:43:48p.m.		Swamp	Mangawhero stream major reconstruction cross section peg 59 - 79
1009/7 6005	183,346	TIFF	2/09/1999 1:42:16p.m.		Swamp	Mangawhero stream major reconstruction cross sections peg 80 - 99
1009/8 6005	246,266	TIFF	2/09/1999 1:41:00p.m.		Swamp	Mangawhero stream major reconstruction enlarged plan showing protective stonewalling cross sections longitudinal section hotel drain
1009/9 6005	236,674	TIFF	2/09/1999 1:43:32p.m.		Swamp	Mangawhero stream diversion cut
1009/9 6005	204,482	TIFF	2/09/1999 1:41:16p.m.		Swamp	Mangawhero stream major reconstruction proposed diversion cut
1010/1 6005	291,346	TIFF	14/09/1999 7:00:32a.m.	Jordan-Valley Apotu	Swamp Bridge	Jordan bridge No 1038 general arrangement locality plan
1010/2 6005	1,275,378	TIFF	14/09/1999 7:01:16a.m.	Jordan-Valley	Swamp	Jordan-Valley bridge approaches
1010/3 6005	204,338	TIFF	14/09/1999 7:03:32a.m.		Swamp Bridge	Bridges 148 & 149 Proposed bridge strengthening & extensions for Hikurangi swamp major scheme
1010/4 6005	435,530	TIFF	14/09/1999 7:01:16a.m.		Swamp Bridge	Bridges 143 148 & 149 Proposed bridge strengthening & extensions for Hikurangi swamp major scheme
1011/1 6005	1,156,994	TIFF	13/09/1999 3:05:00p.m.	S-H-1	Swamp	S-H-1 RM 85 - 66 To 89 - 22 Waitutu and Waiariki bridges approaches alignment
1011/10 6005	310,530	TIFF	14/09/1999 6:58:16a.m.	S-H-1	Swamp	Waitutu river bridge Whangarei S-H-1
1011/11 6005	637,018	TIFF	14/09/1999 6:59:32a.m.	S-H-1	Swamp	Waiariki river bridge Whangarei S-H-1 RM 86.55 Soil profile
1011/2 6005	1,237,802	TIFF	13/09/1999 3:06:00p.m.	S-H-1	Swamp	S-H-1 RM85 - 66 to 89 - 22 Waitutu and Waiariki bridges approaches alignment
1011/3 6005	1,068,058	TIFF	13/09/1999 3:07:00p.m.	S-H-1	Swamp	S-H-1 RM 85 - 66 to 89 - 22 Waitutu and Waiariki bridges approaches alignment
1011/4 6005	1,008,762	TIFF	13/09/1999 3:06:00p.m.	S-H-1	Swamp	S-H-1 RM 85 - 66 to 89 - 22 Waitutu and Waiariki bridges approaches alignment
1011/5 6005	5,610,146	TIFF	13/09/1999 3:07:16p.m.	S-H-1	Swamp	Awanui Bluff S-H-1 site plan of proposed Waitutu river bridge
1011/6 6005	614,922	TIFF	13/09/1999 3:07:48p.m.	S-H-1	Swamp	Awanui Bluff S-H-1 site plan of proposed Waiariki river bridge
1011/7 6005	301,538	TIFF	13/09/1999 3:09:16p.m.	S-H-1	Swamp	S-H-1 RM 85.85 & 86.55 Waitutu & Waiariki river bridges initial proposals
1011/8 6005	705,162	TIFF	13/09/1999 3:09:16p.m.	S-H-1	Swamp	Awanui Bluff S-H-1 Waitutu Waiariki section contour plan at bridge 13 site RM 86.55
1011/9 6005	17,776,546	TIFF	13/09/1999 3:11:00p.m.	S-H-1	Swamp	Awanui Bluff S-H-1 Waitutu Waiariki section contour plan at bridge 14 site RM 85.85

Plan	Size	Format	Date/Time	Road	Type	Title
1012/1 6005	162,714	TIFF	13/09/1999 3:03:16p.m.		Swamp	Proposed new electrical reticulation for Hikurangi Swamp pumping scheme
1012/2 6005	184,866	TIFF	13/09/1999 3:03:48p.m.		Swamp	Proposed 11kv extension to Northland catchment commissions Te Mata & Junction pumps Hikurangi Swamp
1012/3 6005	184,554	TIFF	13/09/1999 3:04:00p.m.		Swamp	Proposed 11kv extension to Northland catchment commissions Te Mata & Junction pumps Hikurangi Swamp
1015 6005	594,682	TIFF	2/09/1999 1:41:32p.m.		Swamp	Hikurangi Swamp Works constructed 1970 - 1974 Works programme 1974 - 1976
1017 6005	222,714	TIFF	2/09/1999 11:30:32a.m.		Swamp	Wilsonville quarry proposed development April Farms Ltd Farm drainage
1018/1 6005	3,165,858	TIFF	13/09/1999 2:57:32p.m.	King	Storm Swamp	State highway improvements Plan & Section
1018/2 6005	197,186	TIFF	13/09/1999 2:59:16p.m.	King	Storm Swamp	State highway improvements Plan & Section King St Stormwater Outlet
1018/3 6005	444,362	TIFF	13/09/1999 2:59:48p.m.	Valley	Storm Swamp	Improvements to Valley Road East of Railway Line Plan Showing Proposed Work
1018/4 6005	493,434	TIFF	13/09/1999 2:59:16p.m.	Valley	Swamp Storm	Improvements to Valley Road East of Railway Line
1018/5 6005	786,754	TIFF	13/09/1999 2:59:16p.m.	Valley	Swamp	Improvements to Valley Road east of Railway Line Longsection North Side
1018/6 6005	1,313,802	TIFF	13/09/1999 3:03:16p.m.		Storm Swamp	Valley Road improvements Stormwater Outlets To Mangawhero Stream
1018/7 6005	1,517,578	TIFF	13/09/1999 3:03:00p.m.	Valley	Storm Swamp	Stormwater Scheme Valley Road improvements Hikurangi
1018/8 6005	571,538	TIFF	13/09/1999 3:01:16p.m.	Valley	Storm Swamp	Improvements to Valley Road east of Railway line Hikurangi Details Outlet
1018/9 6005	8,365,482	TIFF	13/09/1999 3:02:32p.m.	Valley	Storm Swamp	Valley Road improvements Hikurangi Details
1022 6005	279,026	TIFF	2/09/1999 11:27:48a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Mountain drain reconstruction mountain pocket
1023 6005	201,978	TIFF	2/09/1999 1:31:32p.m.	Old-Loop Jordan-Valley	Swamp	Hikurangi Swamp Palmers drain reconstruction mountain pocket
1023/1 6005	60,799	TIFF	16/09/1999 7:27:16a.m.		Contour Swamp	Hikurangi Swamp Takahiwai catchment
1023/2 6005	90,038	TIFF	16/09/1999 7:27:16a.m.		Contour Swamp	Hikurangi Swamp Takahiwai catchment
1023/3 6005	97,466	TIFF	16/09/1999 7:27:16a.m.		Contour Swamp	Hikurangi Swamp Takahiwai catchment
1023/4 6005	99,951	TIFF	16/09/1999 7:27:32a.m.		Contour Swamp	Hikurangi Swamp Takahiwai catchment
1023/5 6005	128,562	TIFF	16/09/1999 7:27:32a.m.		Contour Swamp	Hikurangi Swamp Takahiwai catchment
1023/6 6005	56,039	TIFF	16/09/1999 7:27:32a.m.		Contour Swamp	Hikurangi Swamp Takahiwai catchment
1024 6005	212,514	TIFF	2/09/1999 1:46:32p.m.		Swamp	Pikes drain reconstruction mountain pocket
1025/10 6005	336,826	TIFF	2/09/1999 2:03:32p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station control house & walkway details
1025/11 6005	140,274	TIFF	2/09/1999 2:06:00p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station reinforcing schedule inlet structure
1025/12 6005	389,682	TIFF	2/09/1999 2:03:48p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station reinforcing schedule outlet structure & portal frame & beam
1025/13 6005	248,730	TIFF	2/09/1999 2:03:32p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station steel portal for control house alternative
1025/1a 6005	211,506	TIFF	2/09/1999 1:47:00p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station site excavation and pipe jacking
1025/1b 6005	328,746	TIFF	2/09/1999 8:11:00a.m.		Swamp	Hikurangi Swamp Tanekaha pumping station inlet & outlet structures
1025/2 6005	100,722	TIFF	2/09/1999 2:11:00p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station inlet floor - lower layer reinforcing details
1025/3 6005	97,882	TIFF	2/09/1999 2:11:48p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station inlet floor upper layer reinforcing details
1025/4 6005	142,170	TIFF	2/09/1999 2:11:16p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station side walls inlet structure reinforcing details
1025/5 6005	595,426	TIFF	2/09/1999 8:19:16a.m.		Swamp	Hikurangi Swamp Tanekaha pumping station partition wall transverse wall screen beam reinforcing details
1025/6 6005	108,122	TIFF	2/09/1999 2:11:48p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station outlet structure floor reinforcing details
1025/7 6005	91,378	TIFF	2/09/1999 2:11:00p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station outlet structure side walls & front beam reinforcing details
1025/8 6005	518,450	TIFF	2/09/1999 8:19:48a.m.		Swamp	Hikurangi Swamp Tanekaha pumping station outlet structure transverse wall reinforcing details

Plan	Size	Format	Date/Time	Road	Type	Title
1025/9 6005	338,842	TIFF	2/09/1999 2:03:16p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station control house portal frame & beam reinforcing details & steel joints fixing details
1026/1 6005	358,202	TIFF	2/09/1999 1:47:48p.m.		Swamp	Hikurangi Swamp upper Whakapara tributaries proposed channel works
1026/10 6005	174,402	TIFF	2/09/1999 1:59:48p.m.		Swamp	Hikurangi Swamp upper Whakapara river cross section A2 & A7
1026/11 6005	182,274	TIFF	2/09/1999 1:55:00p.m.		Swamp	Hikurangi Swamp upper Whakapara river cross section AP1 to B3
1026/12 6005	179,578	TIFF	2/09/1999 1:53:48p.m.		Swamp	Upper Whakapara river cross section B4 to C2
1026/13 6005	173,514	TIFF	2/09/1999 1:55:32p.m.		Swamp	Hikurangi Swamp Upper Whakapara river cross section C3 to D3
1026/14 6005	177,146	TIFF	2/09/1999 1:53:32p.m.		Swamp	Hikurangi Swamp Upper Whakapara river cross section D4 to E1
1026/15 6005	177,242	TIFF	2/09/1999 1:55:00p.m.		Swamp	Hikurangi Swamp upper Whakapara river cross section E2 to AP5
1026/16 6005	181,122	TIFF	2/09/1999 1:53:00p.m.		Swamp	Hikurangi Swamp upper Whakapara river cross section F1 to F6
1026/17 6005	182,746	TIFF	2/09/1999 1:53:16p.m.		Swamp	Hikurangi Swamp upper Whakapara river cross section F7 to F12
1026/18 6005	177,730	TIFF	2/09/1999 1:51:00p.m.		Swamp	Hikurangi Swamp upper Whakapara river cross section F13 to F18
1026/19 6005	170,290	TIFF	2/09/1999 1:51:00p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section F19 to G1
1026/2 6005	207,002	TIFF	2/09/1999 2:03:00p.m.		Swamp	Hikurangi Swamp upper Whakapara proposed channel works
1026/20 6005	187,346	TIFF	2/09/1999 1:51:32p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section G2 to G7
1026/21 6005	181,818	TIFF	2/09/1999 1:51:48p.m.		Swamp	Hikurangi Swamp Kaikanui river cross sections G8 to H2
1026/22 6005	192,362	TIFF	2/09/1999 1:51:16p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section H3 to H8
1026/23 6005	189,826	TIFF	2/09/1999 1:50:00p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section H9 to H14
1026/24 6005	174,354	TIFF	2/09/1999 1:51:48p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section H15 to I1
1026/25 6005	45,978	TIFF	2/09/1999 2:09:16p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section I2 to I6
1026/26 6005	50,194	TIFF	2/09/1999 2:07:48p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section I7 to J3
1026/27 6005	48,546	TIFF	2/09/1999 2:07:32p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section AP10 to K3
1026/28 6005	44,610	TIFF	2/09/1999 2:07:32p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section K4 to AP11
1026/29 6005	47,034	TIFF	2/09/1999 2:07:32p.m.		Swamp	Hikurangi Swamp Kaikanui river cross section AP11 to L4
1026/3 6005	199,666	TIFF	2/09/1999 2:03:48p.m.		Swamp	Hikurangi Swamp Kaimamaku stream proposed channel works
1026/30 6005	38,714	TIFF	2/09/1999 2:07:00p.m.		Swamp	Hikurangi Swamp Kaikanui river cross sections L5 to L7
1026/31 6005	42,162	TIFF	2/09/1999 2:07:00p.m.		Swamp	Hikurangi Swamp Kaikanui river CS M2 M5
1026/32 6005	39,498	TIFF	2/09/1999 2:07:48p.m.		Swamp	Hikurangi Swamp Kaimamaku stream cross sections N1 N5
1026/33 6005	41,058	TIFF	2/09/1999 2:07:16p.m.		Swamp	Hikurangi Swamp Kaimamaku stream cross sections AP13 O3
1026/34 6005	42,274	TIFF	2/09/1999 2:05:16p.m.		Swamp	Hikurangi Swamp Kaimamaku stream cross sections O4 P2
1026/35 6005	43,498	TIFF	2/09/1999 2:07:16p.m.		Swamp	Kaimamaku stream cross sections P3 P8
1026/36 6005	45,546	TIFF	2/09/1999 2:05:48p.m.		Swamp	Hikurangi Swamp Kaimamaku stream cross sections AP15 - AP16
1026/37 6005	38,386	TIFF	2/09/1999 2:07:16p.m.		Swamp	Hikurangi Swamp Kaimamaku stream cross sections R1 to R3
1026/4 6005	205,938	TIFF	2/09/1999 2:03:16p.m.		Swamp	Hikurangi Swamp Kaikanui river proposed channel works
1026/5 6005	215,554	TIFF	2/09/1999 2:03:00p.m.		Swamp	Hikurangi Swamp Kaikanui river proposed channel works
1026/6 6005	192,994	TIFF	2/09/1999 2:03:16p.m.		Swamp	Hikurangi Swamp Kaikanui river proposed channel works
1026/7 6005	310,530	TIFF	2/09/1999 2:01:16p.m.		Swamp	Hikurangi Swamp upper Whakapara & Kaikanui river longitudinal sections
1026/8 6005	305,586	TIFF	2/09/1999 2:02:48p.m.		Swamp	Hikurangi Swamp Kaikanui river longitudinal sections

Plan	Size	Format	Date/Time	Road	Type	Title
1026/9 6005	326,202	TIFF	2/09/1999 2:00:32p.m.		Swamp	Hikurangi Swamp Kaikanui river & Kaimamaku stream longitudinal sections
1028 6005	65,858	TIFF	2/09/1999 2:05:00p.m.		Swamp	Hikurangi Swamp Wilkinson outlet drain redirection to Otonga stream
1029/1 6005	55,090	TIFF	14/09/1999 7:27:00a.m.		Swamp	Crib wall positions Okarika pumping station
1029/2 6005	120,890	TIFF	14/09/1999 7:25:16a.m.		Swamp	Details of crib walls outlet end Okarika pump stn
105 6005	94,642	TIFF	14/09/1999 7:42:00a.m.		Swamp	Hikurangi Swamp Waitutu river showing positions of willows
106 6005	86,810	TIFF	14/09/1999 7:41:48a.m.	S-H-1	Swamp	Hikurangi Swamp Waitutu river showing positions of willows
1064/C 6005	121,300	TIFF	27/01/2000 10:59:24a.m.		Swamp	Northland Catchment Commission Hikurangi Major Scheme
107 6005	58,914	TIFF	14/09/1999 7:43:00a.m.		Swamp	Hikurangi Swamp Waitutu River Showing Position Of Willows
108 6005	65,786	TIFF	14/09/1999 7:43:00a.m.		Swamp	Hikurangi Swamp Whakapara river showing positions of willows
1084/1/C 6005	166,000	TIFF	24/01/2000 3:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme
1084/2/C 6005	155,176	TIFF	24/01/2000 3:37:32p.m.		Swamp	Hikurangi Swamp Major Scheme Site Plan Control Banks Wairua River Lewis Bridge Jordan Bridge
1084/3/C 6005	248,304	TIFF	24/01/2000 3:37:48p.m.		Swamp	Hikurangi Swamp Major Scheme Left Control Bank Lewis Bridge Jordan Bridge Oft - 5270.5ft
1084/4/C 6005	105,058	TIFF	24/01/2000 3:37:48p.m.	Rushbrook Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Left Control Bank Lewis Bridge Jordan Bridge 5270.5ft - 6129.7ft
1084/5/C 6005	73,202	TIFF	24/01/2000 3:37:16p.m.		Swamp	Hikurangi Swamp Major Scheme Typical Cross Section of Berm Borrow Area
1084/6/C 6005	109,006	TIFF	24/01/2000 3:39:32p.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme Mangahahuru Canal Wairua River Maruarua Stream Proposed Left Stopbank
1086 6005	388,218	TIFF	2/09/1999 8:19:00a.m.		Swamp	Hikurangi Swamp details of walk way for small pumping stations
1087 6005	339,890	TIFF	2/09/1999 2:33:32p.m.		Swamp	Northland catchment commission Hikurangi Swamp Major Scheme works constructed 1970 - 1974 Works programme 1974 - 1978
1087/b 6005	384,106	TIFF	2/09/1999 2:43:32p.m.		Swamp	Hikurangi Swamp Major Scheme
1088 6005	204,914	TIFF	2/09/1999 2:41:16p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station site plan
1089/1 6005	227,146	TIFF	2/09/1999 2:37:16p.m.	S-H-1 Vinegar-Hill	Swamp	Hikurangi Swamp Kauri drain
1089/2 6005	169,810	TIFF	2/09/1999 2:37:48p.m.		Swamp	Hikurangi Swamp Kauri drain
1089/3 6005	158,898	TIFF	2/09/1999 2:35:00p.m.		Swamp	Hikurangi Swamp Kauri drain
109 6005	71,738	TIFF	14/09/1999 7:41:48a.m.		Swamp	Hikurangi Swamp Whakapara river showing positions of willows
1090/1 6005	276,690	TIFF	2/09/1999 2:35:00p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Otonga pumping station setting out site details
1090/10 6005	599,698	TIFF	2/09/1999 2:35:00p.m.		Swamp	Hikurangi Swamp Otonga pumping station floor slab outlet end top layer reinforcing details
1090/11 6005	279,882	TIFF	2/09/1999 2:34:48p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Otonga pumping station floor sections 1 2 & 3 Reinforcing details
1090/12 6005	287,178	TIFF	2/09/1999 2:34:32p.m.		Swamp	Hikurangi Swamp Otonga pumping station inlet side section 4 & 5 reinforcing details
1090/13 6005	267,242	TIFF	2/09/1999 2:33:48p.m.		Swamp	Hikurangi Swamp Otonga pumping station floor sections reinforcing details
1090/14 6005	237,002	TIFF	2/09/1999 2:34:00p.m.		Swamp	Hikurangi Swamp Otonga pumping station floor slab outlet sides sections reinforcing details
1090/15 6005	413,658	TIFF	2/09/1999 2:31:32p.m.		Swamp	Hikurangi Swamp Otonga pumping station gravity race walls reinforcing details
1090/16 6005	309,362	TIFF	2/09/1999 2:30:16p.m.		Swamp	Hikurangi Swamp Otonga pumping station pump partition wall and roof over gravity race
1090/17 6005	506,794	TIFF	2/09/1999 2:30:00p.m.		Swamp	Hikurangi Swamp Otonga pumping station transverse wall elevation inlet side reinforcing details
1090/18 6005	612,434	TIFF	2/09/1999 8:21:32a.m.		Swamp	Hikurangi Swamp Otonga pumping station transverse wall elevation outlet side reinforcing details

Plan	Size	Format	Date/Time	Road	Type	Title
1090/19 6005	412,850	TIFF	2/09/1999 2:31:48p.m.		Swamp	Hikurangi Swamp Otonga pumping station side wall in front of screens reinforcing detail
1090/2 6005	379,682	TIFF	2/09/1999 8:19:00a.m.		Swamp	Hikurangi Swamp Otonga pumping station views of finished station
1090/20 6005	122,890	TIFF	2/09/1999 2:11:00p.m.		Swamp	Hikurangi Swamp Otonga pumping station side wall earth face reinforcing details
1090/21 6005	454,482	TIFF	2/09/1999 2:35:16p.m.		Swamp	Hikurangi Swamp Otonga pumping station side wall water face reinforcing detail
1090/22 6005	514,978	TIFF	2/09/1999 2:33:00p.m.		Swamp	Hikurangi Swamp Otonga pumping station wall sections counterforts and horizontal wall beams
1090/23 6005	448,506	TIFF	2/09/1999 2:33:48p.m.		Swamp	Hikurangi Swamp Otonga pumping station screenings deck & beams reinforcing details
1090/24 6005	343,026	TIFF	2/09/1999 2:31:48p.m.		Swamp	Hikurangi Swamp Otonga pumping station screening deck & Beam sections reinforcing detail
1090/25 6005	147,794	TIFF	2/09/1999 2:13:00p.m.		Swamp	Hikurangi Swamp Otonga pumping station reinforcing steel schedule
1090/26 6005	140,962	TIFF	2/09/1999 2:15:16p.m.		Swamp	Hikurangi Swamp Otonga pumping station reinforcing steel schedule
1090/27 6005	144,066	TIFF	2/09/1999 2:12:48p.m.		Swamp	Hikurangi Swamp Otonga pumping station reinforcing steel schedule
1090/28 6005	117,642	TIFF	2/09/1999 2:11:16p.m.		Swamp	Hikurangi Swamp Otonga pumping station reinforcing steel schedule
1090/3 6005	330,570	TIFF	2/09/1999 8:11:48a.m.		Swamp	Hikurangi Swamp Otonga pumping station floor plan concrete dimensions
1090/4 6005	340,410	TIFF	2/09/1999 8:11:32a.m.		Swamp	Hikurangi Swamp Otonga pumping station dimensions of concrete
1090/5 6005	476,562	TIFF	2/09/1999 8:22:16a.m.		Swamp	Hikurangi Swamp Otonga pumping station dimensions of concrete
1090/6 6005	325,058	TIFF	2/09/1999 8:21:32a.m.		Swamp	Hikurangi Swamp Otonga pumping station dimension of concrete
1090/7 6005	494,842	TIFF	2/09/1999 2:29:32p.m.		Swamp	Hikurangi Swamp Otonga pumping station floor slab inlet end bottom layers reinforcing details
1090/8 6005	414,170	TIFF	2/09/1999 2:27:32p.m.		swamp	Hikurangi Swamp Otonga pumping station floor slab inlet end top layer reinforcing details
1090/9 6005	637,634	TIFF	2/09/1999 2:27:48p.m.		Swamp	Hikurangi Swamp Otonga pumping station floor slab Outlet end bottom layers reinforcing details
1091/1 6005	363,346	TIFF	2/09/1999 2:35:48p.m.		Swamp	1.8m by 1.8m steel floodgate dimensions Hikurangi Swamp Major Scheme
1091/2 6005	249,282	TIFF	2/09/1999 2:35:48p.m.		Swamp	1.8m by 1.8m steel floodgate dimensions Hikurangi Swamp Major Scheme
1091/3 6005	62,650	TIFF	2/09/1999 2:26:48p.m.		Swamp	Hikurangi Swamp floodgate hinge assembly dimension details
1092/1 6005	303,538	TIFF	2/09/1999 2:27:16p.m.		Swamp	Hikurangi Swamp Otonga & Te Mata pumping station deck & precast hollow core beams
1092/2 6005	230,338	TIFF	2/09/1999 2:25:16p.m.		Swamp	Hikurangi Swamp Te Mata & Otonga pumping stations control gear & transformer house
1093/1 6005	163,890	TIFF	2/09/1999 2:27:00p.m.		Swamp	800m taper to pipe connection piece s482 pumps pipe outlets
1093/2 6005	82,434	TIFF	14/09/1999 7:25:00a.m.		Swamp	Hikurangi Swamp 800mm flap gate puddle flange
1095/1 6005	259,162	TIFF	2/09/1999 2:27:48p.m.	Forsythe	Swamp	Te Mata Pumping Station Setting Out Details
1095/10 6005	132,778	TIFF	2/09/1999 2:11:00p.m.		Swamp	Te Mata Pumping Station Rear Floor Top Layer Reinforcing Details
1095/11 6005	100,730	TIFF	2/09/1999 2:09:00p.m.		Swamp	Te Mata Pumping Station Front Side Walls Reinforcing Details
1095/12 6005	483,010	TIFF	2/09/1999 12:07:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station transverse wall inlet side reinforcing details
1095/13 6005	522,346	TIFF	2/09/1999 8:15:32a.m.		Swamp	Hikurangi Swamp Te Mata pumping station transverse wall outlet side reinforcing details
1095/14 6005	536,114	TIFF	2/09/1999 12:09:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station gravity race walls
1095/15 6005	371,434	TIFF	2/09/1999 12:10:32p.m.		Swamp	Hikurangi Swamp Te Mata pumping station pump bay partition wall & gravity race roof
1095/16 6005	356,682	TIFF	2/09/1999 12:08:16p.m.		Swamp	Hikurangi Swamp Te Mata pumping station weed screen deck & side wall horizontal beam
1095/17 6005	330,914	TIFF	2/09/1999 12:07:32p.m.		Swamp	Hikurangi Swamp Te Mata pumping station side walls water face
1095/18 6005	347,458	TIFF	2/09/1999 12:11:16p.m.		Swamp	Hikurangi Swamp Te Mata pumping station side wall earth face reinforcing details
1095/19 6005	692,074	TIFF	2/09/1999 12:10:48p.m.		Swamp	Hikurangi Swamp Te Mata pumping station cross section A - A & B - B
1095/2 6005	61,914	TIFF	2/09/1999 8:21:16a.m.		Swamp	Hikurangi Swamp Te Mata pumping station general arrangement
1095/20 6005	419,730	TIFF	2/09/1999 12:11:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station cross section C - C reinforcing details

Plan	Size	Format	Date/Time	Road	Type	Title
1095/21 6005	355,306	TIFF	2/09/1999 12:09:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station cross sections D - D
1095/22 6005	378,066	TIFF	2/09/1999 12:11:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station cross section E - E
1095/23 6005	296,794	TIFF	2/09/1999 12:11:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station cross section F - F
1095/24 6005	461,594	TIFF	2/09/1999 12:11:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station rear cut off wall & longitudinal section H.H.
1095/25 6005	528,002	TIFF	2/09/1999 12:11:16p.m.		Swamp	Hikurangi Swamp Te Mata pumping station longitudinal sections reinforcing details
1095/26 6005	162,274	TIFF	2/09/1999 12:13:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station reinforcing steel schedule
1095/27 6005	149,682	TIFF	2/09/1999 12:13:48p.m.		Swamp	Hikurangi Swamp Te Mata pumping station reinforcing schedule
1095/28 6005	146,114	TIFF	2/09/1999 12:11:48p.m.		Swamp	Hikurangi Swamp Te Mata pumping station reinforcing steel schedule
1095/29 6005	85,050	TIFF	2/09/1999 12:11:16p.m.		Swamp	Hikurangi Swamp Te Mata pumping station reinforcing steel schedule
1095/3 6005	349,858	TIFF	2/09/1999 8:10:48a.m.		Swamp	Hikurangi Swamp Te Mata pumping station floor plan concrete dimensions
1095/4 6005	520,066	TIFF	2/09/1999 8:11:16a.m.		Swamp	Hikurangi Swamp Te Mata pumping station dimensions of concrete
1095/5 6005	390,370	TIFF	2/09/1999 2:27:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station dimensions of concrete
1095/6 6005	690,618	TIFF	2/09/1999 8:15:32a.m.		Swamp	Hikurangi Swamp Te Mata pumping station dimensions of concrete
1095/7 6005	131,658	TIFF	2/09/1999 2:09:00p.m.		Swamp	Hikurangi Swamp Te Mata pumping station front floor bottom layer
1095/8 6005	110,802	TIFF	2/09/1999 2:11:48p.m.		Swamp	Hikurangi Swamp Te Mata pumping station front floor top layer reinforcing details
1095/9 6005	132,594	TIFF	2/09/1999 2:09:48p.m.		Swamp	Hikurangi Swamp Te Mata pumping station rear floor bottom layer reinforcing details
1096 6005	470,482	TIFF	2/09/1999 8:17:00a.m.		Swamp	Hikurangi Swamp Otonga & Te Mata pumping station protective works
1097/1 6005	666,762	TIFF	2/09/1999 12:57:00p.m.		Swamp	Waiotu & Whakapara river progress chart
1097/2 6005	546,226	TIFF	2/09/1999 12:58:32p.m.		Swamp	Hikurangi Swamp Tanekaha & Mountain pumping station progress chart
1097/3 6005	75,154	TIFF	2/09/1999 12:55:32p.m.		Swamp	Hikurangi Swamp Te Mata & Otonga pumping station progress chart
1097/4 6005	82,666	TIFF	2/09/1999 12:55:00p.m.		Swamp	Hikurangi Swamp Okarika & Ngararatunua pumping station progress chart
1098 6005	308,802	TIFF	2/09/1999 12:13:48p.m.	S-H-1	Swamp	Confluence of Waiotu & Wiariki River
1099 6005	295,538	TIFF	2/09/1999 12:14:00p.m.		Swamp	Hikurangi Swamp Mountain & Tanekaha pumping stations details of steelwork
110 6005	98,810	TIFF	14/09/1999 7:42:48a.m.		Swamp	Hikurangi Swamp Kimamaku and Kaikanui rivers positions of willows
1107/3 6005	817,890	TIFF	2/09/1999 11:31:16a.m.		Swamp	Hikurangi Swamp Mountain pumping station floor lower layer reinforcing details
111 6005	69,170	TIFF	14/09/1999 7:41:32a.m.		Swamp	Hikurangi Swamp Waipuakakahau stream positions of willows
1111 6005	424,994	TIFF	2/09/1999 12:13:32p.m.		Swamp	Hikurangi Swamp Sheet piling cut off wall for Te Mata and Otonga pumping station
1112/1 6005	89,794	TIFF	2/09/1999 12:15:16p.m.	Valley Rushbrook	Swamp	Hikurangi Swamp Maori drain Tanekaha redirected to Tanekaha pumping station
1112/2 6005	99,154	TIFF	2/09/1999 12:58:48p.m.		Swamp	Hikurangi Swamp Maori drain Tanekaha redirected to Tanekaha pumping station
1112/3 6005	62,490	TIFF	2/09/1999 12:57:16p.m.		Swamp	Hikurangi Swamp - Maori drain Tanekaha redirected to - Tanekaha pumping station
1112/4 6005	66,706	TIFF	2/09/1999 12:59:00p.m.		Swamp	Hikurangi Swamp Maori drain Tanekaha redirected to Tanekaha pumping station
1113/1 6005	367,202	TIFF	2/09/1999 12:59:00p.m.		Swamp	Hikurangi Swamp upper Waiotu floodway bridges dimensions and general arrangement
1113/2 6005	486,746	TIFF	2/09/1999 2:42:32p.m.		Swamp	Hikurangi Swamp upper waiotu floodway bridges pier details
1113/3 6005	754,290	TIFF	2/09/1999 1:31:32p.m.		Swamp Bridge	Hikurangi Swamp upper waiotu floodway bridges details of abutments and beam units
1113/4 6005	315,850	TIFF	2/09/1999 1:27:48p.m.	Crows-Nest S-H-1	Swamp	Hikurangi Swamp upper Waiotu proposed floodway showing bridge sites & low level crossings
1113/5 6005	152,674	TIFF	14/09/1999 7:27:16a.m.		Swamp	Hikurangi Swamp upper Waiotu floodway bridges details of alternative precast concrete piles
1114/1 6005	271,826	TIFF	2/09/1999 1:27:00p.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations gravity outlet - flap - gate
1118/1 6005	311,834	TIFF	2/09/1999 1:27:48p.m.	S-H-1	Swamp	Hikurangi Swamp Junction pumping station site plan

Plan	Size	Format	Date/Time	Road	Type	Title
1118/10 6005	670,034	TIFF	2/09/1999 2:41:16p.m.		Swamp	Hikurangi Swamp Junction pumping station outlet structure - side walls reinforcing details
1118/11 6005	503,018	TIFF	2/09/1999 11:57:16a.m.		Swamp	Hikurangi Swamp Junction pumping station outlet structure - transverse wall reinforcing details
1118/12 6005	369,746	TIFF	2/09/1999 1:29:32p.m.		Swamp	Hikurangi Swamp Junction pumping station details of portal frames and gantry beams
1118/13 6005	316,162	TIFF	2/09/1999 1:31:16p.m.		Swamp	Hikurangi Swamp Junction pumping station control house details
1118/14 6005	265,418	TIFF	2/09/1999 11:59:16a.m.		Swamp	Hikurangi Swamp Junction pumping station walkway details
1118/15 6005	316,066	TIFF	2/09/1999 11:57:32a.m.		Swamp	Hikurangi Swamp dimensions and details of jacked pipes junction pumping station
1118/16 6005	482,514	TIFF	2/09/1999 11:58:00a.m.		Swamp	Hikurangi Swamp junction pumping station inlet structure reinforcing steel schedule
1118/17 6005	472,442	TIFF	2/09/1999 11:59:00a.m.		Swamp	Hikurangi Swamp Junction pumping station inlet outlet structure reinforcing steel schedule
1118/18 6005	495,450	TIFF	2/09/1999 8:17:32a.m.		Swamp	Hikurangi Swamp Junction pumping station pipeline details for 'Open-cut' construction
1118/2 6005	604,778	TIFF	2/09/1999 8:11:00a.m.		Swamp	Hikurangi Swamp Junction pumping station dimensions of inlet structure
1118/3 6005	417,178	TIFF	2/09/1999 8:19:16a.m.		Swamp	Hikurangi Swamp Junction pumping station dimensions of outlet structure
1118/4 6005	566,026	TIFF	2/09/1999 1:29:32p.m.		Swamp	Hikurangi Swamp Junction pumping station inlet structure - floor slab - bottom layers reinforcing details
1118/5 6005	633,474	TIFF	2/09/1999 1:27:48p.m.		Swamp	Hikurangi Swamp Junction pumping station inlet structure - floor slab - top layer reinforcing details
1118/6 6005	682,058	TIFF	2/09/1999 1:29:00p.m.		Swamp	Hikurangi Swamp Junction pumping station inlet structure - side walls reinforcing details Hikurangi Swamp Junction pumping station inlet structure - division wall & screen beam reinforcing details
1118/7 6005	461,514	TIFF	2/09/1999 2:41:32p.m.		Swamp	Hikurangi Swamp Junction pumping station inlet structure - transverse wall reinforcing details
1118/8 6005	422,554	TIFF	2/09/1999 2:41:16p.m.		Swamp	Hikurangi Swamp Junction pumping station inlet structure - transverse wall reinforcing details
1118/9 6005	603,490	TIFF	2/09/1999 2:43:48p.m.		Swamp	Hikurangi Swamp Junction pumping station outlet structure - floor slab reinforcing details
1119 6005	121,970	TIFF	2/09/1999 11:59:32a.m.		Swamp	Hikurangi Swamp Otonga & Te Mata pumping stations details of steelwork
112 6005	180,586	TIFF	14/09/1999 7:40:32a.m.		Swamp	Hikurangi Swamp Schedule of willows in the Waitutu river
1120/1 6005	72,106	TIFF	2/09/1999 12:07:00p.m.		Swamp	Hikurangi Swamp Te-Mata pocket access bridge for AP Watson
1120/2 6005	85,962	TIFF	2/09/1999 12:07:00p.m.		Swamp Bridge	Hikurangi Swamp Te Mata pocket access bridge for A P Watson
1121 6005	99,738	TIFF	2/09/1999 12:07:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Backfilling required above Jordan-Valley Road
1122/A 6005	113,250	TIFF	14/09/1999 7:25:32a.m.		Swamp	Hikurangi Swamp Otonga and Te-Mata pumping stations details of handrails
1122/B 6005	101,130	TIFF	14/09/1999 7:25:48a.m.		Swamp	Hikurangi Swamp Otonga and Te-Mata pumping stations vortex platform details
1123 6005	152,106	TIFF	14/09/1999 7:27:16a.m.	S-H-1	Swamp	Hikurangi Swamp plan of railway leased land
1124/1 6005	193,082	TIFF	2/09/1999 12:07:16p.m.	Jordan-Valley S-H-1	Swamp	Hikurangi Swamp 36 gravity culvert mountain pocket site plan
1124/2 6005	360,090	TIFF	2/09/1999 12:05:00p.m.	Jordan-Valley	Swamp	Hikurangi Swamp 36 gravity culvert Mountain pocket general arrangement and cut off wall details
1124/3 6005	110,082	TIFF	2/09/1999 12:07:00p.m.	Jordan-Valley	Swamp	Hikurangi Swamp 36 gravity culvert Mountain pocket inlet structure reinforcing details
1124/4 6005	128,986	TIFF	2/09/1999 12:07:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp 36 gravity culvert mountain pocket outlet structure reinforcing details
1124/5 6005	137,474	TIFF	2/09/1999 12:04:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp 36 gravity culvert mountain pocket reinforcing schedule
1124/6 6005	110,874	TIFF	14/09/1999 7:25:48a.m.	Jordan-Valley	Swamp	Hikurangi Swamp area 36 gravity culvert mountain pocket reinforcing schedule
1125 6005	139,378	TIFF	14/09/1999 7:23:16a.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations gantry beam details
1126/1 6005	166,058	TIFF	14/09/1999 7:23:00a.m.		Swamp	Hikurangi Swamp standard 900mm gravity culvert general arrangement
1126/4 6005	131,074	TIFF	2/09/1999 12:03:48p.m.		Swamp	Hikurangi Swamp standard 900mm gravity culvert reinforcing schedule
1127/1 6005	286,498	TIFF	2/09/1999 12:03:16p.m.		Swamp	Hikurangi Swamp Standard 1200mm gravity culvert general arrangement
1127/2 6005	113,602	TIFF	2/09/1999 12:03:48p.m.		Swamp	Hikurangi Swamp Standard 1200mm gravity culvert inlet structure reinforcing details
1127/3 6005	127,938	TIFF	2/09/1999 11:59:48a.m.		Swamp	Hikurangi Swamp Standard 1200mm gravity culvert outlet structure reinforcing details
1127/4 6005	130,482	TIFF	2/09/1999 11:59:48a.m.		Swamp	Hikurangi Swamp standard 1200mm gravity culvert steel schedule

Plan	Size	Format	Date/Time	Road	Type	Title
1127/5 6005	119,442	TIFF	14/09/1999 7:23:32a.m.		Swamp	Hikurangi Swamp Standard 1200mm gravity culvert steel schedule
1128/1 6005	360,386	TIFF	2/09/1999 8:19:32a.m.		Swamp	Tanekaha pumping station possible open cut construction of pipelines
1128/2 6005	360,978	TIFF	2/09/1999 8:17:32a.m.		Swamp	Hikurangi Swamp Tanekaha pumping station possible open cut construction of pipelines cut-off wall details
1128/3 6005	235,298	TIFF	2/09/1999 11:51:16a.m.		Swamp	Hikurangi Swamp Tanekaha pumping station possible open cut construction of pipelines steel schedule
1129/1 6005	322,674	TIFF	2/09/1999 1:30:48p.m.		Swamp	Hikurangi Swamp Okarika catchment
1129/2 6005	331,354	TIFF	2/09/1999 11:57:32a.m.	Matarau	Swamp	Hikurangi Swamp Ngararatunua catchment
1129/3 6005	69,114	TIFF	2/09/1999 11:58:48a.m.		Swamp	Hikurangi Swamp Mountain pocket catchment
1129/4 6005	85,642	TIFF	2/09/1999 11:56:48a.m.		Swamp	Hikurangi Swamp Otonga pocket catchment
1129/5 6005	116,826	TIFF	2/09/1999 11:55:00a.m.	Forsythe	Swamp	Hikurangi Swamp Te-Mata and Tanekaha catchment
1129/6 6005	101,106	TIFF	2/09/1999 11:55:16a.m.		Swamp	Hikurangi Swamp Junction pumping catchment and Whakapara and Waiotu river Tributary Catchment
			14/09/1999 7:39:48a.m.		Swamp	Hikurangi Swamp Schedule of wills park in the Whakapara Waiariki Kaikanui Kaimamaku and Kaimamaku and Waipuakahau - 1963
113 6005	183,482	TIFF				
1132/1 6005	92,810	TIFF	2/09/1999 11:55:32a.m.		Swamp	Hikurangi Swamp Maruarua stream reconstruction
1132/2 6005	45,026	TIFF	2/09/1999 11:55:00a.m.		Swamp	Hikurangi Swamp Maruarua stream reconstruction
1132/3 6005	40,466	TIFF	2/09/1999 11:55:32a.m.		Swamp	Hikurangi Swamp Maruarua stream reconstruction
1132/4 6005	46,826	TIFF	2/09/1999 11:55:32a.m.		Swamp	Hikurangi Swamp Maruarua stream reconstruction
1132/5 6005	41,106	TIFF	2/09/1999 11:55:00a.m.		Swamp	Hikurangi Swamp Maruarua stream reconstruction
1132/6 6005	40,002	TIFF	2/09/1999 11:53:48a.m.		Swamp	Hikurangi Swamp Maruarua stream reconstruction
1136/1 6005	94,202	TIFF	2/09/1999 11:55:48a.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations details of access walkway
1136/2 6005	355,850	TIFF	2/09/1999 11:55:16a.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations walkway details
1136/3 6005	226,658	TIFF	2/09/1999 1:23:16p.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations walkway details
1137/1 6005	314,442	TIFF	2/09/1999 1:23:32p.m.		Swamp	Otonga stream reconstruction
1137/2 6005	378,730	TIFF	2/09/1999 1:25:32p.m.		Swamp	Otonga Stream Reconstruction
1137/3 6005	179,194	TIFF	2/09/1999 1:27:00p.m.		Swamp	Otonga Stream Reconstruction
1137/4 6005	210,698	TIFF	2/09/1999 1:25:00p.m.		Swamp	Otonga Stream Reconstruction
1137/5 6005	201,058	TIFF	2/09/1999 1:27:32p.m.		Swamp	Otonga Stream Reconstruction
1137/6 6005	199,666	TIFF	2/09/1999 1:25:00p.m.		Swamp	Otonga Stream Reconstruction
1137/7 6005	210,690	TIFF	2/09/1999 1:25:32p.m.		Swamp	Otonga Stream Reconstruction
1137/8 6005	216,074	TIFF	2/09/1999 1:23:32p.m.		Swamp	Otonga Stream Reconstruction
1137/9 6005	85,082	TIFF	14/09/1999 7:23:16a.m.		Swamp	Hikurangi Swamp Otonga stream reconstruction
1138 6005	263,338	TIFF	2/09/1999 1:26:16p.m.		Swamp	Hikurangi Swamp Junction pumping station details of weedscreen
1139 6005	280,066	TIFF	2/09/1999 1:26:32p.m.		Swamp	Hikurangi Swamp Tanekaha pumping station details of revised control house
1140 6005	297,538	TIFF	2/09/1999 1:07:00p.m.		Swamp	Hikurangi Swamp Mountain pumping station details of revised control house
1141 6005	98,250	TIFF	14/09/1999 7:23:00a.m.		Swamp	Hikurangi Swamp - Mountain and Tanekaha pumping stations screen nibs - inlet pump bays
1143 6005	284,602	TIFF	2/09/1999 1:13:32p.m.		Swamp	Hikurangi Swamp Watson overflow channel
1144/1 6005	488,362	TIFF	2/09/1999 1:11:00p.m.		Swamp	Hikurangi Swamp upper Waiotu proposed floodway
1144/10 6005	41,322	TIFF	2/09/1999 12:59:00p.m.		Swamp	Hikurangi Swamp upper Waiotu proposed floodway C.S. R1 - R4
1144/11 6005	48,434	TIFF	2/09/1999 12:59:00p.m.		Swamp	Upper Waiotu proposed floodway C.S. R5 - D3

Plan	Size	Format	Date/Time	Road	Type	Title
1144/12 6005	184,202	TIFF	2/09/1999 1:22:16p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. AP4 - E4
1144/13 6005	155,794	TIFF	2/09/1999 1:21:48p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. E5 - AP5
1144/14 6005	163,570	TIFF	2/09/1999 1:22:00p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. F1 - F4
1144/15 6005	191,466	TIFF	2/09/1999 1:21:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. F5 - G1
1144/16 6005	190,642	TIFF	2/09/1999 1:23:00p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. G2 - H2
1144/17 6005	199,322	TIFF	2/09/1999 1:21:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. H3 - AP9
1144/18 6005	177,994	TIFF	2/09/1999 1:22:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. J1 - J4
1144/19 6005	199,562	TIFF	2/09/1999 1:19:16p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. AP10 - S1
1144/2 6005	480,226	TIFF	2/09/1999 1:11:00p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway
1144/2 6005	303,794	TIFF	2/09/1999 1:27:00p.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations gravity outlet flap gate
1144/20 6005	218,586	TIFF	2/09/1999 1:17:16p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. S2 - L3
1144/21 6005	214,426	TIFF	2/09/1999 1:17:00p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. AP12 - M3
1144/22 6005	210,394	TIFF	2/09/1999 1:15:16p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. M4 - N2
1144/23 6005	192,962	TIFF	2/09/1999 1:15:00p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. N3 - N6
1144/3 6005	291,042	TIFF	2/09/1999 1:11:48p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway
1144/4 6005	230,810	TIFF	2/09/1999 1:10:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway
1144/5 6005	273,298	TIFF	2/09/1999 1:10:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway
1144/6 6005	210,874	TIFF	2/09/1999 1:09:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway
1144/7 6005	146,666	TIFF	2/09/1999 1:11:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. A1 - AP1
1144/8 6005	201,194	TIFF	2/09/1999 1:07:48p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. P1 - AP14
1144/9 6005	191,618	TIFF	2/09/1999 1:07:32p.m.		Swamp	Hikurangi Swamp upper Waitutu proposed floodway C.S. Q1 - AP15
1147/1 6005	231,538	TIFF	2/09/1999 1:15:48p.m.	Old-North	Swamp	Hikurangi Swamp McLennan Road drainage general
1147/2 6005	304,714	TIFF	2/09/1999 1:15:16p.m.		Swamp	Hikurangi Swamp McLennan Road hillwater diversion barrell and storey hillwater channel plan and longitudinal section
1147/3 6005	248,858	TIFF	2/09/1999 1:15:00p.m.		Swamp	Hikurangi Swamp McLennan Road hillwater diversion barrell and storey hillwater channel cross sections
1148 6005	122,970	TIFF	14/09/1999 7:23:16a.m.		Swamp	Hikurangi Swamp Mountain and Tanekaha pumping stations modifications to steel portal frames
115 6005	641,530	TIFF	2/09/1999 7:07:00a.m.		Swamp	Hikurangi Swamp Waitutu river & Waipukakahau stream positions of willows
1153/1 6005	346,554	TIFF	2/09/1999 1:14:48p.m.	McLennan	Swamp	Hikurangi Swamp drop structure & culvert McLennan Road drainage
1153/2 6005	299,338	TIFF	2/09/1999 1:14:16p.m.	McLennan	Swamp	Hikurangi Swamp drop structure and culvert McLennan Road drainage
1153/3 6005	364,498	TIFF	2/09/1999 1:15:32p.m.	McLennan	Swamp	Hikurangi Swamp drop structure & culvert McLennan Road drainage
1153/4 6005	308,946	TIFF	2/09/1999 1:13:16p.m.	McLennan	Swamp	Hikurangi Swamp drop structure & culvert McLennan Road drainage
1153/5 6005	354,394	TIFF	2/09/1999 1:15:00p.m.	McLennan	Swamp	Hikurangi Swamp drop structure and culvert McLennan Road Drainage
1153/6 6005	467,146	TIFF	2/09/1999 1:13:00p.m.	McLennan	Swamp	Hikurangi Swamp drop structure & culvert McLennan Road drainage bending schedule
116 6005	283,132	TIFF	3/04/2000 11:25:32a.m.		Swamp	Hikurangi Swamp Whakapara River and Tributaries Position of Willows
117 6005	102,626	TIFF	14/09/1999 7:39:32a.m.		Swamp	Hikurangi Swamp Catchment areas of proposed maintained drains
118 6005	110,682	TIFF	14/09/1999 7:39:16a.m.		Swamp	Hikurangi Swamp Catchment areas of proposed maintained drains
1222 6005	221,962	TIFF	2/09/1999 1:03:16p.m.		Swamp	Excavation Of Inlet & Outlet Channels Te Mata Pumping Station
1223/1 6005	359,314	TIFF	2/09/1999 1:03:16p.m.		swamp	Hikurangi Swamp Major Scheme Upper Waitutu Proposed Floodway

Plan	Size	Format	Date/Time	Road	Type	Title
1223/2 6005	262,738	TIFF	2/09/1999 1:03:48p.m.		swamp	Hikurangi Swamp Major Scheme Upper Waiotu Floodway Bridges
1230 6005	88,834	TIFF	14/09/1999 7:23:16a.m.		Swamp	Waiariki Railway Bridge
1276 6005	207,322	TIFF	2/09/1999 1:01:00p.m.		swamp	Hikurangi Swamp Major Scheme 800mm Pipe Connection Pieces
1277 6005	47,818	TIFF	14/09/1999 8:07:00a.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme LE Attwood Matarau
1279/1 6005	303,378	TIFF	2/09/1999 1:03:00p.m.		swamp	Hikurangi Swamp Major Scheme Upper Waiotu Floodway Bridges
1279/2 6005	112,218	TIFF	14/09/1999 7:23:00a.m.		swamp	Hikurangi Swamp Major Scheme Upper Waiotu Floodway Bridges
1279/3 6005	100,290	TIFF	14/09/1999 7:23:00a.m.		swamp	Hikurangi Swamp Major Scheme Upper Waiotu Floodway Bridges - Revised Handrail Details
1280/1 6005	312,474	TIFF	2/09/1999 1:01:00p.m.		swamp	Hikurangi Swamp Major Scheme Overflow From Upper Waiotu To Floodway
1280/2 6005	43,586	TIFF	2/09/1999 1:01:00p.m.		swamp	Hikurangi Swamp Major Scheme Overflow From Upper Waiotu To Floodway
1280/3 6005	42,514	TIFF	2/09/1999 12:59:32p.m.		swamp	Hikurangi Swamp Major Scheme Overflow From Upper Waiotu To Floodway
1280/4 6005	86,818	TIFF	2/09/1999 12:59:48p.m.		swamp	Hikurangi Swamp Major Scheme Overflow From Upper Waiotu To Floodway
1280/5 6005	541,818	TIFF	2/09/1999 1:31:48p.m.		swamp	Hikurangi Swamp Major Scheme Overflow From Upper Waiotu To Floodway
1281 6005	215,474	TIFF	14/09/1999 7:22:32a.m.		swamp	Hikurangi Swamp Major Scheme Proposed Works Upper Whakapara & Tributaries
1282 6005	239,834	TIFF	14/09/1999 7:23:00a.m.		swamp	Hikurangi Swamp Major Scheme Upper Waiotu Proposed Floodway Land Owners
1283/1 6005	587,498	TIFF	2/09/1999 1:03:16p.m.	Forsythe	Swamp	Te Mata Stream Reconstruction
1283/10 6005	37,346	TIFF	2/09/1999 1:05:32p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/11 6005	32,650	TIFF	2/09/1999 1:03:48p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/2 6005	203,658	TIFF	2/09/1999 1:31:48p.m.		Swamp X-section	Hikurangi Swamp Major Scheme Te Mata Stream Reconstruction
1283/3 6005	221,730	TIFF	2/09/1999 1:07:32p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/4 6005	215,450	TIFF	2/09/1999 1:07:16p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/5 6005	189,954	TIFF	2/09/1999 1:07:48p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/6 6005	292,202	TIFF	2/09/1999 1:07:32p.m.		Swamp	Te Mata Stream Reconstruction
1283/7 6005	272,970	TIFF	2/09/1999 1:05:16p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/8 6005	36,226	TIFF	2/09/1999 1:07:00p.m.		Swamp X-section	Te Mata Stream Reconstruction
1283/9 6005	36,106	TIFF	2/09/1999 1:05:00p.m.		Swamp X-section	Te Mata Stream Reconstruction
129 6005	112,810	TIFF	14/09/1999 7:39:48a.m.		Swamp	Geology Map Of Hikurangi Swamp Catchment
1298 6005	386,258	TIFF	2/09/1999 1:03:00p.m.		Swamp	McHardy Drain
1371 6005	310,792	TIFF	3/04/2000 2:22:32p.m.		Swamp	Ngararatunua Pocket Low Lying Areas
1372 6005	341,234	TIFF	2/09/1999 1:38:32p.m.	Forsythe	Swamp	Te Mata Pocket Low Lying Areas
1373 6005	82,074	TIFF	14/09/1999 8:05:00a.m.		Swamp	Hikurangi Swamp Major Scheme E Nehoe Hukerenui
1374 6005	68,690	TIFF	14/09/1999 8:07:00a.m.	S-H-1 Waiotu-Block	Swamp	Hikurangi Swamp Major Scheme BH Rouse Waiotu
1375 6005	77,930	TIFF	14/09/1999 8:07:00a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme PC Keatley Hukerenui
1376 6005	68,890	TIFF	14/09/1999 8:05:00a.m.	Russell	Swamp	Hikurangi Swamp Major Scheme Crown Land Maori Affairs H Edwards Whakapara
1379 6005	251,696	TIFF	3/04/2000 2:20:48p.m.		Swamp	Lewis Bridge Junction Longitudinal Control Bank and Overflow Levels
1380 6005	188,858	TIFF	2/09/1999 1:38:16p.m.	S-H-1	Swamp	Wairua Waiotu & Whakapara Longsections
1384/1 6005	271,300	TIFF	3/04/2000 2:19:16p.m.		Swamp	Hikurangi Swamp Mangawhero Stream General Plan
1384/2 6005	232,602	TIFF	2/09/1999 1:37:32p.m.		Swamp	Hikurangi Swamp Major Scheme Mangawhero Stream
1384/3 6005	314,474	TIFF	2/09/1999 1:39:32p.m.		Swamp	Hikurangi Swamp Major Scheme Mangawhero Stream

Plan	Size	Format	Date/Time	Road	Type	Title
1384/4 6005	283,458	TIFF	2/09/1999 1:37:32p.m.		Swamp	Hikurangi Swamp Major Scheme Mangawhero Stream
1389/1 6005	3,571,370	TIFF	14/09/1999 8:25:48a.m.	Rushbrook	Swamp	Plan Of Land Required For River Control & Severance
1389/2 6005	4,991,322	TIFF	14/09/1999 8:27:16a.m.		Swamp	Plan Of Land Required For River Control
1389/3 6005	5,372,546	TIFF	14/09/1999 8:29:16a.m.		Swamp	Plan Of Land Required For River Control
1389/4 6005	3,234,650	TIFF	14/09/1999 8:29:48a.m.	Rushbrook	Swamp	Plan Of Land Required For River Control
1389/5 6005	2,881,802	TIFF	14/09/1999 8:29:32a.m.	Jordan-Valley Apotu	Swamp	Plan Of Land Required For River Control & Severance
1389/6 6005	2,172,834	TIFF	14/09/1999 8:31:00a.m.		Swamp	Plan Of Land Required For River Control
1389/7 6005	326,594	TIFF	14/09/1999 8:37:00a.m.	Apotu Jordan-Valley	Swamp	Plan Of Land Required For River Control & Severance
1441/1 6005	731,554	TIFF	14/09/1999 7:35:48a.m.	Rushbrook Jordan-Valley	Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1441/10 6005	332,970	TIFF	14/09/1999 9:00:32a.m.	S-H-1	Swamp	Hikurangi Swamp Land To Be Taken & Road To Be Closed
1441/11 6005	1,353,850	TIFF	14/09/1999 9:03:32a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1441/12 6005	481,618	TIFF	14/09/1999 9:01:32a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1441/13 6005	480,682	TIFF	14/09/1999 9:01:32a.m.		Swamp	Hikurangi Swamp Plan Of Land Required For River Control & Severance
1441/14 6005	2,271,122	TIFF	14/09/1999 9:01:00a.m.	Russell	Swamp	Hikurangi Swamp Plan Of Land Required For River Control & Severance
1441/15 6005	2,426,226	TIFF	14/09/1999 9:02:16a.m.		Swamp	Hikurangi Swamp Plan Of Land Required For River Control & Severance
1441/16 6005	2,343,930	TIFF	14/09/1999 9:03:00a.m.	ONeill S-H-1	Swamp	Hikurangi Swamp Plan Of Land Required For River Control & Severance
1441/17 6005	1,545,738	TIFF	14/09/1999 9:03:32a.m.	Rushbrook	Swamp	Hikurangi Swamp Plan Of Section 26 Block 4 Purua SD
1441/18 6005	1,519,282	TIFF	14/09/1999 9:03:48a.m.		Swamp	Hikurangi Swamp Allotment 197 Ruatangata Parish
1441/19 6005	1,552,674	TIFF	14/09/1999 9:03:32a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Sections 41 & 42 Block 15 Hukerenui Survey District
1441/2 6005	492,234	TIFF	14/09/1999 7:35:16a.m.	Rushbrook	Swamp	Hikurangi Swamp Plan Of Land To Be Taken For Wairua River Control
1441/20 6005	1,644,794	TIFF	14/09/1999 9:04:32a.m.		Swamp	Hikurangi Swamp Section 43 Block 15 Hukerenui SD & Allot 204
1441/21 6005	1,910,666	TIFF	14/09/1999 9:07:32a.m.		Swamp	Hikurangi Swamp Plan Of Section 8 Block 3 Purua SD & Section 27 Block 4 Purua SD
1441/22 6005	5,610,562	TIFF	14/09/1999 7:31:16a.m.		Swamp	Hikurangi Swamp Hikurangi Swamp Compiled Plan Allot 198 Ruatangata Parish & Sec 9 Block 3 Purua SD
1441/3 6005	297,946	TIFF	14/09/1999 7:38:16a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For Wairua River Control
1441/4 6005	169,810	TIFF	14/09/1999 7:39:00a.m.	Otakairangi Matarau	Swamp	Hikurangi Swamp Lots 1 - 6 Being A Subdivision Of Allot 32 Otaikarangi Psh Allots 196 & 198 Ruatangata Psh & Proposed ROW Over Another Part Allots 196 & 198 Ruatangata Psh
1441/5 6005	1,583,650	TIFF	14/09/1999 7:37:16a.m.	Rushbrook	Swamp	Hikurangi Swamp Plan Of Land To Be Taken For Soil Conservation & River Control
1441/6 6005	848,386	TIFF	14/09/1999 7:31:48a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1441/7 6005	1,326,578	TIFF	14/09/1999 7:33:32a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1441/8 6005	460,882	TIFF	14/09/1999 7:33:48a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1441/9 6005	525,378	TIFF	14/09/1999 7:35:32a.m.		Swamp	Hikurangi Swamp Plan Of Land To Be Taken For River Control
1442 6005	2,593,916	TIFF	3/04/2000 2:19:32p.m.		Swamp	Hikurangi Swamp May August 1978 Maximum Extent of Flooding
1443/1 6005	159,626	TIFF	2/09/1999 1:39:48p.m.		Swamp	Hikurangi Swamp Major Scheme McKenzie Drain & Mangawhero Stream Stopbank
1443/2 6005	182,098	TIFF	2/09/1999 1:37:48p.m.		Swamp	Hikurangi Swamp Major Scheme McKenzie Drain & Mangawhero Stream Stopbank
1444 6005	67,682	TIFF	14/09/1999 8:07:00a.m.	Russell	Swamp	Hikurangi Swamp Major Scheme HW Nehua Whakapara
1445 6005	89,450	TIFF	14/09/1999 7:21:48a.m.		Swamp	Hikurangi Swamp Major Scheme Abbott Trust Whakapara
1446/2 6005	200,538	TIFF	2/09/1999 1:38:32p.m.		Swamp	Hikurangi Swamp Major Scheme Unuwahwa Stream LeClerc & Sowry Properties

Plan	Size	Format	Date/Time	Road	Type	Title
1449/1 6005	268,730	TIFF	2/09/1999 1:36:16p.m.		Swamp	Hikurangi Swamp Major Scheme Riponui Stream Reconstruction
1449/2 6005	177,370	TIFF	2/09/1999 1:35:00p.m.		Swamp	Hikurangi Swamp Major Scheme Riponui Stream Reconstruction
1449/4 6005	201,306	TIFF	2/09/1999 1:35:32p.m.		Swamp	Hikurangi Swamp Major Scheme Riponui Stream Reconstruction
1449/5 6005	178,258	TIFF	14/09/1999 7:23:32a.m.		Swamp	Hikurangi Swamp Riponui Stream Reconstruction Locality Plan
1450/1 6005	323,810	TIFF	2/09/1999 1:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme Bale Drain Reconstruction
1450/2 6005	245,154	TIFF	2/09/1999 1:35:00p.m.		Swamp	Hikurangi Swamp Major Scheme Bale Drain Reconstruction
1455/1 6005	239,218	TIFF	2/09/1999 1:34:00p.m.		Swamp	Hikurangi Swamp Apotu Hillwater Drain
1455/2 6005	163,778	TIFF	2/09/1999 1:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme Dickson Drain Extension To Waihirere Stream
1461/1 6005	259,314	TIFF	2/09/1999 1:33:00p.m.		Swamp	Hikurangi Swamp Major Scheme Mountain Drain Redirection
1461/2 6005	235,522	TIFF	2/09/1999 1:35:48p.m.		Swamp	Hikurangi Swamp Major Scheme Mountain Drain Redirection
1461/3 6005	186,090	TIFF	2/09/1999 1:33:48p.m.		Swamp	Hikurangi Swamp Major Scheme Mountain Drain Redirection
1462/1 6005	301,922	TIFF	2/09/1999 1:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pocket Investigation
1462/2 6005	258,930	TIFF	2/09/1999 1:33:16p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pocket Investigation
1462/3 6005	176,778	TIFF	2/09/1999 1:34:00p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pocket Investigation
1462/4 6005	190,378	TIFF	2/09/1999 1:39:32p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pocket Investigation
1472 6005	244,330	TIFF	14/09/1999 8:59:48a.m.	Russell	Swamp	C & CA Abbott & Others Whakapara
1478/1 6005	219,170	TIFF	2/09/1999 1:39:32p.m.		Swamp	Hikurangi Swamp Major Scheme Replacement Of Watsons Bridge - Te Mata Stream
1478/2 6005	893,106	TIFF	2/09/1999 1:39:00p.m.		Swamp	Hikurangi Swamp Major Scheme Replacement Of Watsons Bridge - Te Mata Stream
1479 6005	243,418	TIFF	2/09/1999 1:39:00p.m.	Russell	Swamp	Hikurangi Swamp Paremata Farms Limited Whakapara
1499/3 6005	155,626	TIFF	2/09/1999 1:35:48p.m.		Swamp	Hikurangi Swamp Major Scheme Riponui Stream Reconstruction
1531 6005	80,394	TIFF	14/09/1999 7:21:00a.m.		Swamp	Hikurangi Swamp Major Scheme Land Purchase HH & PA Pike
1532 6005	53,834	TIFF	14/09/1999 8:06:32a.m.		Swamp	Hikurangi Swamp Scheme Land Purchase Mangahuru Farms Ltd
1534 6005	336,052	TIFF	3/04/2000 2:19:16p.m.		Swamp	Ngararatunua Pocket Contours of Low Lying Land
1541 6005	409,060	TIFF	3/04/2000 2:19:32p.m.		Swamp	Otonga Contours of Low Lying Areas
1542 6005	459,756	TIFF	3/04/2000 2:18:00p.m.		Swamp	Te Mata Contours of Low Lying Areas
1553 6005	337,752	TIFF	3/04/2000 2:18:32p.m.	Jordan-Valley	Swamp	Tanekaha Pocket Survey Contour Plan
1559 6005	607,554	TIFF	14/09/1999 8:15:00a.m.	Lovell Otakairangi Matarau Coot	Swamp	Plan Of Land Required For River Control
1559/14 6005	357,346	TIFF	14/09/1999 8:11:16a.m.	Jordan-Valley Swamp Lovell Matarau Otakairangi Rushbrook Heaton Jordan-Valley	Swamp	Index Plan For SO 52049 To SO 52057
1559/15 6005	973,706	TIFF	14/09/1999 8:11:00a.m.	Hukerenui	Swamp	Plan Of Land To Be Taken For River Control
1559/2 6005	338,858	TIFF	14/09/1999 8:09:48a.m.	Jordan-Valley Rushbrook Jordan-Valley	Swamp	Plan Of Land To Be Taken For River Control
1559/23 6005	3,236,818	TIFF	14/09/1999 8:15:00a.m.	Apotu	Swamp	Hikurangi Swamp Index For SO 53395 To SO 53398
1559/24 6005	1,445,962	TIFF	14/09/1999 8:15:48a.m.	Rushbrook	Swamp	Plan Of Land To Be Taken For River Control
1559/25 6005	603,546	TIFF	14/09/1999 8:15:16a.m.	Rushbrook	Swamp	Plan Of Land To Be Taken For River Control
1559/26 6005	2,896,266	TIFF	14/09/1999 8:17:16a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/27 6005	2,180,978	TIFF	14/09/1999 8:17:16a.m.	Jordan-Valley Apotu	Swamp	Plan Of Land To Be Taken For River Control

Plan	Size	Format	Date/Time	Road	Type	Title
1559/28 6005	301,290	TIFF	14/09/1999 8:17:32a.m.	Jordan-Valley	Swamp	Plan Of Land To Be Taken For River Control
1559/29 6005	250,154	TIFF	14/09/1999 8:19:16a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/30 6005	359,626	TIFF	14/09/1999 8:17:32a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/31 6005	305,506	TIFF	14/09/1999 8:18:48a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/32 6005	306,434	TIFF	14/09/1999 8:19:00a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/33 6005	272,994	TIFF	14/09/1999 8:19:00a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/34 6005	229,194	TIFF	14/09/1999 8:19:00a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/35 6005	228,002	TIFF	14/09/1999 8:19:00a.m.	S-H-1	Swamp	Plan Of Land To Be Taken For River Control
1559/36a 6005	261,194	TIFF	14/09/1999 8:20:32a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/36b 6005	1,348,666	TIFF	14/09/1999 8:23:16a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/37a 6005	349,834	TIFF	14/09/1999 8:21:00a.m.	White S-H-1	Swamp	Plan Of Land To Be Taken For River Control
1559/37b 6005	526,026	TIFF	14/09/1999 8:23:00a.m.	S-H-1 White	Swamp	Plan Of Land To Be Taken For River Control
1559/38a 6005	323,442	TIFF	14/09/1999 8:23:00a.m.	S-H-1 Waiotu-Block	Swamp	Plan Of Land To Be Taken For River Control
1559/38b 6005	333,002	TIFF	14/09/1999 8:21:00a.m.	S-H-1 Waiotu-Block	Swamp	Plan Of Land To Be Taken For River Control
1559/39 6005	305,402	TIFF	14/09/1999 8:23:00a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/40a 6005	300,378	TIFF	14/09/1999 8:22:00a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/40b 6005	294,074	TIFF	14/09/1999 8:23:32a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/41 6005	322,642	TIFF	14/09/1999 8:23:32a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/42 6005	305,650	TIFF	14/09/1999 8:23:48a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/43 6005	275,658	TIFF	14/09/1999 8:23:32a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/44 6005	294,738	TIFF	14/09/1999 8:23:00a.m.	S-H-1	Swamp	Plan Of Land To Be Taken For River Control
1559/45 6005	300,058	TIFF	14/09/1999 8:23:48a.m.		Swamp	Plan Of Land To Be Taken For River Control
1559/46 6005	285,562	TIFF	14/09/1999 8:25:00a.m.	S-H-1 Old-North	Swamp	Plan Of Land To Be Taken For River Control
1560 6005	93,562	TIFF	14/09/1999 7:23:00a.m.		Swamp	Hikurangi Swamp Major Scheme Land Purchase Wilsons NZ Portland Cement
1562 6005	93,058	TIFF	14/09/1999 7:21:48a.m.		Swamp	Hikurangi Swamp Major Scheme Land To Be Purchased From Keatley & Neho
1563 6005	86,082	TIFF	14/09/1999 7:21:16a.m.		Swamp	Hikurangi Swamp Major Scheme Plan Showing Severances P. C. Keatley & E. Neho
1564 6005	215,570	TIFF	2/09/1999 1:29:00p.m.		Swamp	Lamberts Drain Te Mata Plan & Longsection
158 6005	67,010	TIFF	14/09/1999 7:39:32a.m.		Swamp	Hikurangi Swamp Drainage Scheme Apotu Stream Area
1582 6005	771,490	TIFF	2/09/1999 8:17:48a.m.		Swamp	Hikurangi Swamp Major Scheme Tanekaha Pumping Station
159 6005	112,378	TIFF	14/09/1999 7:39:00a.m.		Swamp	Hikurangi Swamp Drainage Scheme Maruarua Stream & Tribs
160 6005	130,642	TIFF	14/09/1999 7:39:48a.m.		Swamp	Hikurangi Swamp Drainage Scheme Mangahahuru Stream Area
1602 6005	364,124	TIFF	3/04/2000 2:19:00p.m.		Swamp	Hikurangi Swamp Major Scheme Mountain Pocket Contour Plan of Low Lying Land
161 6005	163,242	TIFF	14/09/1999 7:39:32a.m.		Swamp	Hikurangi Swamp Drainage Scheme Tanekaha Area
162 6005	83,146	TIFF	14/09/1999 7:39:16a.m.		Swamp	Hikurangi Swamp Drainage Scheme Otakairangi Stream

Plan	Size	Format	Date/Time	Road	Type	Title
163 6005	124,410	TIFF	14/09/1999 7:38:16a.m.		Swamp	Hikurangi Swamp Drainage Scheme Okarika & Riponui Streams
164 6005	181,194	TIFF	14/09/1999 7:39:00a.m.		Swamp	Hikurangi Swamp Drainage Scheme Te Mata Stm & Tribs
165 6005	75,258	TIFF	14/09/1999 7:39:00a.m.		Swamp	Hikurangi Swamp Drainage Scheme Otonga Area
1703 6005	102,754	TIFF	14/09/1999 7:22:48a.m.		Swamp	Hikurangi Swamp Major Scheme Land To Be Taken For River Control & Severances NZ Railways
1708/1 6005	394,738	TIFF	2/09/1999 7:19:16a.m.		Swamp	Tanekaha Pumping Station Additional Pump
1708/2 6005	259,298	TIFF	13/09/1999 12:43:32p.m.		Swamp	Tanekaha Pumping Station Pipe Ramp & Pump Support Details
1708/3 6005	282,514	TIFF	13/09/1999 12:43:48p.m.		Swamp	Tanekaha Pumping Station Steelwork For Weed Screens
1708/4 6005	354,954	TIFF	2/09/1999 8:11:32a.m.		Swamp	Tanekaha Pumping Station Additional Pump
1708/5 6005	277,490	TIFF	13/09/1999 12:41:32p.m.		Swamp	Tanekaha Pumping Station Alternative Pipe Line Layout
1717/1 6005	395,210	TIFF	13/09/1999 12:43:32p.m.		Swamp	Mangawhero Stream Reconstruction Stage 3 Waihirere Stream To Finlayson Bridge Long Sections & Plan
1717/2 6005	42,818	TIFF	13/09/1999 12:43:48p.m.		Swamp	Mangawhero Stream Reconstruction Stage 3 Waihirere Stream To Finlayson Bridge Cross Sections
1717/3 6005	42,354	TIFF	13/09/1999 12:41:00p.m.		Swamp	Mangawhero Stream Reconstruction Stage 3 Waihirere Stream To Finlayson Bridge Cross Sections
1717/4 6005	42,698	TIFF	13/09/1999 12:43:00p.m.		Swamp	Mangawhero Stream Reconstruction Stage 3 Waihirere Stream To Finlayson Bridge Cross Sections
1717/5 6005	41,834	TIFF	13/09/1999 12:40:48p.m.		Swamp	Mangawhero Stream Reconstruction Stage 3 Waihirere Stream To Finlayson Bridge Cross Sections
1722/1 6005	88,970	TIFF	13/09/1999 12:39:00p.m.	S-H-1	Swamp	Mangawhero Stream Reconstruction From SH1 To Hotel Drain Plan & Long Sections
1722/2 6005	87,922	TIFF	13/09/1999 12:39:32p.m.		Swamp	Mangawhero Stream Reconstruction From SH1 To Hotel Drain Cross Sections
1855 6005	145,258	TIFF	13/09/1999 12:39:32p.m.	Swamp Heaton	Swamp	Hikurangi Swamp Northland Catchment Commission Corse Scott Wildlife Refuge
190/1A 6005	2,752,714	TIFF	14/09/1999 9:42:00a.m.		Swamp	Hikurangi Swamp Wairua River Catchment Areas
1950/1 6005	86,970	TIFF	2/09/1999 8:35:16a.m.		Swamp	Wiring For Pumping Stations On Hikurangi Swamp
1950/2 6005	76,034	TIFF	2/09/1999 8:33:32a.m.		Swamp	Wiring For Pumping Stations On Hikurangi Swamp
1950/3 6005	129,194	TIFF	2/09/1999 8:35:32a.m.		Swamp	Wiring For Pumping Stations On Hikurangi Swamp
1950/4 6005	101,594	TIFF	2/09/1999 8:33:48a.m.		Swamp	Wiring For Pumping Stations On Hikurangi Swamp
1950/5 6005	131,746	TIFF	2/09/1999 8:34:32a.m.		Swamp	Wiring For Pumping Stations On Hikurangi Swamp
1950/6 6005	539,274	TIFF	2/09/1999 8:18:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wiring For Pumping Stations
1950/7 6005	73,370	TIFF	13/09/1999 12:39:32p.m.		Swamp	Revised Control Wiring Schematics For Hikurangi Swamp Pumps
200 6005	370,962	TIFF	2/09/1999 7:07:00a.m.		Swamp	Hikurangi Swamp Engineering Survey Showing Main Drain Location For Section 6 Blocks 4 5 & 7 Hikurangi Drainage District
2000/3	42,618	TIFF	26/08/1999 10:55:32a.m.		Swamp Longsection	New Road for Mrs B I Mc Breen Eden Terrace Ascot Ave Kamo
2005/6 6005	442,444	TIFF	3/04/2000 2:21:00p.m.		Swamp	Hikurangi Swamp
2064/A 6005	359,434	TIFF	2/09/1999 8:34:00a.m.		Swamp	Hikurangi Swamp Properties Upstream Of HSMS Works On The Kaiikanui & Mataroa Rivers
2064/B 6005	74,146	TIFF	11/10/1999 8:33:32a.m.	Hatea	Swamp	Hikurangi Swamp Properties Upstream Of HSMS Works On The Kaiikanui & Mataroa Rivers Proposed Trolley Mounted Crane For Cleaning Weed Screens At Pump Stations In The Hikurangi Swamp
2073 6005	335,258	TIFF	2/09/1999 8:31:48a.m.		swamp	
2120/1 6005	389,010	TIFF	2/09/1999 8:31:00a.m.		Swamp	Hikurangi Swamp Otonga Pumping Station
2120/2 6005	78,194	TIFF	2/09/1999 8:31:00a.m.		Swamp	Hikurangi Swamp Otonga Pumping Station
2120/3 6005	78,818	TIFF	2/09/1999 8:31:00a.m.		Swamp	Hikurangi Swamp Otonga Pumping Station
2120/4 6005	72,554	TIFF	2/09/1999 8:29:48a.m.		Swamp	Hikurangi Swamp Otonga Pumping Station
2120/5 6005	74,082	TIFF	2/09/1999 8:31:16a.m.		Swamp	Hikurangi Swamp Otonga Pumping Station

Plan	Size	Format	Date/Time	Road	Type	Title
2121/1 6005	87,290	TIFF	2/09/1999 8:29:00a.m.		swamp	Hikurangi Swamp Major Scheme Weedscreen Cleaning Cranes
2121/2 6005	361,346	TIFF	2/09/1999 8:27:32a.m.		swamp	Hikurangi Swamp Major Scheme Weedscreen Cleaning Cranes
2121/3 6005	68,754	TIFF	2/09/1999 8:27:16a.m.		swamp	Hikurangi Swamp Major Scheme Weedscreen Cleaning Cranes
2121/4 6005	53,538	TIFF	2/09/1999 8:27:00a.m.		swamp	Hikurangi Swamp Major Scheme Weedscreen Cleaning Cranes
2121/5 6005	107,922	TIFF	2/09/1999 8:27:32a.m.		Swamp	Hikurangi Swamp Major Scheme Hydraulic Weed Grab
2125 6005	53,914	TIFF	2/09/1999 8:27:00a.m.	S-H-1 Richards	Swamp	Hikurangi Swamp Piano Hill Drainage Rating District Classification Plan
2145 6005	397,698	TIFF	2/09/1999 8:26:00a.m.		Swamp	Hikurangi Swamp Mountain Pumping Station
2146 6005	391,562	TIFF	2/09/1999 8:25:32a.m.		Swamp	Hikurangi Swamp Tanekaha Pumping Station
2147/1 6005	67,738	TIFF	2/09/1999 8:25:32a.m.		Swamp	Hikurangi Swamp Te Mata Pumping Station
2147/2 6005	71,466	TIFF	2/09/1999 8:26:32a.m.		Swamp	Hikurangi Swamp Te Mata Pumping Station
2147/3 6005	114,730	TIFF	2/09/1999 8:24:16a.m.		Swamp	Hikurangi Swamp Te Mata Pumping Station
2147/4 6005	87,706	TIFF	2/09/1999 8:23:48a.m.		Swamp	Hikurangi Swamp Te Mata Pumping Station
2147/5 6005	74,802	TIFF	2/09/1999 8:23:32a.m.		Swamp	Hikurangi Swamp Te Mata Pumping Station
2148/1 6005	378,970	TIFF	2/09/1999 8:23:16a.m.		Swamp	Hikurangi Swamp Ngararatunua Pumping Station Elevations Sections & Locality
2148/2 6005	81,698	TIFF	2/09/1999 8:23:00a.m.		Swamp	Hikurangi Swamp Ngararatunua Pumping Station Stoplogs Detail Of X-section A - A
2148/3 6005	87,282	TIFF	2/09/1999 8:23:00a.m.		Swamp	Hikurangi Swamp Ngararatunua Pumping Station
2148/4 6005	82,482	TIFF	2/09/1999 8:23:48a.m.		Swamp	Hikurangi Swamp Ngararatunua Pumping Station
2148/5 6005	560,034	TIFF	13/09/1999 2:59:48p.m.		Swamp	Hikurangi Swamp Ngararatunua Pumping Station Stoplogs
2149/1 6005	552,290	TIFF	13/09/1999 2:58:32p.m.	Rushbrook Lovell	Swamp	Hikurangi Swamp Okarika Pumping Station Stoplogs
2149/2 6005	507,874	TIFF	13/09/1999 2:56:00p.m.		Swamp	Hikurangi Swamp Okarika Pumping Station Stoplogs
2149/3 6005	1,066,538	TIFF	13/09/1999 2:55:48p.m.		Swamp	Hikurangi Swamp Okarika Pumping Station Stoplogs
2149/4 6005	304,226	TIFF	13/09/1999 2:44:32p.m.		Swamp	Hikurangi Swamp Okarika Pumping Station Stoplogs
2149/5 6005	309,754	TIFF	13/09/1999 2:43:00p.m.		Swamp	Hikurangi Swamp Okarika Pumping Station Stoplogs
2149/6 6005	107,386	TIFF	14/09/1999 7:21:32a.m.		Swamp	Hikurangi Swamp Supplementary Detail Over Section A - A For Plan No 2147 2148 2149
2153 6005	244,810	TIFF	13/09/1999 2:43:32p.m.		Swamp	Hikurangi Swamp Otonga To Near Junction Left Control Bank
2196 6005	380,898	TIFF	13/09/1999 2:43:00p.m.		Swamp	Hikurangi Swamp Major Scheme Berm Lease Land
2233 6005	480,082	TIFF	13/09/1999 2:39:16p.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Drainage Outlet
23 6005	302,562	TIFF	14/09/1999 7:35:16a.m.		Swamp	Hikurangi Swamp Plan Of Hikurangi Drainage District
233 6005	321,274	TIFF	14/09/1999 9:06:32a.m.		Swamp	Hikurangi Swamp Drainage Districts
24 6005	460,690	TIFF	14/09/1999 7:34:00a.m.		Swamp	Hikurangi Swamp Plan Of Hikurangi Drainage District
2413 6005	373,474	TIFF	4/04/2000 12:37:48a.m.		Swamp	Hikurangi Swamp Major Scheme
2417 6005	616,690	TIFF	4/04/2000 1:15:48a.m.		Swamp	Hikurangi Swamp Property Owners
2419/1 6005	130,320	TIFF	3/04/2000 1:43:16p.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates
2419/2 6005	168,852	TIFF	3/04/2000 11:29:00a.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates
2419/3 6005	184,352	TIFF	3/04/2000 1:43:48p.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates
2419/4 6005	485,924	TIFF	3/04/2000 1:43:32p.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates
2419/5 6005	303,508	TIFF	3/04/2000 1:41:48p.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates Rolling Bearing Full Size
2419/6 6005	468,642	TIFF	4/04/2000 1:11:16a.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates

Plan	Size	Format	Date/Time	Road	Type	Title
2419/7 6005	480,938	TIFF	4/04/2000 1:10:32a.m.		Swamp	Hikurangi Swamp Main Weir With Automatic Gates
2421 6005	2,001,620	TIFF	3/04/2000 10:07:00a.m.		Swamp	Wilsonville Quarry Proposed Development Plan
2423/1 6005	3,771,354	TIFF	13/09/1999 2:37:48p.m.	King View Valley Hill Alfred George Jordan	Swamp	Hikurangi Swamp Hikurangi Township Plan Showing Proposed Cleaning Of The Mangawhero Stream
2423/2 6005	190,370	TIFF	13/09/1999 2:39:16p.m.	Jordan George View King Valley Park	Swamp	Hikurangi Swamp Contour Map Of Part Of Hikurangi Town District & Adjoining Country
2423/3 6005	193,274	TIFF	13/09/1999 2:38:16p.m.		Swamp	Mangawhero Stream
2423/4 6005	1,185,850	TIFF	13/09/1999 2:39:00p.m.		Swamp	Mangawhero Stream
2480/1 6005	199,290	TIFF	13/09/1999 2:35:32p.m.		Swamp	Hikurangi Swamp Major Scheme Thorne Drain Cross Sections
2480/2 6005	192,026	TIFF	13/09/1999 2:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme Thorne Drain Cross Sections
2485 6005	232,346	TIFF	14/09/1999 8:59:32a.m.	Forsythe S-H-1 Riponui Hukerenui	Swamp	Te Mati Relief Drain Contract 230.9
25 6005	694,666	TIFF	14/09/1999 7:33:48a.m.		Swamp	Hikurangi Swamp Plan Of Hikurangi Drainage District
2609/6 6005	55,818	TIFF	14/09/1999 7:18:00a.m.		Swamp	Flow Hydrographs At Wairua Bridge During February - March 1966 Flood
262 6005	783,288	TIFF	3/04/2000 2:17:48p.m.		Swamp	Hikurangi Swamp Area
263 6005	2,165,168	TIFF	3/04/2000 2:19:16p.m.		Swamp	Hikurangi Swamp Area
278 6005	625,482	TIFF	2/09/1999 7:06:48a.m.		Swamp	Hikurangi Swamp Longsection Waitutu Stream
284 6005	406,922	TIFF	2/09/1999 7:05:16a.m.	Waitutu-Block S-H-1	Swamp	Hikurangi Swamp Waitutu River
285 6005	806,962	TIFF	2/09/1999 7:07:32a.m.		Swamp	Hikurangi Swamp Improvement Scheme Waitutu Stream
295 6005	432,592	TIFF	3/04/2000 2:23:48p.m.		Swamp	Hikurangi Swamp Contours
307 6005	98,410	TIFF	2/09/1999 7:03:32a.m.		Swamp	Hikurangi Swamp Drainage District Otonga Stream Outlet Reconstruction
308/1 6005	1,106,290	TIFF	14/09/1999 9:19:00a.m.	S-H-1 Jordan-Valley	Roads Swamp	Hikurangi Swamp S-H-1 Whangarei Awanui Hikurangi By Pass 8m. 76/00 - 10m. 0/00
308/2 6005	1,477,026	TIFF	14/09/1999 9:19:00a.m.	View S-H-1	Roads Swamp	Hikurangi Swamp S-H-1 Whangarei Awanui Hikurangi By Pass 10 Miles 11 Miles
309 6005	83,578	TIFF	2/09/1999 7:03:00a.m.		Swamp	Hikurangi Swamp Drainage District Yearbury Drain Reconstruction
316 6005	615,002	TIFF	14/09/1999 9:07:00a.m.		Maps Swamp	Hikurangi Swamp Catchment
319 6005	46,658	TIFF	14/09/1999 7:37:00a.m.		Swamp	Hikurangi Swamp Culvert Instructions For Yearburys Drain
320 6005	65,202	TIFF	14/09/1999 7:38:00a.m.		Swamp	Hikurangi Swamp Reconstruction Drain Through Ringrose & Corse Scott Properties
323/1 6005	61,682	TIFF	14/09/1999 7:49:16a.m.		Swamp	Hikurangi Swamp Rainfall Depth Duration Puhipuhi & Glenberrie
323/10 6005	41,122	TIFF	14/09/1999 7:51:16a.m.		Swamp	Hikurangi Swamp Relationship WL Purua Lewis Jordan Bridges Present Conditions
323/11 6005	33,002	TIFF	14/09/1999 7:51:00a.m.		Swamp	Hikurangi Swamp Discharge At Purua Lewis Jordan Bridges At Corresponding W.L. At Jordan Bridge
323/12 6005	32,562	TIFF	14/09/1999 7:51:16a.m.		Swamp	Hikurangi Swamp Average Waterlevel Between Lewis & Purua Bridges
323/13 6005	31,938	TIFF	14/09/1999 7:51:00a.m.		Swamp	Hikurangi Swamp Average Waterlevel Between Lewis & Jordan Bridges
323/14 6005	76,866	TIFF	14/09/1999 7:45:00a.m.		Swamp	Hikurangi Swamp Appendix 04/03/01 Flow At Lewis Bridge
323/15 6005	90,282	TIFF	14/09/1999 7:45:00a.m.		Swamp	Hikurangi Swamp Inflow & Outflow Hydrographs Storm 12 October 1964
323/16 6005	89,322	TIFF	14/09/1999 7:51:16a.m.		Swamp	Hikurangi Swamp Flood Calculations Storm 12 October 1964
323/17 6005	37,210	TIFF	14/09/1999 7:51:32a.m.		Swamp	Hikurangi Swamp Water Level Jordan Bridge
323/18 6005	40,946	TIFF	14/09/1999 7:51:48a.m.		Swamp	Hikurangi Swamp Water Levels At Jordan Bridge During Storm 12 October 1964
323/19 6005	26,290	TIFF	14/09/1999 7:51:48a.m.		Swamp	Hikurangi Swamp Appendix 05/02/01 Flooding Chart

Plan	Size	Format	Date/Time	Road	Type	Title
323/20 6005	23,690	TIFF	14/09/1999 7:51:48a.m.		Swamp	Hikurangi Swamp Flooded Area In Swamp
323/21 6005	52,226	TIFF	14/09/1999 7:45:48a.m.		Swamp	Hikurangi Swamp Flooding Charts
323/22 6005	90,698	TIFF	14/09/1999 7:46:48a.m.		Swamp	Hikurangi Swamp Appendix 06/01/01 5 Years Present Conditions
323/23 6005	139,242	TIFF	14/09/1999 7:47:32a.m.		Swamp	Hikurangi Swamp Appendix 06/02/01 2 Year Flood With Control Banks At RL 39.0
323/24 6005	136,730	TIFF	14/09/1999 7:47:48a.m.		Swamp	Hikurangi Swamp Appendix 06/03/01 5 Year Flood With Control Banks At RL 39.0
323/25 6005	140,394	TIFF	14/09/1999 7:47:32a.m.		Swamp	Hikurangi Swamp Appendix 06/04/01 50 Year Flood With Control Banks At RL 39.0
323/26 6005	33,146	TIFF	14/09/1999 7:48:00a.m.		Swamp	Hikurangi Swamp Appendix 06/05/01 Flooding Chart
323/27 6005	38,194	TIFF	14/09/1999 7:47:00a.m.		Swamp	Hikurangi Swamp Appendix 06/05/02 Flooding Charts
323/28 6005	33,754	TIFF	14/09/1999 7:47:16a.m.		Swamp	Hikurangi Swamp Appendix 06/05/03 Flooding Charts
323/29 6005	23,890	TIFF	14/09/1999 7:48:00a.m.		Swamp	Hikurangi Swamp Appendix 06/05/04 Flooding Charts
323/30 6005	65,146	TIFF	14/09/1999 7:49:48a.m.		Swamp	Hikurangi Swamp Appendix 07/04/01 Flooding Charts August 1965
323/31 6005	145,642	TIFF	14/09/1999 7:49:16a.m.		Swamp	Hikurangi Swamp Flooding August 1965
323/32 6005	552,338	TIFF	14/09/1999 7:51:00a.m.		Swamp	Hikurangi Swamp Flooding August 1965 If Control Banks At RL 39.0 Had Been Constructed
323/33 6005	45,834	TIFF	14/09/1999 7:51:00a.m.		Swamp	Hikurangi Swamp Appendix 07/04/04 Flooding Charts August 1965
323/34 6005	72,130	TIFF	14/09/1999 7:51:00a.m.		Swamp	Hikurangi Swamp Appendix 07/04/05 Flooding Charts Land In Acres
323/5 6005	32,282	TIFF	14/09/1999 7:51:48a.m.		Swamp	Hikurangi Swamp Appendix 01/03/02 Flooding Chart
323/6 6005	46,986	TIFF	14/09/1999 7:50:32a.m.		Swamp	Hikurangi Swamp Longsection For Whakapara & Wairua Catchments
323/7 6005	44,090	TIFF	14/09/1999 7:50:00a.m.		Swamp	Hikurangi Swamp Appendix 02/03/01 Storm 12 13 June 1965 Hikurangi Swamp Appendix 03/00/01 Basic Hydrographs For Floods Of Wairua River Above Lewis Bridge
323/9 6005	39,306	TIFF	14/09/1999 7:51:16a.m.		Swamp	
333/1 6005	1,388,152	TIFF	3/04/2000 11:03:16a.m.		Swamp	Hikurangi Swamp River Rating District - River Classification 1966
333/2 6005	1,271,212	TIFF	3/04/2000 2:15:00p.m.		Swamp	Hikurangi Swamp River Rating District - River Classification 1966
334/1 6005	1,470,202	TIFF	4/04/2000 12:50:48p.m.		Swamp	Hikurangi Swamp Drainage Rating District Drainage Classification 1966
334/2 6005	1,434,768	TIFF	3/04/2000 2:15:16p.m.		Swamp	Hikurangi Swamp Drainage Rating District Drainage Classification 1967
334/2 6005	1,315,060	TIFF	3/04/2000 2:15:48p.m.		Swamp	Hikurangi Swamp Drainage Rating District Drainage Classification 1966
340/1 6005	262,056	TIFF	3/04/2000 2:12:00p.m.		Swamp	Hikurangi Swamp 400 Hrs Thursday 17th Feb 1966
340/2 6005	380,612	TIFF	3/04/2000 2:11:32p.m.		Swamp	Hikurangi Swamp 1200 Hrs Thursday 17th Feb 1966
340/3 6005	561,652	TIFF	3/04/2000 2:11:00p.m.		Swamp	Hikurangi Swamp 2400 Hrs Thursday 17th Feb 1966
340/4 6005	647,156	TIFF	3/04/2000 2:12:00p.m.		Swamp	Hikurangi Swamp 1200 Hrs Friday 18th Feb 1966
340/5 6005	471,460	TIFF	3/04/2000 1:47:00p.m.		Swamp	Hikurangi Swamp 2400 Hrs Friday 18th Feb 1966
340/6 6005	225,872	TIFF	3/04/2000 2:11:16p.m.		Swamp	Hikurangi Swamp 2400 Hrs Saturday 19th Feb 1966
340/7 6005	286,624	TIFF	3/04/2000 1:47:48p.m.		Swamp	Hikurangi Swamp 2400 Hrs Sunday 20th Feb 1966
340/8 6005	282,364	TIFF	3/04/2000 1:45:00p.m.		Swamp	Hikurangi Swamp 2400 Hrs Wednesday 23rd Feb 1966
340/9 6005	248,560	TIFF	3/04/2000 1:45:48p.m.		Swamp	Hikurangi Swamp 2400 Hrs Saturday 26th Feb 1966
341 6005	682,596	TIFF	3/04/2000 2:23:16p.m.		Swamp	Hikurangi Swamp Drainage District Preliminary flood control scheme
347/1 6005	44,242	TIFF	14/09/1999 8:43:32a.m.		Swamp	Hikurangi Swamp Area W A Archer Otonga
347/10 6005	58,338	TIFF	14/09/1999 8:45:16a.m.	Russell	Swamp	Hikurangi Swamp Area Cloverlea Farms Whakapara
347/12 6005	43,450	TIFF	14/09/1999 8:45:32a.m.		Swamp	Hikurangi Swamp Area K Corney
347/13 6005	44,842	TIFF	14/09/1999 8:47:48a.m.	Riponui Hukerenui	Swamp	Hikurangi Swamp Area H A Corney

Plan	Size	Format	Date/Time	Road	Type	Title
347/14 6005	50,754	TIFF	14/09/1999 8:45:00a.m.	McLennan S-H-1	Swamp	Hikurangi Swamp Area BD Cox - Smith Whakapara
347/15 6005	44,610	TIFF	14/09/1999 8:45:16a.m.		Swamp	Hikurangi Swamp Area A C Crawford Apotu
347/16 6005	49,034	TIFF	14/09/1999 8:47:16a.m.		Swamp	Hikurangi Swamp Area DS Cullen
347/17 6005	42,450	TIFF	14/09/1999 8:46:00a.m.		Swamp	Hikurangi Swamp Area RR Davies Whakapara
347/18 6005	53,850	TIFF	14/09/1999 8:47:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area LH Davies Whakapara
347/19 6005	75,762	TIFF	14/09/1999 8:46:32a.m.	Jordan-Valley Rushbrook	Swamp	Hikurangi Swamp Area E I Dempster Jordan Valley
347/2 6005	38,010	TIFF	14/09/1999 8:43:00a.m.	S-H-1	Swamp	Hikurangi Swamp Area RJ Bale Otonga
347/20 6005	50,226	TIFF	14/09/1999 8:47:00a.m.		Swamp	Hikurangi Swamp Area PS Dempster Whakapara
347/21 6005	48,466	TIFF	14/09/1999 8:47:00a.m.		Swamp	Hikurangi Swamp Area RG Dickson Tanekaha
347/22 6005	43,234	TIFF	14/09/1999 8:47:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area DF Donelly Otonga
347/24 6005	52,290	TIFF	14/09/1999 8:47:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area EL Edwards Whakapara
347/25 6005	43,810	TIFF	14/09/1999 8:47:00a.m.	Tanekaha	Swamp	Hikurangi Swamp Area B Eves Tanekaha
347/26 6005	57,154	TIFF	14/09/1999 8:47:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area G C & A E Finlayson Whakapara
347/27 6005	43,002	TIFF	14/09/1999 8:47:32a.m.		Swamp	Hikurangi Swamp Area J Ford Ngaratunua
347/28 6005	40,818	TIFF	14/09/1999 8:47:32a.m.		Swamp	Hikurangi Swamp Area RS Forsyth Tanekaha
347/29 6005	54,842	TIFF	14/09/1999 8:47:00a.m.		Swamp	Hikurangi Swamp Area WJ Forsyth Tanekaha
347/3 6005	48,858	TIFF	14/09/1999 8:44:48a.m.	Jordan-Valley Apotu	Swamp	Hikurangi Swamp Area FM McCarthy Apotu
347/30 6005	45,418	TIFF	14/09/1999 8:47:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area J Friedrick Otonga
347/31 6005	39,794	TIFF	14/09/1999 8:49:00a.m.	S-H-1	Swamp	Hikurangi Swamp Area Gravatt Otonga
347/32 6005	50,114	TIFF	14/09/1999 8:50:00a.m.	McLennan	Swamp	Hikurangi Swamp Area Griffin Whakapara
347/33 6005	41,810	TIFF	14/09/1999 8:51:16a.m.		Swamp	Hikurangi Swamp Area Gutry Matarau
347/34 6005	47,802	TIFF	14/09/1999 8:49:32a.m.	Enwright	Swamp	Hikurangi Swamp Area Hodgson Whakapara
347/35 6005	45,666	TIFF	14/09/1999 8:49:48a.m.	Tanekaha	Swamp	Hikurangi Swamp Area Hoult Tanekaha
347/36 6005	48,570	TIFF	14/09/1999 8:51:00a.m.	S-H-1	Swamp	Hikurangi Swamp Area D Houston Whakapara
347/37 6005	45,610	TIFF	14/09/1999 8:49:48a.m.		Swamp	Hikurangi Swamp Area J A Ilich Tanekaha
347/39 6005	54,010	TIFF	14/09/1999 8:51:00a.m.		Swamp	Hikurangi Swamp Area B K & M E Judd Whakapara
347/4 6005	46,378	TIFF	14/09/1999 8:46:00a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Area C Baugh Hikurangi
347/40 6005	51,330	TIFF	14/09/1999 8:51:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area P C Keatley Hukerenui
347/41 6005	42,722	TIFF	14/09/1999 8:49:32a.m.		Swamp	Hikurangi Swamp Area H P King Ngaratunua
347/42 6005	46,098	TIFF	14/09/1999 8:49:48a.m.	S-H-1	Swamp	Hikurangi Swamp Area B H Leclerc Hukerenui
347/46 6005	50,810	TIFF	14/09/1999 8:51:00a.m.	S-H-1	Swamp	Hikurangi Swamp Area WCM McConnell Otonga
347/47 6005	44,402	TIFF	14/09/1999 8:50:48a.m.		Swamp	Hikurangi Swamp Area CG McDonald Ngaratunua
347/48 6005	48,274	TIFF	14/09/1999 8:50:00a.m.	Rushbrook	Swamp	Hikurangi Swamp Area IK McDonald
347/49 6005	50,522	TIFF	14/09/1999 8:51:16a.m.		Swamp	Hikurangi Swamp Area G McHardy Tanekaha
347/5 6005	44,138	TIFF	14/09/1999 8:47:00a.m.	Finlayson Ruatangata	Swamp	Hikurangi Swamp Area NA Bell Ngaratunua
347/50 6005	43,186	TIFF	14/09/1999 8:51:32a.m.	Waiotu-Block	Swamp	Hikurangi Swamp Area WD Moore Waiotu
347/51 6005	41,594	TIFF	14/09/1999 8:51:48a.m.		Swamp	Hikurangi Swamp Area LR Nelson Ngaratunua
347/52 6005	43,226	TIFF	14/09/1999 8:51:48a.m.	Heaton	Swamp	Hikurangi Swamp Area R Olsen Tanekaha

Plan	Size	Format	Date/Time	Road	Type	Title
347/53 6005	62,634	TIFF	14/09/1999 8:51:48a.m.	Jordan-Valley Apotu	Swamp	Hikurangi Swamp Area CL Palmer & Sons Ltd Apotu
347/54 6005	51,450	TIFF	14/09/1999 8:51:00a.m.		Swamp	Hikurangi Swamp Area H H Pike Hikurangi
347/55 6005	54,890	TIFF	14/09/1999 8:51:32a.m.	S-H-1	Swamp	Hikurangi Swamp Area A T Powell Whakapara
347/56 6005	38,778	TIFF	14/09/1999 8:51:48a.m.	Riponui Hukerenui	Swamp	Hikurangi Swamp Area Powell
347/57 6005	49,498	TIFF	14/09/1999 8:51:00a.m.		Swamp	Hikurangi Swamp Area W J Reid Whakapara
347/58 6005	51,362	TIFF	14/09/1999 8:51:16a.m.	Otakairangi	Swamp	Hikurangi Swamp Area W G Ringrose Otakairangi
347/59 6005	41,850	TIFF	14/09/1999 8:53:16a.m.	Rushbrook	Swamp	Hikurangi Swamp Area W T Risi Matarau
347/6 6005	49,154	TIFF	14/09/1999 8:45:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area W Birch Whakapara
347/60 6005	39,290	TIFF	14/09/1999 8:54:32a.m.		Swamp	Hikurangi Swamp Area W Rogers Hukerenui
347/61 6005	41,154	TIFF	14/09/1999 8:53:48a.m.	Waiotu-Block	Swamp	Hikurangi Swamp Area A L Rouse Waiotu
347/62 6005	45,570	TIFF	14/09/1999 8:53:48a.m.	S-H-1	Swamp	Hikurangi Swamp Area Rouse Hukerenui
347/63 6005	47,482	TIFF	14/09/1999 8:55:16a.m.	S-H-1	Swamp	Hikurangi Swamp Area T J Rouse Hukerenui
347/64 6005	45,722	TIFF	14/09/1999 8:55:32a.m.	Waiotu-Block	Swamp	Hikurangi Swamp Area W H Rouse Hukerenui
347/65 6005	38,826	TIFF	14/09/1999 8:55:16a.m.	Rushbrook	Swamp	Hikurangi Swamp Area KW Rushbrook Matarua
347/66 6005	41,186	TIFF	14/09/1999 8:55:32a.m.	Waiotu-Block	Swamp	Hikurangi Swamp Area KG Skudder Hukerenui
347/67 6005	48,226	TIFF	14/09/1999 8:55:16a.m.		Swamp	Hikurangi Swamp Area A C Smeath Waiotu
347/68 6005	57,138	TIFF	14/09/1999 8:55:32a.m.	Heaton	Swamp	Hikurangi Swamp Area B Smith Tanekaha
347/69 6005	40,858	TIFF	14/09/1999 8:55:48a.m.		Swamp	Hikurangi Swamp Area J Smith Tanekaha
347/7 6005	57,698	TIFF	14/09/1999 8:47:32a.m.		Swamp	Hikurangi Swamp Area P Bonselaar Tanekaha
347/70 6005	40,978	TIFF	14/09/1999 8:55:00a.m.	Rushbrook	Swamp	Hikurangi Swamp Area RT Snell Matarua
347/71 6005	35,546	TIFF	14/09/1999 8:55:16a.m.	Waiotu-Block	Swamp	Hikurangi Swamp Area WC Sowry Waiotu
347/72 6005	47,970	TIFF	14/09/1999 8:55:32a.m.		Swamp	Hikurangi Swamp Area GW Storey Whakapara
347/73 6005	42,858	TIFF	14/09/1999 8:56:00a.m.	S-H-1	Swamp	Hikurangi Swamp Area VH Taylor Otonga
347/74 6005	46,986	TIFF	14/09/1999 8:57:16a.m.		Swamp	Hikurangi Swamp Area VC & HT Thorburn Otakairangi
347/75 6005	47,930	TIFF	14/09/1999 8:58:16a.m.	McLennan	Swamp	Hikurangi Swamp Area NJ Thorburn Whakapara
347/76 6005	41,946	TIFF	14/09/1999 8:59:32a.m.	Otakairangi	Swamp	Hikurangi Swamp Area CA Thorne Otakairangi
347/78 6005	39,930	TIFF	14/09/1999 8:57:48a.m.	Riponui Hukerenui	Swamp	Hikurangi Swamp Area CM White
347/79 6005	41,658	TIFF	14/09/1999 8:59:00a.m.	Waiotu-Block	Swamp	Hikurangi Swamp Area AR Wilkinson Waiotu
347/80 6005	33,514	TIFF	14/09/1999 8:59:16a.m.		Swamp	Hikurangi Swamp Area RW & MJ Wilkinson Hikurangi
347/81 6005	49,866	TIFF	14/09/1999 8:57:00a.m.		Swamp	Hikurangi Swamp Area E Corse - Scott Tanekaha
347/82 6005	54,394	TIFF	14/09/1999 8:59:32a.m.	S-H-1	Swamp	Hikurangi Swamp Area EL Edwards Whakapara
364 6005	42,266	TIFF	2/09/1999 7:15:48a.m.		Swamp	Hikurangi Swamp Major Scheme Cross Sections Waiotu & Wairua River Floodlevels Under Present Conditions
365 6005	528,506	TIFF	2/09/1999 7:15:16a.m.		Swamp	Hikurangi Swamp Major Scheme Longsection Wairua River Floodlevels Under Present Conditions
366 6005	731,210	TIFF	14/09/1999 9:07:00a.m.		Swamp	Hikurangi Swamp Major Scheme Otakairangi Stream Proposed Duck Pond
366 6005	527,042	TIFF	2/09/1999 7:15:00a.m.		Swamp contour	Hikurangi Swamp Major Scheme Otakairangi Stream Proposed Duck Pond
367 6005	225,930	TIFF	2/09/1999 7:15:00a.m.		Swamp	Hikurangi Swamp Major Scheme Otonga Stream McBreen Jenkins Block
37113 6005	1,901,762	TIFF	10/09/1999 10:25:32a.m.		Survey Swamp	Plan of Pts Allot M41 Hikurangi Parish

Plan	Size	Format	Date/Time	Road	Type	Title
373 6005	428,394	TIFF	14/09/1999 8:07:16a.m.		Swamp	Engineering Survey Showing Main Drain Location For Section 6 Block 4 5 & 7 Hikurangi Drainage District
373 6005	3,729,130	TIFF	14/09/1999 9:13:32a.m.		Swamp	Survey Of R Finlayson Stopbank Ngararatunua
374/1 6005	80,594	TIFF	2/09/1999 7:13:16a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/10 6005	83,970	TIFF	2/09/1999 7:10:16a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/11 6005	46,882	TIFF	2/09/1999 7:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/12 6005	81,858	TIFF	2/09/1999 7:09:00a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/13 6005	63,818	TIFF	2/09/1999 7:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/14 6005	118,866	TIFF	2/09/1999 7:09:16a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/3 6005	53,330	TIFF	2/09/1999 7:15:32a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/4 6005	47,578	TIFF	2/09/1999 7:13:32a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/5 6005	361,562	TIFF	2/09/1999 7:11:48a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/6 6005	45,522	TIFF	2/09/1999 7:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/7 6005	58,178	TIFF	2/09/1999 7:11:32a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/8 6005	46,738	TIFF	2/09/1999 7:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
374/9 6005	491,874	TIFF	2/09/1999 7:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
375 6005	108,770	TIFF	2/09/1999 7:11:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
379/1	5,481,368	TIFF	19/03/2007 9:16:14a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/10	5,584,432	TIFF	19/03/2007 9:22:42a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/11	5,856,100	TIFF	19/03/2007 9:22:58a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/12	5,650,204	TIFF	19/03/2007 9:23:12a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/13	5,605,184	TIFF	19/03/2007 9:23:28a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/14	5,601,944	TIFF	19/03/2007 9:23:42a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/15	5,571,292	TIFF	19/03/2007 9:23:56a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/16	5,937,944	TIFF	19/03/2007 9:24:12a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/17	5,196,264	TIFF	19/03/2007 9:24:26a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/18	5,125,432	TIFF	19/03/2007 9:24:38a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/19	5,764,800	TIFF	19/03/2007 9:26:16a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/2	5,122,840	TIFF	19/03/2007 9:16:38a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/20	5,711,052	TIFF	19/03/2007 9:26:30a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/21	5,990,244	TIFF	19/03/2007 9:26:46a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/22	5,444,036	TIFF	19/03/2007 9:27:00a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/23	5,417,576	TIFF	19/03/2007 9:34:30a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/24	5,996,960	TIFF	19/03/2007 9:34:44a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/25	5,489,216	TIFF	19/03/2007 9:34:58a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/26	5,009,068	TIFF	19/03/2007 9:35:12a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/27	5,590,804	TIFF	19/03/2007 9:35:24a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/28	5,599,960	TIFF	19/03/2007 9:35:36a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/29	5,466,236	TIFF	19/03/2007 9:35:50a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas

Plan	Size	Format	Date/Time	Road	Type	Title
379/3	5,661,780	TIFF	19/03/2007 9:17:08a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/30	5,760,900	TIFF	19/03/2007 9:36:02a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/31	5,565,980	TIFF	19/03/2007 9:36:16a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/32	6,316,036	TIFF	19/03/2007 9:36:26a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/33	5,710,120	TIFF	19/03/2007 9:36:40a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/34	5,788,404	TIFF	19/03/2007 9:36:56a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/35	5,836,916	TIFF	19/03/2007 9:37:10a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/36	5,139,320	TIFF	19/03/2007 9:37:30a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/37	5,266,504	TIFF	19/03/2007 9:37:46a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/38	5,364,908	TIFF	19/03/2007 9:37:58a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/39	5,361,572	TIFF	19/03/2007 9:38:12a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/4	5,466,696	TIFF	19/03/2007 9:17:32a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/40	5,594,404	TIFF	19/03/2007 9:38:24a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/41	5,492,300	TIFF	19/03/2007 9:38:36a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/42	5,032,804	TIFF	19/03/2007 9:38:48a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/43	5,272,760	TIFF	19/03/2007 9:39:00a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/5	5,375,980	TIFF	19/03/2007 9:17:56a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/6	5,416,332	TIFF	19/03/2007 9:18:16a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/7	5,476,280	TIFF	19/03/2007 9:21:32a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/8	5,739,052	TIFF	19/03/2007 9:21:52a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
379/9	5,552,144	TIFF	19/03/2007 9:22:22a.m.		Swamp	Hikurangi Swamp Drainage District 379 Rates Benefit Areas
390 6005	71,474	TIFF	2/09/1999 7:09:00a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
391 6005	105,274	TIFF	2/09/1999 7:09:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
401/1 6005	4,143,202	TIFF	2/09/1999 7:51:00a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/1 6005	370,946	TIFF	2/09/1999 7:55:32a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections 1 - 9
401/10 6005	99,954	TIFF	2/09/1999 7:49:32a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/2 6005	1,817,434	TIFF	2/09/1999 7:51:32a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/2 6005	195,618	TIFF	2/09/1999 7:55:32a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections 10 - 13
401/3 6005	392,770	TIFF	2/09/1999 7:51:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/3 6005	341,050	TIFF	2/09/1999 7:53:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/4 6005	1,230,234	TIFF	2/09/1999 7:51:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/5 6005	477,034	TIFF	2/09/1999 7:50:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/6 6005	174,650	TIFF	2/09/1999 7:49:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/7 6005	197,274	TIFF	2/09/1999 7:51:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/8 6005	185,634	TIFF	2/09/1999 7:49:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
401/9 6005	222,154	TIFF	2/09/1999 7:51:32a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
402/1 6005	192,466	TIFF	14/09/1999 9:10:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
402/2 6005	184,658	TIFF	14/09/1999 9:10:16a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections

Plan	Size	Format	Date/Time	Road	Type	Title
402/3 6005	27,442	TIFF	2/09/1999 7:48:00a.m.		swamp	Hikurangi Swamp Major Scheme Wairua River
402/4 6005	31,050	TIFF	2/09/1999 7:47:32a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River
402/5 6005	199,618	TIFF	14/09/1999 9:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Cross Sections
402/6 6005	26,370	TIFF	2/09/1999 7:47:00a.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River
403 6005	284,202	TIFF	2/09/1999 7:47:48a.m.		Swamp	Hikurangi Swamp Drainage District Works Carried Out In Hikurangi Swamp 1921 To 1967
404 6005	323,682	TIFF	2/09/1999 7:47:00a.m.		Swamp	Hikurangi Swamp Drainage District Peat Settlement 1929 - 1967 Ngararatunua
406 6005	993,196	TIFF	3/04/2000 2:21:48p.m.		Swamp	Hikurangi Swamp Major Scheme
407 6005	458,890	TIFF	2/09/1999 7:45:16a.m.		Swamp	Hikurangi Swamp Major Scheme Longsections Of Wairua Waiotu & Whakapara Rivers
408/1 6005	250,690	TIFF	2/09/1999 7:47:16a.m.	Pipiwai Lovell Otakairangi	Swamp	Hikurangi Swamp Major Scheme Purua Bridge - Lewis Bridge
408/1B 6005	220,802	TIFF	14/09/1999 9:07:32a.m.		Swamp	Hikurangi Swamp Major Scheme
408/2 6005	331,482	TIFF	2/09/1999 7:45:00a.m.	Otakairangi Swamp Heaton Jordan-Valley Rushbrook	Survey Storm Swamp	Hikurangi Swamp Major Scheme Okarika Pocket
408/2 6005	1,281,690	TIFF	2/09/1999 7:45:00a.m.		Storm Survey Swamp	Hikurangi Swamp Major Scheme Okarika Pocket
408/2b 6005	376,786	TIFF	14/09/1999 9:09:48a.m.	Swamp Otakairangi Tanekaha Jordan-Valley	Storm Swamp	Hikurangi Swamp Major Scheme Lewis To Jordan Bridge
408/3 6005	216,234	TIFF	2/09/1999 7:45:00a.m.		Storm Swamp	Hikurangi Swamp Major Scheme
408/3b 6005	577,466	TIFF	14/09/1999 9:09:48a.m.	Tanekaha Hukerenui	Storm Swamp	Hikurangi Swamp Major Scheme Jordan Bridge To Junction
408/4 6005	271,866	TIFF	2/09/1999 7:43:16a.m.		Storm Swamp	Hikurangi Swamp Major Scheme Whakapara & Waiotu Rivers
408/4B 6005	398,050	TIFF	14/09/1999 9:11:48a.m.		Swamp Storm	Hikurangi Swamp Major Scheme Whakapara & Waiotu Rivers Down Stream S-H-1
408/5 6005	64,074	TIFF	2/09/1999 7:43:32a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara & Waiotu Rivers
408/5B 6005	276,218	TIFF	14/09/1999 9:09:16a.m.		Swamp	Hikurangi Swamp Major Scheme Upper Whakapara & Waiotu Rivers
408/6 6005	304,346	TIFF	14/09/1999 9:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme
409/1 6005	95,042	TIFF	2/09/1999 7:43:32a.m.		Swamp	Hikurangi Swamp Drainage District Forsyth & Cullen Streams Reconstruction
409/2 6005	52,314	TIFF	2/09/1999 7:22:48a.m.		Swamp	Hikurangi Swamp Drainage District Forsyth & Cullen Streams Reconstruction
41 6005	764,434	TIFF	13/09/1999 12:29:00p.m.		Maps Swamp	Plan Of Hikurangi Drainage Dist.
410 6005	75,906	TIFF	2/09/1999 7:20:48a.m.		Swamp	Hikurangi Swamp Drainage District Crown Land Construction
411/1 6005	84,754	TIFF	2/09/1999 7:19:32a.m.	Apotu	Swamp	Hikurangi Swamp Drainage District Apotu Stream Reconstruction
411/2 6005	38,314	TIFF	2/09/1999 7:19:32a.m.		Swamp	Hikurangi Swamp Drainage District Apotu Stream Cross Sections
411/3 6005	40,282	TIFF	2/09/1999 7:19:00a.m.		Swamp	Hikurangi Swamp Drainage District Apotu Stream Cross Sections
4112/2 6005	4,597,936	TIFF	3/04/2000 2:23:32p.m.		Swamp	Hikurangi Swamp area
4112/3 6005	1,671,804	TIFF	3/04/2000 2:23:16p.m.		Swamp	Hikurangi Swamp area
412/1 6005	65,242	TIFF	2/09/1999 8:47:00a.m.		Swamp	Hikurangi Swamp Major Scheme Right Bank Waiotu River 00.00 Feet To 10251.6 Feet
412/2 6005	432,986	TIFF	14/09/1999 9:17:16a.m.		Swamp	Hikurangi Swamp Major Scheme Right Bank Wairua River 10251.6 Feet - 20507.4 Feet
412/3 6005	432,730	TIFF	14/09/1999 9:19:32a.m.		Swamp	Hikurangi Swamp Major Scheme Right Bank Wairua River 20507.4 Feet - 30468.8 Feet
412/4 6005	545,642	TIFF	14/09/1999 9:17:32a.m.		Swamp	Hikurangi Swamp Major Scheme Right Bank Wairua River 30468.8 Feet - 36542.7 Feet
412/5 6005	351,274	TIFF	2/09/1999 8:23:00a.m.		Swamp	Hikurangi Swamp Major Scheme Left Bank Wairua River 00.00 Feet To 10375.9 Feet
412/6 6005	564,906	TIFF	14/09/1999 9:19:32a.m.		Swamp	Hikurangi Swamp Major Scheme Left Bank Wairua River 10375.9 Feet - 20572.7 Feet
412/7 6005	641,842	TIFF	14/09/1999 9:07:32a.m.		Swamp	Hikurangi Swamp Major Scheme Left Bank Wairua River

Plan	Size	Format	Date/Time	Road	Type	Title
413/1 6005	274,362	TIFF	14/09/1999 9:15:00a.m.		Swamp	Hikurangi Swamp Major Scheme Waitutu River Junction To S-H-1 Cross Sections
413/2 6005	38,026	TIFF	2/09/1999 8:47:48a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Waitutu River Junction To State Highway 1
413/3 6005	248,010	TIFF	14/09/1999 9:15:16a.m.		Swamp	Hikurangi Swamp Major Scheme Waitutu River Junction To S-H-1 Cross Sections
414/1 6005	301,258	TIFF	14/09/1999 7:09:32a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River X-section 1 To 6
414/2 6005	266,858	TIFF	14/09/1999 7:09:00a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River X-section 7 To 12
414/3 6005	29,490	TIFF	2/09/1999 8:41:00a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River X-section 13 To 16
416/1 6005	537,330	TIFF	2/09/1999 8:41:16a.m.		Swamp	Hikurangi Swamp Catchment 26 March To 15 April
416/2 6005	455,386	TIFF	2/09/1999 8:43:48a.m.		Swamp	Hikurangi Swamp Catchment 26 To 29 March 1968
416/3 6005	405,298	TIFF	2/09/1999 8:41:00a.m.		Swamp	Hikurangi Swamp Catchment 30 March To 5 April 1968
416/4 6005	325,618	TIFF	2/09/1999 8:43:16a.m.		Swamp	Hikurangi Swamp Catchment 7 April - 9 April 1968
417 6005	403,034	TIFF	2/09/1999 8:41:16a.m.		Swamp	Hikurangi Swamp Catchment 10 June - 15 July 1968
418/1 6005	465,482	TIFF	2/09/1999 8:39:00a.m.		Swamp	Hikurangi Swamp Major Scheme Mangawhero Stream
418/2 6005	874,578	TIFF	2/09/1999 8:39:48a.m.		Swamp	Hikurangi Swamp Major Scheme Mangawhero Stream
419 6005	264,826	TIFF	2/09/1999 8:39:16a.m.	Swamp	Swamp	Hikurangi Swamp Major Scheme Thorne Drain Reconstruction
420/1 6005	114,346	TIFF	2/09/1999 8:39:16a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Mckenzie Drain Reconstruction
420/2 6005	267,722	TIFF	2/09/1999 8:39:48a.m.		Swamp	Hikurangi Swamp Major Scheme Mckenzie Drain Reconstruction
421 6005	329,946	TIFF	2/09/1999 8:37:48a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Lister Drain
422/1 6005	587,474	TIFF	14/09/1999 7:03:00a.m.		Swamp	Hikurangi Swamp Major Scheme
422/2 6005	907,258	TIFF	14/09/1999 7:07:00a.m.		Swamp	Hikurangi Swamp Major Scheme
422/3 6005	980,986	TIFF	14/09/1999 7:06:48a.m.		Swamp	Hikurangi Swamp Major Scheme
422/4 6005	999,210	TIFF	14/09/1999 7:06:48a.m.		Swamp	Hikurangi Swamp Major Scheme
422/5 6005	1,217,586	TIFF	14/09/1999 7:07:00a.m.		Swamp	Hikurangi Swamp Major Scheme
422/6 6005	1,104,586	TIFF	14/09/1999 7:07:16a.m.		Swamp	Hikurangi Swamp Major Scheme
422/7 6005	637,922	TIFF	14/09/1999 7:07:32a.m.		Swamp	Hikurangi Swamp Major Scheme
422/8 6005	759,130	TIFF	14/09/1999 7:07:16a.m.		Swamp	Hikurangi Swamp Major Scheme
422/9 6005	1,532,242	TIFF	14/09/1999 7:07:48a.m.		Swamp	Hikurangi Swamp Major Scheme
424 6005	252,698	TIFF	2/09/1999 8:39:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
427/1 6005	373,714	TIFF	2/09/1999 8:49:16a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/10 6005	221,146	TIFF	2/09/1999 8:55:16a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/11 6005	290,170	TIFF	2/09/1999 8:53:16a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/12 6005	196,650	TIFF	2/09/1999 8:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/13 6005	280,674	TIFF	2/09/1999 8:53:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/14 6005	277,746	TIFF	2/09/1999 8:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/15 6005	49,138	TIFF	2/09/1999 8:55:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/16 6005	57,186	TIFF	2/09/1999 8:55:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/17 6005	57,810	TIFF	2/09/1999 8:55:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/18 6005	56,594	TIFF	2/09/1999 8:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/2 6005	54,242	TIFF	2/09/1999 8:51:48a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua

Plan	Size	Format	Date/Time	Road	Type	Title
427/20 6005	55,842	TIFF	2/09/1999 8:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/21 6005	57,946	TIFF	2/09/1999 8:56:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/22 6005	61,802	TIFF	2/09/1999 8:55:48a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/23 6005	61,938	TIFF	2/09/1999 8:34:48a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/24 6005	53,418	TIFF	2/09/1999 8:35:48a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/25 6005	56,330	TIFF	2/09/1999 8:35:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/27 6005	44,386	TIFF	2/09/1999 8:35:16a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/28 6005	75,218	TIFF	2/09/1999 8:35:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/29 6005	56,818	TIFF	2/09/1999 8:35:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis Purua
427/3 6005	359,386	TIFF	2/09/1999 8:51:48a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/4 6005	282,850	TIFF	2/09/1999 8:51:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/5 6005	282,554	TIFF	2/09/1999 8:51:00a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/6 6005	333,434	TIFF	2/09/1999 8:51:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/7 6005	343,562	TIFF	2/09/1999 8:51:16a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/8 6005	292,994	TIFF	2/09/1999 8:51:32a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
427/9 6005	224,162	TIFF	2/09/1999 8:53:16a.m.		Swamp	Hikurangi Swamp Major Scheme River Cross Sections Lewis - Purua
428 6005	199,994	TIFF	2/09/1999 8:59:16a.m.		Maps Swamp	
429 6005	2,083,946	TIFF	2/09/1999 8:59:16a.m.		Storm	Hikurangi Swamp Major Scheme
430 6005	104,258	TIFF	2/09/1999 8:57:48a.m.	S-H-1	Swamp	Hikurangi Swamp Drainage Rating District Maintained Watercourses
432 6005	159,706	TIFF	2/09/1999 10:47:32a.m.		Swamp	Hikurangi Swamp Major Scheme Diagrammatic Scheme Plan
433 6005	76,842	TIFF	2/09/1999 10:47:16a.m.		Swamp	Hikurangi Swamp Major Scheme 10 Year Flood Present Conditions
434 6005	58,378	TIFF	2/09/1999 10:47:00a.m.		Swamp	Hikurangi Swamp Major Scheme Junction Pumping Station
435 6005	76,066	TIFF	2/09/1999 10:47:32a.m.		Swamp	Hikurangi Swamp Major Scheme Tanekaha Pumping Station
436 6005	63,170	TIFF	2/09/1999 10:45:16a.m.		Swamp	Hikurangi Swamp Major Scheme Otonga Pumping Station
437 6005	259,882	TIFF	2/09/1999 9:11:32a.m.		Swamp	Hikurangi Swamp Major Scheme Mountain Pumping Station
441 6005	91,410	TIFF	2/09/1999 8:59:16a.m.	Pipiwai Lovell Matarau	Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
442 6005	160,690	TIFF	2/09/1999 8:59:16a.m.		Swamp	Hikurangi Swamp Major Scheme Channel Improvement Lewis Purua Bridges
444 6005	129,874	TIFF	2/09/1999 8:59:00a.m.	Jordan-Valley Rushbrook	Swamp	Hikurangi Swamp Major Scheme Channel Improvement Lewis Purua Bridges
445 6005	110,706	TIFF	2/09/1999 8:58:16a.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Valley Bridge Site
446 6005	110,706	TIFF	2/09/1999 8:58:16a.m.		Swamp	Hikurangi Swamp Major Scheme Apotu Stream
446 6005	2,206,074	TIFF	2/09/1999 8:58:16a.m.		Swamp	Hikurangi Swamp Major Scheme Apotu Stream
447/1 6005	78,770	TIFF	2/09/1999 7:17:32a.m.		Swamp	Hikurangi Swamp Major Scheme Drake Drain Reconstruction
447/2 6005	36,098	TIFF	2/09/1999 7:19:16a.m.		Swamp	Hikurangi Swamp Major Scheme Drake Drain Reconstruction Cross Sections
449 6005	92,754	TIFF	14/09/1999 8:42:32a.m.		Swamp	Mangahahuru Stream Bridge Protection Works
45 6005	1,235,690	TIFF	14/09/1999 7:47:16a.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Valley Bridge Site
45/A 6005	519,538	TIFF	14/09/1999 7:43:00a.m.		Swamp	Hikurangi Swamp Major Scheme Apotu Stream
45/B 6005	2,813,042	TIFF	14/09/1999 7:43:32a.m.		Swamp	Hikurangi Swamp Major Scheme Drake Drain Reconstruction
45/C 6005	483,266	TIFF	14/09/1999 7:43:00a.m.		Swamp	Hikurangi Swamp Major Scheme Drake Drain Reconstruction Cross Sections
45/D 6005	174,498	TIFF	14/09/1999 7:45:32a.m.		Swamp	Mangahahuru Stream Bridge Protection Works
45/D 6005	174,498	TIFF	14/09/1999 7:45:32a.m.		Swamp	Hikurangi Swamp Drainage Districts

Plan	Size	Format	Date/Time	Road	Type	Title
450/1 6005	861,570	TIFF	13/09/1999 2:35:16p.m.	Rushbrook Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Wairua River New Jordan Valley Road Bridge
450/2 6005	86,954	TIFF	14/09/1999 7:39:32a.m.	Jordan-Valley Rushbrook	Swamp	Hikurangi Swamp Major Scheme Contract No 32 Borrow Pit Areas
451/1 6005	217,394	TIFF	14/09/1999 8:43:00a.m.		Swamp	Hikurangi Swamp Major Scheme Longsection Of Wairua River
451/2 6005	364,986	TIFF	13/09/1999 2:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Bridge Junction
452 6005	264,650	TIFF	13/09/1999 2:35:16p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Proposed River Works New Jordan Valley Bridge
453/1 6005	198,898	TIFF	13/09/1999 2:35:32p.m.		Swamp	Hikurangi Swamp Major Scheme Land Holding Plan Wairua River Channel
453/2 6005	306,266	TIFF	13/09/1999 2:33:32p.m.		Swamp	Hikurangi Swamp Major Scheme Land Holding Plan Wairua River Channel
453/3 6005	372,010	TIFF	13/09/1999 2:35:16p.m.		Swamp	Hikurangi Swamp Major Scheme Land Clearing Plan Wairua River Channel
453/4 6005	458,794	TIFF	13/09/1999 2:33:00p.m.		Swamp	Hikurangi Swamp Major Scheme Land Purchase Plan Waitutu & Whakapara Rivers
454 6005	243,522	TIFF	13/09/1999 2:33:00p.m.		Swamp	Hikurangi Swamp Major Scheme Target Programme
455/1 6005	547,914	TIFF	13/09/1999 2:34:00p.m.		Swamp	Hikurangi Swamp Major Scheme Upper Waitutu River
455/2 6005	424,146	TIFF	13/09/1999 2:32:00p.m.		Swamp	Hikurangi Swamp Major Scheme Upper Waitutu River
455/3 6005	234,146	TIFF	13/09/1999 2:31:16p.m.		Swamp	Hikurangi Swamp Major Scheme Waitutu River
455/4 6005	440,090	TIFF	13/09/1999 2:31:16p.m.		Swamp	Hikurangi Swamp Major Scheme Waitutu River
455/5 6005	258,984	TIFF	3/04/2000 2:23:32p.m.		Swamp	Hikurangi Swamp Major Scheme upper Whakapara
455/6 6005	242,914	TIFF	13/09/1999 2:31:16p.m.		Swamp	Hikurangi Swamp Major Scheme
455/7 6005	150,626	TIFF	13/09/1999 2:31:00p.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River
455/8 6005	209,282	TIFF	13/09/1999 2:31:16p.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River
456 6005	257,098	TIFF	13/09/1999 2:30:16p.m.		Swamp	Hikurangi Swamp Major Scheme Otakairangi Stream Proposed Duck Pond
457 6005	1,403,392	TIFF	3/04/2000 1:41:00p.m.		Swamp	Hikurangi Swamp Special Rating Area Major Scheme Classification
458 6005	1,336,218	TIFF	4/04/2000 1:23:00a.m.		Swamp	Hikurangi Swamp Major Scheme Benefit plan
459/1	4,256,180	TIFF	16/03/2007 2:17:18p.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/1 6005	279,338	TIFF	13/09/1999 2:31:32p.m.		Swamp	Hikurangi Swamp Drainage Scheme Apotu Stream Reconstruction
459/10	5,495,104	TIFF	19/03/2007 9:42:24a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/11	5,584,688	TIFF	19/03/2007 9:42:42a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/12	5,839,000	TIFF	19/03/2007 9:42:56a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/13	6,034,164	TIFF	19/03/2007 9:43:10a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/14	5,456,716	TIFF	19/03/2007 9:43:24a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/15	5,483,832	TIFF	19/03/2007 9:43:40a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/16	5,315,108	TIFF	19/03/2007 9:43:56a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/17	5,464,224	TIFF	19/03/2007 9:44:10a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/18	6,415,652	TIFF	19/03/2007 9:44:32a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/19	6,994,380	TIFF	19/03/2007 9:44:48a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/2	3,967,192	TIFF	19/03/2007 9:39:32a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/2 6005	329,098	TIFF	13/09/1999 2:29:00p.m.		Swamp	Hikurangi Swamp Drainage Scheme Apotu Stream Reconstruction
459/20	5,794,008	TIFF	19/03/2007 9:45:04a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/21	6,392,260	TIFF	19/03/2007 9:45:16a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/22	6,606,060	TIFF	19/03/2007 9:45:32a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas

Plan	Size	Format	Date/Time	Road	Type	Title
459/23	7,355,840	TIFF	19/03/2007 9:45:46a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/24	5,298,052	TIFF	19/03/2007 9:46:02a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/25	5,755,636	TIFF	19/03/2007 9:46:18a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/26	5,606,404	TIFF	19/03/2007 9:46:30a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/27	5,563,564	TIFF	19/03/2007 9:46:46a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/28	5,632,456	TIFF	19/03/2007 9:47:02a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/29	5,914,796	TIFF	19/03/2007 9:47:16a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/3	6,717,440	TIFF	19/03/2007 9:40:04a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/30	5,497,400	TIFF	19/03/2007 9:47:30a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/31	5,870,192	TIFF	19/03/2007 9:47:44a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/32	6,868,344	TIFF	19/03/2007 9:47:58a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/33	5,937,068	TIFF	19/03/2007 9:48:10a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/34	6,156,676	TIFF	19/03/2007 9:48:24a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/35	6,033,288	TIFF	19/03/2007 9:48:38a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/36	5,527,612	TIFF	19/03/2007 9:48:56a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/37	5,988,292	TIFF	19/03/2007 9:49:08a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/38	6,468,408	TIFF	19/03/2007 9:49:24a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/39	6,096,664	TIFF	19/03/2007 9:49:38a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/4	5,298,952	TIFF	19/03/2007 9:40:24a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/40	5,270,876	TIFF	19/03/2007 9:49:52a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/41	5,049,408	TIFF	19/03/2007 9:50:08a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/42	5,412,052	TIFF	19/03/2007 9:50:30a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/43	5,205,556	TIFF	19/03/2007 9:50:46a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/5	4,890,896	TIFF	19/03/2007 9:40:58a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/6	5,314,724	TIFF	19/03/2007 9:41:14a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/7	5,060,788	TIFF	19/03/2007 9:41:38a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/8	5,496,196	TIFF	19/03/2007 9:41:52a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
459/9	5,370,412	TIFF	19/03/2007 9:42:08a.m.		Swamp	Hikurangi Swamp Major Scheme 459 Rates Benefit Areas
46 6005	81,394	TIFF	14/09/1999 7:41:16a.m.	S-H-14 S-H-1 Jordan-Valley Apotu Rushbrook Lovell Ruatangata Puketitoti	Swamp Swamp	Tour Of Hikurangi Swamp May 1963 Plan Showing Proposed Route
465 6005	1,280,024	TIFF	3/04/2000 1:41:48p.m.		Swamp	Hikurangi Swamp Major Scheme Classification Plan
468 6005	164,122	TIFF	13/09/1999 2:31:48p.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Waitutu Bridge Area
469/1 6005	222,018	TIFF	13/09/1999 2:29:32p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Bridge Jordan Bridge
469/10 6005	182,554	TIFF	13/09/1999 2:25:32p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/11 6005	224,746	TIFF	13/09/1999 2:27:32p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/12 6005	197,130	TIFF	13/09/1999 2:25:32p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/13 6005	183,666	TIFF	13/09/1999 2:27:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction

Plan	Size	Format	Date/Time	Road	Type	Title
469/14 6005	152,674	TIFF	13/09/1999 2:25:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/15 6005	176,386	TIFF	13/09/1999 2:27:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/16 6005	185,506	TIFF	13/09/1999 2:25:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/17 6005	167,738	TIFF	13/09/1999 2:23:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/18 6005	226,258	TIFF	13/09/1999 2:23:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/19 6005	165,546	TIFF	13/09/1999 2:23:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/2 6005	186,890	TIFF	13/09/1999 2:27:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Bridge Purua Bridge
469/20 6005	168,850	TIFF	13/09/1999 2:23:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/21 6005	176,794	TIFF	13/09/1999 2:23:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/22 6005	157,626	TIFF	13/09/1999 2:23:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/23 6005	175,090	TIFF	13/09/1999 2:23:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/24 6005	145,658	TIFF	13/09/1999 2:23:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/25 6005	161,354	TIFF	13/09/1999 2:21:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/26 6005	174,722	TIFF	13/09/1999 2:23:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/27 6005	176,962	TIFF	13/09/1999 2:21:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/28 6005	141,986	TIFF	13/09/1999 2:23:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/29 6005	178,354	TIFF	13/09/1999 2:21:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/3 6005	229,986	TIFF	13/09/1999 2:27:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Bridge Purua Bridge
469/30 6005	148,642	TIFF	13/09/1999 2:19:32p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/31 6005	197,842	TIFF	13/09/1999 2:20:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/4 6005	237,242	TIFF	13/09/1999 2:27:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/5 6005	170,130	TIFF	13/09/1999 2:27:48p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/6 6005	173,082	TIFF	13/09/1999 2:27:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/7 6005	174,474	TIFF	13/09/1999 2:27:16p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/8 6005	175,874	TIFF	13/09/1999 2:26:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
469/9 6005	172,674	TIFF	13/09/1999 2:26:00p.m.		Swamp	Hikurangi Swamp Major Scheme Lewis Junction
470/1 6005	266,146	TIFF	13/09/1999 2:17:00p.m.		Swamp	Hikurangi Swamp Site plan control banks Wairua River Lewis bridge Jordan bridge
470/2 6005	297,938	TIFF	13/09/1999 2:19:16p.m.		Swamp	Hikurangi Swamp Right control bank Lewis Bridge to Jordan Bridge 0.00ft to 5543.6ft
470/3 6005	259,034	TIFF	13/09/1999 2:17:48p.m.		Swamp	Hikurangi Swamp right control bank Lewis Bridge to Jordan Bridge 5543.6ft to 10907.6ft
470/4 6005	292,898	TIFF	13/09/1999 2:18:00p.m.		Swamp	Hikurangi Swamp Major Scheme Right control bank Lewis Bridge to Jordan Bridge 10907.6ft to 16190.6
470/5 6005	216,354	TIFF	13/09/1999 2:17:48p.m.		Swamp	Hikurangi Swamp Major Scheme right control bank Lewis Bridge to Jordan Bridge 16190.6ft to 17297.8ft
470/6 6005	284,018	TIFF	13/09/1999 2:18:48p.m.		Swamp	Hikurangi Swamp Major Scheme left control bank Lewis Bridge Jodan Bridge 0ft - 5270.5ft
470/7 6005	203,178	TIFF	13/09/1999 2:19:32p.m.		Swamp	Hikurangi Swamp Major Scheme left control bank Lewis Bridge Jordan Bridge 5270.5ft - 6129.7ft
470/8 6005	82,282	TIFF	13/09/1999 2:19:48p.m.		Swamp	Hikurangi Swamp Major Scheme Typical cross section of beam borrow area Hikurangi Swamp Major Scheme Mangahahuru canal Wairua river Maruarua stream proposed left stopbank
470/9 6005	244,194	TIFF	13/09/1999 2:19:48p.m.		Swamp	
471/1 6005	870,338	TIFF	13/09/1999 2:18:48p.m.		Swamp	Hikurangi Swamp Major Scheme Mangahahuru canal locality plan longitudinal section plan
471/2 6005	257,282	TIFF	13/09/1999 2:16:16p.m.		Swamp	Hikurangi Swamp Major Scheme Mangahahuru canal cross sections
471/3 6005	246,722	TIFF	13/09/1999 2:15:32p.m.		Swamp	Hikurangi Swamp Major Scheme Mangahahuru canal cross sections

Plan	Size	Format	Date/Time	Road	Type	Title
471/4 6005	233,770	TIFF	13/09/1999 2:15:32p.m.		Swamp	Hikurangi Swamp Major Scheme Mangahuru canal cross sections
472 6005	211,802	TIFF	13/09/1999 2:15:00p.m.		Swamp	Hikurangi Swamp Major Scheme Mangahuru canal outline details drop structure at mouth of Apotu Stream
473 6005	172,818	TIFF	14/09/1999 7:53:48a.m.		Swamp	Hikurangi Swamp Major Scheme Contract No 31 Scrub & Bush Clearing Lewis Bridge Jordan Bridge
474 6005	291,914	TIFF	13/09/1999 2:15:32p.m.	S-H-1	Swamp	Hikurangi Swamp Drainage Scheme Bell drain Hikurangi
475 6005	373,626	TIFF	13/09/1999 2:15:32p.m.		Swamp	Hikurangi Swamp Major Scheme Wairua River Strengthening of pile foundations W E Goings Bridge
476 6005	244,090	TIFF	13/09/1999 2:14:16p.m.		Swamp	Hikurangi Swamp Drainage Scheme Petersen drain Hikurangi
477/1 6005	326,978	TIFF	13/09/1999 2:14:16p.m.		Swamp	Hikurangi Swamp Drainage Scheme Whyte drain Hikurangi Longitudinal section & plan
477/2 6005	232,314	TIFF	13/09/1999 2:13:32p.m.		Swamp	Hikurangi Swamp Drainage Scheme Whyte drain cross sections
478 6005	645,418	TIFF	13/09/1999 2:15:32p.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme site plan Railway and S-H-1 Bridges Waiotu Whakapara Wairiki
479/1 6005	261,586	TIFF	13/09/1999 2:13:00p.m.	Swamp	Swamp	Hikurangi Swamp Major Scheme Okarika stream locality plan & plan
479/2 6005	349,706	TIFF	13/09/1999 2:15:32p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika stream longitudinal section
479/3 6005	187,298	TIFF	13/09/1999 2:13:16p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Stream cross sections 0.00ft - 2600ft
479/4 6005	204,506	TIFF	13/09/1999 2:14:16p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika stream cross sections 2800ft - 5300ft
479/5 6005	215,954	TIFF	13/09/1999 2:12:00p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Stream cross sections 5500ft - 8100ft
479/6 6005	219,034	TIFF	13/09/1999 2:11:32p.m.		Swamp	Hikurangi Swamp Major Scheme Okarika stream cross sections 8300ft - 12900ft
480 6005	632,682	TIFF	13/09/1999 2:11:48p.m.		Swamp	Hikurangi Swamp Major Scheme Pump Station Locations
480 6005	702,370	TIFF	13/09/1999 2:11:16p.m.		Swamp	Hikurangi Swamp Major Scheme pump station locations
481 6005	206,906	TIFF	14/09/1999 9:05:00a.m.		Swamp	Hikurangi Swamp Major Scheme Longsection Of Wairua River
482/1 6005	261,874	TIFF	13/09/1999 2:07:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme control banks Wairua River Jordan bridge Junction site plan
482/10 6005	174,810	TIFF	13/09/1999 2:10:16p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Junction
482/11 6005	182,122	TIFF	13/09/1999 2:09:16p.m.		Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Junction
482/12 6005	196,002	TIFF	13/09/1999 2:11:16p.m.		Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Junction
482/13 6005	263,562	TIFF	13/09/1999 2:09:48p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Junction
482/14 6005	243,994	TIFF	13/09/1999 2:11:48p.m.		Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Junction
482/15 6005	278,370	TIFF	13/09/1999 2:09:00p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Otonga control bank
482/16 6005	287,146	TIFF	13/09/1999 2:11:16p.m.		Swamp	Hikurangi Swamp Major Scheme left control bank Otonga to Junction
482/17 6005	262,850	TIFF	13/09/1999 2:10:00p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga Junction left control bank
482/18 6005	237,162	TIFF	13/09/1999 2:11:48p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga Junction left control bank
482/2 6005	482,938	TIFF	13/09/1999 2:05:16p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Control Banks Jordan Bridge Junction downstream reach
482/3 6005	390,362	TIFF	13/09/1999 2:06:16p.m.		Swamp	Hikurangi Swamp Major Scheme Control bank Jordan Bridge Junction lower middle reach
482/4 6005	264,274	TIFF	13/09/1999 2:06:16p.m.		Swamp	Hikurangi Swamp Major Scheme Control Banks Jordan Bridge Junction upper middle reach
482/5 6005	258,394	TIFF	13/09/1999 2:07:32p.m.		Swamp	Hikurangi Swamp Major Scheme Control Banks Jordan Bridge Junction upstream reach and typical cross sections
482/6 6005	343,362	TIFF	13/09/1999 2:07:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Bridge Junction longitudinal section 0ft - 104808ft
482/7 6005	272,274	TIFF	13/09/1999 2:07:32p.m.	Forsythe	Swamp	Hikurangi Swamp Major Scheme right control bank Jordan Bridge Junction longitudinal section 104808ft - 189190ft

Plan	Size	Format	Date/Time	Road	Type	Title
482/8 6005	302,346	TIFF	13/09/1999 2:07:48p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme left control bank Jordan Bridge Junction longitudinal section 0ft - 104736ft
482/9 6005	261,714	TIFF	13/09/1999 2:08:16p.m.		Swamp	Hikurangi Swamp Major Scheme left control bank Jordan Bridge Junction longitudinal section 104736ft - 187402ft
483/1 6005	200,042	TIFF	13/09/1999 2:05:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Wairua River works site plan
483/10 6005	169,594	TIFF	13/09/1999 2:02:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction Longsection 59169 - 59422ft
483/11 6005	168,378	TIFF	13/09/1999 2:03:00p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction Longsection 59474ft - 59731ft
483/12 6005	152,882	TIFF	13/09/1999 2:01:00p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction M-section 61875ft - 62077ft
483/13 6005	175,834	TIFF	13/09/1999 2:01:48p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction N-section 72699ft - 72952ft
483/14 6005	186,282	TIFF	13/09/1999 2:03:16p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction N-section 73002ft - 73256ft
483/15 6005	177,338	TIFF	13/09/1999 2:01:16p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction N-section 73307ft - 73561ft
483/16 6005	178,218	TIFF	13/09/1999 2:03:00p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction N-section 73613ft - 73861ft
483/17 6005	239,490	TIFF	13/09/1999 2:01:00p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction Wairua River O-section plan and longitudinal section
483/18 6005	166,450	TIFF	13/09/1999 1:59:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction O-section 80091ft - 80298ft
483/19 6005	174,146	TIFF	13/09/1999 1:59:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction O-section 80348ft - 80550ft
483/2 6005	234,394	TIFF	13/09/1999 2:06:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction Wairua River K-section plan & longitudinal section
483/20 6005	183,362	TIFF	13/09/1999 1:59:16p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction O-section 80599ft - 80849ft
483/21 6005	153,594	TIFF	13/09/1999 1:59:00p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction O-section 80899ft - 81251ft
483/22 6005	176,634	TIFF	13/09/1999 1:58:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction O-section 82451ft - 82051ft
483/23 6005	168,066	TIFF	13/09/1999 1:58:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction O-section 82251ft - 82551ft
483/3 6005	173,874	TIFF	13/09/1999 2:04:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction K-section 57156ft - 57446ft
483/4 6005	178,858	TIFF	13/09/1999 2:03:00p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction K-section 57499ft - 57752ft
483/5 6005	187,210	TIFF	13/09/1999 2:03:16p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction K-section 57801ft - 58049ft
483/6 6005	185,178	TIFF	13/09/1999 2:03:16p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction K-section 58100ft - 58352ft
483/7 6005	185,090	TIFF	13/09/1999 2:03:48p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction K-section 58402ft - 58656ft
483/8 6005	182,218	TIFF	13/09/1999 2:03:32p.m.		Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction K-section 58706ft - 58974ft
483/9 6005	273,810	TIFF	13/09/1999 2:02:32p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Jordan Bridge Junction Wairua River L M & N sections longitudinal sections & plans
484 6005	178,962	TIFF	13/09/1999 1:57:16p.m.		Swamp	Hikurangi Swamp Major Scheme typical X-sections adjacent to Railway & S-H-1 Bridges Waiotu Whakapara Waiariki
485 6005	1,299,573	TIFF	4/04/2000 1:45:00p.m.		Swamp	Hikurangi Swamp Major Scheme Land Subject to Flooding
486 6005	222,730	TIFF	13/09/1999 1:59:16p.m.		Swamp	Hikurangi Swamp Major Scheme Hoult's stopbank Tanekaha Te-Mata pumping pocket boundary
487 6005	272,338	TIFF	13/09/1999 1:59:48p.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme Rushbrook Road drain
488/1 6005	559,106	TIFF	13/09/1999 1:11:00p.m.		Swamp	Hikurangi Swamp Major Scheme Apotu stream drop structure reinforcing details floor cutoff wall wing wall
488/2 6005	794,002	TIFF	13/09/1999 1:11:32p.m.		Swamp	Hikurangi Swamp Major Scheme Apotu Stream drop structure steel schedule breastwall side walls
488/3 6005	481,442	TIFF	13/09/1999 1:09:00p.m.		Swamp	Hikurangi Swamp Major Scheme Apotu stream drop structure steel schedule

Plan	Size	Format	Date/Time	Road	Type	Title
489/1 6005	336,354	TIFF	13/09/1999 1:07:00p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga stopbank plan longitudinal section & locality plan
489/2 6005	199,426	TIFF	13/09/1999 1:07:00p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga stopbank X-sections pegs 1 to 5
489/3 6005	189,746	TIFF	13/09/1999 1:07:00p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga stopbank X-sections pegs 6 - 10
489/4 6005	190,234	TIFF	13/09/1999 1:07:00p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga stopbank X-sections pegs 11 to 15
489/5 6005	218,418	TIFF	13/09/1999 1:07:32p.m.		Swamp	Hikurangi Swamp Major Scheme Otonga stopbank X-sections pegs 16 to 24
490/1 6005	281,834	TIFF	13/09/1999 1:07:16p.m.		Swamp	Hikurangi Swamp Major Scheme Palmers diversion cut Wairua river 60786ft - 65076ft
490/2 6005	223,138	TIFF	13/09/1999 1:07:16p.m.		Swamp	Hikurangi Swamp Major Scheme Palmers diversion cut Wairua River crosssections
491/1 6005	291,186	TIFF	13/09/1999 1:07:32p.m.		Swamp	Hikurangi Swamp Major Scheme Redirection Hoult's Stream
491/2 6005	227,994	TIFF	13/09/1999 1:05:32p.m.		Swamp	Hikurangi Swamp Major Scheme Redirection Hoult's stream
492/1 6005	6,946,562	TIFF	14/09/1999 7:02:00a.m.	S-H-1	Swamp	Hikurangi Swamp S-H-1 Whakapara Hukerenui Section
492/2 6005	653,162	TIFF	14/09/1999 7:03:32a.m.		Swamp	Hikurangi Swamp S-H-1 Whakapara Hukerenui Improvements Waiotu River Diversions & Clearance
492/3 6005	3,949,082	TIFF	14/09/1999 7:03:00a.m.	Waiotu-Block	Swamp	Hikurangi Swamp S-H-1 Whakapara Hukerenui Section
6005 1561	59,698	TIFF	14/09/1999 8:07:32a.m.		Swamp	Hikurangi Swamp Major Scheme Land Purchase McHardy Land Ltd
6005/1	8,051,218	TIFF	14/09/1999 9:43:16a.m.		Swamp	Wairua River Plan
710 6005	64,554	TIFF	14/09/1999 7:54:48a.m.	Lovell	Swamp	Hikurangi Swamp Major Scheme Laytham Farms Ltd Ruatangata
711 6005	64,882	TIFF	14/09/1999 7:53:00a.m.	Otakairangi	Swamp	Hikurangi Swamp Major Scheme North Hope Farm Ltd Otakairangi
712 6005	67,970	TIFF	14/09/1999 7:55:48a.m.	Matarau	Swamp	Hikurangi Swamp Major Scheme W E Going Matarau
7122/23	507,714	TIFF	13/09/1999 12:31:16p.m.		Swamp Storm	Hikurangi Drainage Area
713 6005	76,322	TIFF	14/09/1999 7:53:16a.m.	Matarau	Swamp	Hikurangi Swamp Major Scheme Willowtop Farms Ltd Matarau
7135/1 6005	65,858	TIFF	14/09/1999 9:21:00a.m.		Swamp	Wairua River Plan
7135/10 6005	363,586	TIFF	14/09/1999 9:27:00a.m.		Swamp	Wairua River X-section
7135/11 6005	612,818	TIFF	14/09/1999 9:27:48a.m.		Swamp	Wairua River X-section
7135/12 6005	615,810	TIFF	14/09/1999 9:27:00a.m.		Swamp	Wairua River X-section
7135/13 6005	425,314	TIFF	14/09/1999 9:27:16a.m.		Swamp	Wairua River X-section
7135/14 6005	625,658	TIFF	14/09/1999 9:30:00a.m.		Swamp	Wairua River X-section
7135/15 6005	590,218	TIFF	14/09/1999 9:29:16a.m.		Swamp	Wairua River X-section
7135/16 6005	418,682	TIFF	14/09/1999 9:31:16a.m.		Swamp	Wairua River X-section
7135/17 6005	374,402	TIFF	14/09/1999 9:29:48a.m.		Swamp	Wairua River X-section
7135/18 6005	341,850	TIFF	14/09/1999 9:31:48a.m.		Swamp	Wairua River X-section
7135/19 6005	85,954	TIFF	14/09/1999 9:31:16a.m.		Swamp	Wairua River Plan
7135/2 6005	84,274	TIFF	14/09/1999 9:22:32a.m.		Swamp	Wairua River Plan
7135/20 6005	54,034	TIFF	14/09/1999 9:31:32a.m.		Swamp	Wairua River Plan
7135/21 6005	59,546	TIFF	14/09/1999 9:31:32a.m.		Swamp	Wairua River Plan
7135/22 6005	54,330	TIFF	14/09/1999 9:31:32a.m.		Swamp	Wairua River Longsection Severances
7135/23 6005	36,322	TIFF	14/09/1999 9:31:16a.m.		Swamp	Wairua River Longsection Severances
7135/24 6005	225,106	TIFF	14/09/1999 9:31:00a.m.		Swamp	Wairua River X-section
7135/25 6005	426,778	TIFF	14/09/1999 9:33:16a.m.		Swamp	Wairua River X-section
7135/26 6005	334,186	TIFF	14/09/1999 9:35:16a.m.		Swamp	Wairua River X-section

Plan	Size	Format	Date/Time	Road	Type	Title
7135/27 6005	371,258	TIFF	14/09/1999 9:35:16a.m.		Swamp	Wairua River X-section
7135/28 6005	315,954	TIFF	14/09/1999 9:33:48a.m.		Swamp	Wairua River X-section
7135/29 6005	236,066	TIFF	14/09/1999 9:35:32a.m.		Swamp	Wairua River X-section
7135/3 6005	73,994	TIFF	14/09/1999 9:23:32a.m.		Swamp	Wairua River Plan
7135/30 6005	171,026	TIFF	14/09/1999 9:33:16a.m.		Swamp	Wairua River X-section
7135/31 6005	415,186	TIFF	14/09/1999 9:35:16a.m.		Swamp	Wairua River X-section
7135/32 6005	99,770	TIFF	14/09/1999 9:34:16a.m.		Swamp	Wairua River X-section
7135/33 6005	274,050	TIFF	14/09/1999 9:34:48a.m.		Swamp	Wairua River X-section
7135/34 6005	252,762	TIFF	14/09/1999 9:35:32a.m.		Swamp	Wairua River X-section
7135/35 6005	324,002	TIFF	14/09/1999 9:35:32a.m.		Swamp	Wairua River X-section
7135/36 6005	346,290	TIFF	14/09/1999 9:35:48a.m.		Swamp	Wairua River X-section
7135/37 6005	66,290	TIFF	14/09/1999 9:35:16a.m.		Swamp	Wairua River X-section
7135/38 6005	126,810	TIFF	14/09/1999 9:35:00a.m.		Swamp	Wairua River Plan
7135/39 6005	41,122	TIFF	14/09/1999 9:35:16a.m.		Swamp	Wairua River Plan
7135/4 6005	60,666	TIFF	14/09/1999 9:23:32a.m.		Swamp	Wairua River Longsection Severances
7135/40 6005	49,698	TIFF	14/09/1999 9:36:32a.m.		Swamp	Wairua River Longsection Severances
7135/41 6005	376,890	TIFF	14/09/1999 9:39:00a.m.		Swamp	Wairua River X-section
7135/42 6005	240,370	TIFF	14/09/1999 9:37:00a.m.		Swamp	Hikurangi Swamp Wairua River X-section
7135/43 6005	571,026	TIFF	14/09/1999 9:39:00a.m.		Swamp	Hikurangi Swamp Wairua River X-section
7135/44 6005	488,994	TIFF	14/09/1999 9:37:48a.m.		Swamp	Hikurangi Swamp Wairua River X-section
7135/45 6005	455,762	TIFF	14/09/1999 9:38:00a.m.		Swamp	Hikurangi Swamp Wairua River X-section
7135/4a 6005	1,476,818	TIFF	14/09/1999 9:24:16a.m.		Swamp	Mangawhero Stream X-section
7135/5 6005	488,786	TIFF	14/09/1999 9:27:16a.m.		Swamp	Wairua River X-section
7135/6 6005	521,242	TIFF	14/09/1999 9:25:48a.m.		Swamp	Wairua River X-section
7135/7 6005	616,698	TIFF	14/09/1999 9:26:32a.m.		Swamp	Wairua River X-section
7135/8 6005	569,634	TIFF	14/09/1999 9:26:48a.m.		Swamp	Wairua River X-section
7135/9 6005	609,802	TIFF	14/09/1999 9:27:00a.m.		Swamp	Wairua River X-section
714 6005	69,906	TIFF	14/09/1999 7:53:16a.m.		Swamp	Hikurangi Swamp Major Scheme North Hope Farm Ltd Otakairangi
715 6005	72,370	TIFF	14/09/1999 7:55:16a.m.	Swamp	Swamp	Hikurangi Swamp Major Scheme G A & V R Speirs Matarau
716 6005	66,242	TIFF	14/09/1999 7:55:16a.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme G A & V R Speirs Matarau
717 6005	73,546	TIFF	14/09/1999 7:55:00a.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme ATO Brown Matarua
718 6005	73,610	TIFF	14/09/1999 7:55:32a.m.	Swamp	Swamp	Hikurangi Swamp Major Scheme E Corse Scott Tanekaha
719 6005	71,506	TIFF	14/09/1999 7:55:32a.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme R B & B J Gordon Matarua
720 6005	89,266	TIFF	14/09/1999 7:55:16a.m.	Rushbrook Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Mrs M V Snell Jordan Valley
721 6005	77,674	TIFF	14/09/1999 7:56:48a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme B Smith Tanekaha
722 6005	69,906	TIFF	14/09/1999 7:57:48a.m.		Swamp	Hikurangi Swamp Major Scheme B D & C T Armiger Tanekaha
723 6005	73,018	TIFF	14/09/1999 7:59:00a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme C L Palmer & Sons Ltd Apotu
724 6005	76,114	TIFF	14/09/1999 7:57:00a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme F Long Tanekaha

Plan	Size	Format	Date/Time	Road	Type	Title
725 6005	63,250	TIFF	14/09/1999 7:57:00a.m.	Lovell	Swamp	Hikurangi Swamp Major Scheme Lovell Land Ltd Purua
726 6005	48,858	TIFF	14/09/1999 7:59:00a.m.	Lovell	Swamp	Hikurangi Swamp Major Scheme R M Coote Otakairangi
727 6005	70,170	TIFF	14/09/1999 7:59:00a.m.		Swamp	Hikurangi Swamp Major Scheme D & S M Wihongi Matarau
728 6005	98,410	TIFF	14/09/1999 7:57:32a.m.	Tanekaha	Swamp	Hikurangi Swamp Major Scheme J A Ilich Tanekaha
729 6005	68,138	TIFF	14/09/1999 7:57:32a.m.	Tanekaha	Swamp	Hikurangi Swamp Major Scheme R G Dickson Tanekaha
730 6005	70,554	TIFF	14/09/1999 7:59:32a.m.	Tanekaha	Swamp	Hikurangi Swamp Major Scheme J A Ilich Tanekaha
731 6005	85,882	TIFF	14/09/1999 7:59:32a.m.	Tanekaha	Swamp	Hikurangi Swamp Major Scheme R W Hoult Tanekaha
732 6005	87,138	TIFF	14/09/1999 7:57:32a.m.		Swamp	Hikurangi Swamp Major Scheme McHardy Land Ltd Tanekaha
733 6005	81,122	TIFF	14/09/1999 7:57:16a.m.	Quarry	Swamp	Hikurangi Swamp Major Scheme Watson Tanekaha
734 6005	70,058	TIFF	14/09/1999 7:59:16a.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme Land To Be Leased To J Smith Jordan Valley
735 6005	93,322	TIFF	14/09/1999 7:58:16a.m.		Swamp	Hikurangi Swamp Major Scheme April Properties Ltd Otonga
736 6005	133,426	TIFF	14/09/1999 7:59:16a.m.		Swamp	Hikurangi Swamp Major Scheme BK & ME Judd Otonga
737 6005	74,274	TIFF	14/09/1999 7:59:48a.m.		Swamp	Hikurangi Swamp Major Scheme Crown Land RR Davies Lessee Whakapara
738 6005	81,282	TIFF	14/09/1999 7:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Crown Land WJ Reid Lessee Whakapara
739 6005	64,994	TIFF	14/09/1999 7:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Crown Land BR Attwood (Lessee) Whakapara
740 6005	61,570	TIFF	14/09/1999 7:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Crown Land GW Storey (Lessee) Whakapara
741 6005	70,178	TIFF	14/09/1999 7:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Crown Land RH & MA Barrell Lessees Whakapara
742 6005	68,114	TIFF	14/09/1999 7:59:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme RG & RM Andrews Whakapara
743 6005	86,314	TIFF	14/09/1999 8:01:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme D A Powell Whakapara
744 6005	63,474	TIFF	14/09/1999 8:03:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme R L & V M Jobe Whakapara
745 6005	83,130	TIFF	14/09/1999 8:02:00a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme R L & V M Jobe Whakapara
746 6005	87,730	TIFF	14/09/1999 8:01:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Richard Edwards Whakapara
747 6005	75,986	TIFF	14/09/1999 8:01:32a.m.		Swamp	Hikurangi Swamp Major Scheme Mrs R M Pickens Whakapara
748 6005	65,666	TIFF	14/09/1999 8:03:48a.m.		Swamp	Hikurangi Swamp Major Scheme E L Edwards Waitutu
749 6005	70,858	TIFF	14/09/1999 8:02:16a.m.		Swamp	Hikurangi Swamp Major Scheme W Birch Waitutu
750 6005	102,618	TIFF	14/09/1999 8:03:16a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Fairlight Farms Ltd Waitutu
751 6005	83,490	TIFF	14/09/1999 8:02:16a.m.	S-H-1 Waitutu-Block	Swamp	Hikurangi Swamp Major Scheme P H & B F Pitman & Others c/o Maori Trustee
753 6005	71,802	TIFF	14/09/1999 8:03:16a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme C M & M I White Waitutu
754 6005	46,674	TIFF	14/09/1999 8:03:16a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme C M & M I White Waitutu
755 6005	60,442	TIFF	14/09/1999 8:03:16a.m.		Swamp	Hikurangi Swamp Major Scheme A C Smeath Waitutu
756 6005	82,274	TIFF	14/09/1999 8:03:16a.m.		Swamp	Hikurangi Swamp Major Scheme H A Corney & Sons Ltd Tanekaha
757 6005	108,730	TIFF	14/09/1999 8:03:16a.m.		Swamp	Hikurangi Swamp Major Scheme P A & V H Lambert Tanekaha
758 6005	94,106	TIFF	14/09/1999 8:03:32a.m.	Rushbrook	Swamp	Hikurangi Swamp Major Scheme L E Attwood Matarau Hikurangi Swamp Drainage Scheme Area Cut Off By Bell Drive Reconstruction C W Bell Owner
759 6005	105,954	TIFF	14/09/1999 8:03:48a.m.	S-H-1 Jordan-Valley	Swamp	Hikurangi
7591/1	135,363	TIFF	27/07/1999 10:51:48a.m.	Jordan-Valley Heaton Wairua Rushbrook S-H-1 Apotu	Storm Swamp	Hikurangi Swamp Stopbank Repair Jordan Valley Rd to Tanekaha Pump Stn Site And Locality Plans
760 6005	133,978	TIFF	14/09/1999 8:03:00a.m.	Apotu Jordan-Valley Rushbrook	Swamp	Hikurangi Swamp Major Scheme L McCarthy Apotu

Plan	Size	Format	Date/Time	Road	Type	Title
806 6005	64,498	TIFF	14/09/1999 8:03:32a.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme A C Crawford Apotu
826/1 6005	509,354	TIFF	13/09/1999 1:07:16p.m.		Swamp	Hikurangi Swamp Major Scheme Northland catchment commission
841 6005	43,754	TIFF	14/09/1999 8:03:48a.m.	Lovell	Swamp	Hikurangi Swamp Major Scheme Shephard & Co Ltd Purua
842 6005	60,938	TIFF	14/09/1999 8:04:16a.m.	Lovell	Swamp	Hikurangi Swamp Major Scheme North Hope Farm Ltd Otakairangi
843 6005	65,482	TIFF	14/09/1999 8:05:00a.m.	Lovell Matarau	Swamp	Hikurangi Swamp Major Scheme North Hope Farm Ltd Otakairangi
847/1 6005	264,946	TIFF	13/09/1999 1:07:16p.m.	Jordan-Valley	Swamp	Hikurangi Swamp Major Scheme Crawfords drain plan
847/2 6005	354,178	TIFF	13/09/1999 1:07:16p.m.		Longsection Swamp	Hikurangi Swamp Major Scheme Crawfords drain longitudinal section
847/3 6005	238,834	TIFF	13/09/1999 1:05:00p.m.		Longsection Swamp	Hikurangi Swamp Major Scheme Crawfords drain cross section
847/4 6005	213,562	TIFF	13/09/1999 1:01:48p.m.		Longsection Swamp	Hikurangi Swamp Major Scheme Crawfords drain cross sections
849 6005	313,642	TIFF	13/09/1999 1:03:00p.m.		Swamp	Hikurangi Swamp Major Scheme Te-Mata pump station access track
863 6005	200,738	TIFF	13/09/1999 12:51:00p.m.		Swamp Bridge	Hikurangi Swamp Major Scheme Whakapara Railway Bridge 148
878 6005	429,642	TIFF	13/09/1999 12:51:16p.m.		Swamp	Hikurangi Swamp Major Scheme Layout Plans Of Pump Station
879 6005	348,538	TIFF	13/09/1999 12:51:00p.m.		Swamp	Hikurangi Swamp Major Scheme Layout of Switchgear and controls
879/2 6005	6,742,090	TIFF	13/09/1999 12:43:32p.m.		Swamp	Hikurangi Swamp Drainage Scheme Layout Of Switchgear & Controls
879/3 6005	3,892,202	TIFF	13/09/1999 12:47:16p.m.		Swamp	Hikurangi Swamp Drainage Scheme Layout of typical station wiring diagram
879/4 6005	486,578	TIFF	13/09/1999 12:45:00p.m.		Swamp	Hikurangi Swamp Drainage Scheme electrode holders details
901 6005	137,402	TIFF	14/09/1999 7:26:48a.m.	S-H-1	Swamp	Whakapara River Proposed River Diversion - Property - D Houston
902 6005	123,362	TIFF	14/09/1999 7:27:00a.m.	Heaton Otakairangi	Swamp	Hikurangi Swamp Major Scheme Proposed Drain Drake Drain Otaikarangi Drain
903 6005	264,906	TIFF	13/09/1999 12:43:48p.m.		Swamp	Hikurangi Swamp Major Scheme Okaika Pumping Station
903/1 6005	246,290	TIFF	2/09/1999 11:10:32a.m.	Matarau	Swamp	Hikurangi Swamp Major Scheme Ngararatunua Okarika Station
903/1 6005	270,010	TIFF	2/09/1999 11:09:48a.m.	Lovell Matarau	Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/10 6005	688,242	TIFF	2/09/1999 11:19:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/11 6005	760,354	TIFF	2/09/1999 11:19:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/12 6005	779,746	TIFF	2/09/1999 11:17:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/13 6005	815,010	TIFF	2/09/1999 11:17:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/14 6005	706,314	TIFF	2/09/1999 11:18:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/15 6005	833,186	TIFF	2/09/1999 11:15:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/16 6005	724,170	TIFF	2/09/1999 11:15:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/17 6005	744,354	TIFF	2/09/1999 11:15:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/18 6005	737,882	TIFF	2/09/1999 11:14:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/19 6005	694,546	TIFF	2/09/1999 11:26:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/2 6005	576,170	TIFF	2/09/1999 8:14:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/20 6005	765,994	TIFF	2/09/1999 11:27:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/21 6005	529,114	TIFF	2/09/1999 11:25:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/22 6005	879,682	TIFF	2/09/1999 11:27:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/23 6005	597,954	TIFF	2/09/1999 11:27:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/24 6005	564,882	TIFF	2/09/1999 11:25:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station

Plan	Size	Format	Date/Time	Road	Type	Title
903/25 6005	495,082	TIFF	2/09/1999 11:26:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/26 6005	434,698	TIFF	2/09/1999 11:24:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/27 6005	580,658	TIFF	2/09/1999 11:23:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/28 6005	591,154	TIFF	2/09/1999 11:23:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/29 6005	596,562	TIFF	2/09/1999 11:23:16a.m.		Swamp	Okarika Pumping Station Inlet Partition Wall
903/3 6005	368,394	TIFF	2/09/1999 8:13:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/30 6005	984,218	TIFF	2/09/1999 11:23:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/31 6005	963,250	TIFF	2/09/1999 11:50:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/32 6005	846,754	TIFF	2/09/1999 11:51:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/32a 6005	557,610	TIFF	2/09/1999 11:23:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/33 6005	993,794	TIFF	2/09/1999 11:49:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/34 6005	848,658	TIFF	2/09/1999 11:49:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/35 6005	755,818	TIFF	2/09/1999 11:51:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/36 6005	749,178	TIFF	2/09/1999 11:49:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/37 6005	749,722	TIFF	2/09/1999 11:48:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/38 6005	783,554	TIFF	2/09/1999 11:47:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/39 6005	757,818	TIFF	2/09/1999 11:47:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/4 6005	109,506	TIFF	2/09/1999 11:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/4 6005	353,634	TIFF	2/09/1999 11:22:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/40 6005	804,938	TIFF	2/09/1999 11:47:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/41 6005	889,250	TIFF	2/09/1999 11:47:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/42 6005	704,234	TIFF	2/09/1999 11:47:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/43 6005	731,978	TIFF	2/09/1999 11:47:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/44 6005	925,802	TIFF	2/09/1999 11:45:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/45 6005	814,218	TIFF	2/09/1999 11:45:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/46 6005	546,482	TIFF	2/09/1999 11:43:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/47 6005	401,970	TIFF	2/09/1999 11:43:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/48 6005	1,811,842	TIFF	2/09/1999 11:43:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/49 6005	1,688,282	TIFF	2/09/1999 11:43:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/5 6005	317,154	TIFF	2/09/1999 11:21:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/50 6005	1,234,506	TIFF	2/09/1999 11:43:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/51 6005	359,858	TIFF	2/09/1999 11:43:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/52 6005	706,002	TIFF	2/09/1999 11:39:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/53 6005	639,466	TIFF	2/09/1999 11:39:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/54 6005	607,762	TIFF	2/09/1999 11:39:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/55 6005	126,402	TIFF	2/09/1999 10:51:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/56 6005	662,802	TIFF	2/09/1999 10:51:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/57 6005	947,058	TIFF	2/09/1999 10:48:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station

Plan	Size	Format	Date/Time	Road	Type	Title
903/58 6005	304,426	TIFF	2/09/1999 10:47:16a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/59 6005	298,186	TIFF	2/09/1999 10:47:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/6 6005	306,306	TIFF	2/09/1999 11:21:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/7 6005	293,314	TIFF	2/09/1999 11:19:48a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/8 6005	301,354	TIFF	2/09/1999 11:19:00a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
903/9 6005	881,370	TIFF	2/09/1999 11:19:32a.m.		Swamp	Hikurangi Swamp Major Scheme Okarika Pumping Station
904 6005	69,362	TIFF	2/09/1999 11:06:32a.m.		Swamp	Hikurangi Swamp Major Scheme Proposed Redirection Of Potters Drain
905/1 6005	86,834	TIFF	2/09/1999 11:03:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Proposed Waiariki River Channel
905/1a 6005	262,010	TIFF	2/09/1999 11:02:48a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Proposed Waiariki River Channel Between North Auckland & S-H-1
905/2 6005	60,842	TIFF	2/09/1999 11:03:16a.m.		Swamp	Hikurangi Swamp Major Scheme Proposed Waiariki River Channel Cross Sections
905/3 6005	71,834	TIFF	2/09/1999 11:03:16a.m.	S-H-1	Storm Swamp	Hikurangi Swamp Major Scheme Proposed Waiariki River Channel
905/4 6005	236,018	TIFF	2/09/1999 11:03:48a.m.		Swamp	Hikurangi Swamp Major Scheme Waiariki Stream
906 6005	717,954	TIFF	2/09/1999 11:03:00a.m.		Swamp	Hikurangi Swamp Major Scheme Pumping Station Screens
907/1 6005	343,594	TIFF	2/09/1999 11:03:00a.m.		Swamp	Hikurangi Swamp Major Scheme Pumping Station Installation Of Pumps
907/2 6005	372,210	TIFF	2/09/1999 10:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Pumping Stations
908 6005	218,690	TIFF	2/09/1999 11:01:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/1 6005	84,250	TIFF	2/09/1999 10:59:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/10 6005	132,162	TIFF	2/09/1999 10:58:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/11 6005	128,234	TIFF	2/09/1999 10:58:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/12 6005	140,762	TIFF	2/09/1999 10:56:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/13 6005	132,394	TIFF	2/09/1999 10:55:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/14 6005	124,226	TIFF	2/09/1999 10:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/15 6005	112,034	TIFF	2/09/1999 10:55:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/16 6005	107,018	TIFF	2/09/1999 10:55:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/17 6005	104,762	TIFF	2/09/1999 10:53:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/18 6005	123,954	TIFF	2/09/1999 10:55:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/19 6005	600,418	TIFF	2/09/1999 10:54:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/2 6005	485,674	TIFF	2/09/1999 8:05:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/20 6005	607,866	TIFF	2/09/1999 10:51:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/21 6005	655,698	TIFF	2/09/1999 10:52:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/22 6005	63,994	TIFF	2/09/1999 10:51:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/23 6005	122,226	TIFF	2/09/1999 10:51:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/24 6005	139,826	TIFF	2/09/1999 10:50:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/25 6005	122,170	TIFF	2/09/1999 10:50:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/26 6005	105,674	TIFF	2/09/1999 10:49:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/27 6005	90,770	TIFF	2/09/1999 10:50:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/28 6005	86,754	TIFF	2/09/1999 11:09:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/29 6005	108,282	TIFF	2/09/1999 11:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station

Plan	Size	Format	Date/Time	Road	Type	Title
908/3 6005	78,618	TIFF	2/09/1999 8:07:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/30 6005	110,610	TIFF	2/09/1999 11:09:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/31 6005	140,266	TIFF	2/09/1999 11:10:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/32 6005	142,818	TIFF	2/09/1999 11:08:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/33 6005	116,290	TIFF	2/09/1999 11:07:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/34 6005	116,466	TIFF	2/09/1999 11:07:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/35 6005	89,218	TIFF	2/09/1999 11:07:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/36 6005	91,082	TIFF	2/09/1999 11:07:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/37 6005	147,386	TIFF	2/09/1999 11:07:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/38 6005	142,546	TIFF	2/09/1999 11:07:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/39 6005	155,906	TIFF	2/09/1999 11:07:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/4 6005	368,754	TIFF	14/09/1999 9:06:16a.m.		Swamp	Ngararatunua Pumping Station
908/40 6005	134,842	TIFF	2/09/1999 11:05:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/41 6005	121,426	TIFF	2/09/1999 11:07:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/42 6005	141,458	TIFF	2/09/1999 11:07:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/43 6005	142,938	TIFF	2/09/1999 11:05:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/44 6005	119,266	TIFF	2/09/1999 11:15:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/45 6005	100,194	TIFF	2/09/1999 11:13:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/46 6005	687,402	TIFF	2/09/1999 11:15:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/47 6005	188,074	TIFF	2/09/1999 11:13:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/48 6005	149,626	TIFF	2/09/1999 11:13:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/49 6005	80,482	TIFF	2/09/1999 11:14:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/50 6005	151,738	TIFF	2/09/1999 11:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/51 6005	151,338	TIFF	2/09/1999 11:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/52 6005	150,186	TIFF	2/09/1999 11:11:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/53 6005	132,514	TIFF	2/09/1999 11:11:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/54 6005	80,379	TIFF	14/09/1999 7:43:32a.m.		Swamp	Hikurangi Swamp Hollow Core Beams For Ngararatunua Pumping Station
908/6 6005	365,378	TIFF	2/09/1999 11:03:16a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/7 6005	73,410	TIFF	2/09/1999 10:59:48a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/8 6005	161,226	TIFF	2/09/1999 10:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
908/9 6005	118,314	TIFF	2/09/1999 10:59:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
909/1 6005	99,474	TIFF	2/09/1999 11:11:32a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
909/2 6005	64,834	TIFF	2/09/1999 11:11:00a.m.		Swamp	Hikurangi Swamp Major Scheme Ngararatunua Pumping Station
910 6005	277,980	TIFF	3/04/2000 2:21:00p.m.		Swamp	Hikurangi Swamp Major Scheme Drainage pattern mountain pocket
961/1 6005	685,602	TIFF	2/09/1999 7:59:32a.m.	S-H-1 Puhipuhi Russell Forsythe	Swamp	Waiotu River Survey Junction To State Highway Sections
961/10 6005	139,010	TIFF	2/09/1999 7:17:32a.m.	S-H-1	Swamp	Waiotu River Survey Junction To State Highway Section Plan
961/11 6005	537,914	TIFF	2/09/1999 7:19:16a.m.	Waiotu-Block	Swamp	Waiotu River Survey Junction To State Highway Section Plan
961/2 6005	127,402	TIFF	2/09/1999 7:59:16a.m.		Swamp	Waiotu River Survey Junction To State Highway Sections

Plan	Size	Format	Date/Time	Road	Type	Title
961/3 6005	125,386	TIFF	2/09/1999 8:00:00a.m.	S-H-1 Waiotu-Block	Swamp	Waiotu River Survey Junction To State Highway Sections
961/4 6005	170,282	TIFF	2/09/1999 8:02:00a.m.		Swamp	Waiotu River Survey Junction To State Highway Sections
961/5 6005	185,114	TIFF	2/09/1999 8:01:00a.m.		Swamp	Waiotu & Waiariki River Survey Junction To State Highway Sections
961/6 6005	160,882	TIFF	2/09/1999 8:03:00a.m.		Swamp	Waiotu River Survey Junction To State Highway Sections
961/7 6005	104,010	TIFF	2/09/1999 8:01:48a.m.		Swamp	Waiotu River Survey Junction To State Highway Sections
961/8 6005	117,058	TIFF	2/09/1999 8:02:00a.m.		Swamp	Waiotu River Survey Junction To State Highway Sections
961/9 6005	99,578	TIFF	2/09/1999 7:17:16a.m.		Swamp	Waiotu River Survey Junction To State Highway Section Plan
962/1 6005	93,194	TIFF	2/09/1999 7:59:32a.m.		Swamp	Hikurangi Swamp Major Scheme Maruarua Stream Reconstruction
962/2 6005	96,274	TIFF	2/09/1999 7:59:16a.m.		Swamp	Hikurangi Swamp Major Scheme Maruarua Stream Reconstruction Pumping Storage
962/3 6005	49,946	TIFF	2/09/1999 7:58:16a.m.		Swamp	Hikurangi Swamp Major Scheme Maruarua Stream Pumping Storage
962/4 6005	47,906	TIFF	2/09/1999 7:58:00a.m.		Swamp	Hikurangi Swamp Major Scheme Maruarua Stream Pumping Storage
962/5 6005	49,898	TIFF	2/09/1999 7:57:32a.m.		Swamp	Hikurangi Swamp Major Scheme Maruarua Stream Pumping Storage Bay
979/1 6005	771,122	TIFF	2/09/1999 7:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara & Waiotu River Survey Junction To State Highway Section Plan
979/10 6005	98,218	TIFF	2/09/1999 7:58:32a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/11 6005	108,658	TIFF	2/09/1999 7:57:32a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/12 6005	119,698	TIFF	2/09/1999 7:59:48a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/13 6005	103,634	TIFF	2/09/1999 7:57:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/14 6005	122,106	TIFF	2/09/1999 7:59:32a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/2 6005	530,242	TIFF	2/09/1999 7:53:32a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section Plan
979/3 6005	140,890	TIFF	2/09/1999 7:55:16a.m.	S-H-1	Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section Plan
979/4 6005	147,842	TIFF	2/09/1999 7:55:48a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/5 6005	164,242	TIFF	2/09/1999 7:55:48a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/6 6005	159,130	TIFF	2/09/1999 7:55:00a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/7 6005	118,514	TIFF	2/09/1999 7:55:16a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
979/8 6005	95,714	TIFF	2/09/1999 7:55:16a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara & Waiotu River Survey Junction To State Highway Section
979/9 6005	81,490	TIFF	2/09/1999 7:56:16a.m.		Swamp	Hikurangi Swamp Major Scheme Whakapara River Survey Junction To State Highway Section
980/1 6005	622,506	TIFF	2/09/1999 8:09:00a.m.		Swamp	Hikurangi Swamp Major Scheme 9Ft By 8Ft Steel Floodgate
980/2 6005	458,810	TIFF	2/09/1999 8:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme 9Ft By 8Ft Steel Floodgate
980/3 6005	317,034	TIFF	2/09/1999 8:11:16a.m.		Swamp	Hikurangi Swamp Major Scheme Floodgate Hinge Assembly
981 6005	103,994	TIFF	14/09/1999 8:06:32a.m.		Swamp	Hikurangi Swamp Major Scheme Handrail Supports For Pumping Stations
99/1 6005	1,053,672	TIFF	3/04/2000 2:17:00p.m.		Swamp	Hikurangi Swamp Catchment
99/2 6005	700,304	TIFF	3/04/2000 2:17:32p.m.		Swamp	Hikurangi Swamp Catchment
99/3 6005	391,668	TIFF	3/04/2000 2:15:00p.m.		Swamp	Hikurangi Swamp Catchment
99/4 6005	1,347,676	TIFF	3/04/2000 2:15:00p.m.		Swamp	Hikurangi Swamp Catchment
99/5 6005	576,372	TIFF	3/04/2000 2:15:16p.m.		Swamp	Hikurangi Swamp Catchment
99/6 6005	742,272	TIFF	3/04/2000 2:15:16p.m.		Swamp	Hikurangi Swamp Catchment
99/7 6005	476,892	TIFF	3/04/2000 2:15:16p.m.		Swamp	Hikurangi Swamp Catchment

Plan	Size	Format	Date/Time	Road	Type	Title
99/8 6005	358,700	TIFF	3/04/2000 2:14:16p.m.		Swamp	Hikurangi Swamp Catchment
993/1/C 6005	93,612	TIFF	24/01/2000 10:57:16a.m.		Swamp	Hikurangi Swamp Major Scheme Left control bank Lewis bridge Jordan bridge 0ft - 5350.1ft
993/2/C 6005	50,686	TIFF	24/01/2000 10:57:32a.m.		Swamp	Hikurangi Swamp Major Scheme Left control bank Lewis Bridge Jordan Bridge 5350.1ft - 6434.5ft