

Metadata Information for Biological Heritage NSC Theme 2: Empowering Kaitiakitanga & Environmental Stewardship – Restoring Urban Freshwater Diversity

Surveys 1 & 2 - Citizens' Reporting of Pollution in Stormwater Drains and Waterways

Tab/File Name	Field/Column # (e.g. A, B...XY)	Column Title/Description	Unit of measurement
SurveyOneData	A	ID / individual identity number	n/a
SurveyOneData	B	Age	years
SurveyOneData	C	Gender	Categorical
SurveyOneData	D	Ethnicity	Categorical
SurveyOneData	E	EDescribe / Description of 'other' ethnicity category	Categorical
SurveyOneData	F	Location / Location by Region group	Categorical
SurveyOneData	G	Dwelling / Type of dwelling	Categorical
SurveyOneData	H	OwnHome / Home ownership	Y/N
SurveyOneData	I	OwnCar / Own a car	Y/N
SurveyOneData	J	OwnDog / Own a dog	Y/N
SurveyOneData	K	Roofing / Does home possess zinc-free roofing	Y/N/Unsure
SurveyOneData	L	Piping / Does home possess copper-free piping	Y/N/Unsure
SurveyOneData	M	HaveGarden / Does home have a garden area	Y/N
SurveyOneData	N	GDesign / Designed your garden to reduce water entering drains	Y/N
SurveyOneData	O	GArea / Increased the size area of the planted garden or lawns	Y/N
SurveyOneData	P	Watertank / Installed a above-ground rainwater tank	Y/N
SurveyOneData	Q	LessConcrete / Replaced concrete surfaces with gravel or grass	Y/N
SurveyOneData	R	BrakePads / Does car or motorcycle have copper-free brake pads	All/Some/None/Uncertain
SurveyOneData	S	DriveLess / Purposefully reduced driving in the past 12 months	Y/N
SurveyOneData	T	BusMore / Increased use of public transportation during the past 12 months	Y/N
SurveyOneData	U	DogPoo / Frequency sweep or leave dog poo into the street or gutter	Likert Scale 0 to 4
SurveyOneData	V	PickUpLitter / Frequency pick up litter in the street	Likert Scale 0 to 4
SurveyOneData	W	SecureGarbage / Frequency ensured rubbish is secure for Council collection	Likert Scale 0 to 4
SurveyOneData	X	ReportPollution / Frequency reported pollution of waterways / drains to Council	Likert Scale 0 to 4
SurveyOneData	Y	ReportWeeds / Frequency reported waterway weeds to the Council	Likert Scale 0 to 4
SurveyOneData	Z	ReportPests / Frequency reported waterway pests to the Council	Likert Scale 0 to 4
SurveyOneData	AA	FishBarriers / Frequency reported potential fish passage barriers	Likert Scale 0 to 4
SurveyOneData	AB	Submission / Frequency made submission to Council about water planning	Likert Scale 0 to 4
SurveyOneData	AC	AttendWorkshop / Frequency attended workshops about urban freshwater issues	Likert Scale 0 to 4
SurveyOneData	AD	TeManaOTeWai / Frequency attended workshops about Te Mana o te Wai	Likert Scale 0 to 4
SurveyOneData	AE	GroupRestore / involved with a community waterway restoration group	Y/N
SurveyOneData	AF	GTrees / Planting trees near waterways with group	Likert Scale 0 to 4
SurveyOneData	AG	GChannels / Restoring natural stream channels with group	Likert Scale 0 to 4
SurveyOneData	AH	GMonitor / Monitoring stream health with group	Likert Scale 0 to 4
SurveyOneData	AI	GWeed / Removing weeds with group	Likert Scale 0 to 4
SurveyOneData	AJ	GPests / Controlling pest animals with group	Likert Scale 0 to 4
SurveyOneData	AK	OwnRestore / Involved in own waterway restoration	Y/N
SurveyOneData	AL	OTrees / Planting trees near waterways on own	Likert Scale 0 to 4
SurveyOneData	AM	OChannels / Restoring natural stream channels on own	Likert Scale 0 to 4
SurveyOneData	AN	OMonitor / Monitoring stream health on own	Likert Scale 0 to 4
SurveyOneData	AO	OWeed / Removing weeds on own	Likert Scale 0 to 4
SurveyOneData	AP	OPests / Controlling pest animals on own	Likert Scale 0 to 4
SurveyOneData	AQ	WDesign / Willingness to design your garden to reduce water entering drains	Likert Scale 0 to 4
SurveyOneData	AR	WArea / Willingness to increase the size area of the planted garden or lawns	Likert Scale 0 to 4
SurveyOneData	AS	WWaterTank / Willingness to install an above-ground rainwater tank	Likert Scale 0 to 4
SurveyOneData	AT	WConcrete / Willingness to replace concrete surfaces with gravel or grass	Likert Scale 0 to 4
SurveyOneData	AU	WRoofing / Willingness to install zinc-free roofing	Likert Scale 0 to 4
SurveyOneData	AV	WPiping / Willingness to install copper-free piping	Likert Scale 0 to 4
SurveyOneData	AW	WBrakePads / Willingness to install copper-free brake pads	Likert Scale 0 to 4
SurveyOneData	AX	WDriveLess / Willingness to reduce driving	Likert Scale 0 to 4
SurveyOneData	AY	WBusMore / Willingness to take public transport more	Likert Scale 0 to 4
SurveyOneData	AZ	WLitter / Willingness to pick up litter	Likert Scale 0 to 4
SurveyOneData	BA	WGarbage / Willingness to secure garbage	Likert Scale 0 to 4
SurveyOneData	BB	WDogPoo / Willingness to pick up dog poo	Likert Scale 0 to 4
SurveyOneData	BC	WGTrees / Willingness to plant trees with a community group	Likert Scale 0 to 4
SurveyOneData	BD	WGChannels / Willingness to restore natural channels with a community group	Likert Scale 0 to 4
SurveyOneData	BE	WGMonitor / Willingness to monitor stream health with a community group	Likert Scale 0 to 4
SurveyOneData	BF	WGWeeds / Willingness to remove weeds with a community group	Likert Scale 0 to 4
SurveyOneData	BG	WGPests / Willingness to control pests with a community group	Likert Scale 0 to 4
SurveyOneData	BH	WOTrees / Willingness to plant trees on your own	Likert Scale 0 to 4
SurveyOneData	BI	WOChannels / Willingness to restore natural channels on your own	Likert Scale 0 to 4
SurveyOneData	BJ	WOMonitor / Willingness to monitor stream health on your own	Likert Scale 0 to 4
SurveyOneData	BK	WOWeeds / Willingness to remove weeds on your own	Likert Scale 0 to 4
SurveyOneData	BL	WOPests / Willingness to control pests on your own	Likert Scale 0 to 4
SurveyOneData	BM	WPollution / Willingness to report pollution of waterways / drains to Council	Likert Scale 0 to 4
SurveyOneData	BN	WReportWds / Willingness to report waterway weeds to Council	Likert Scale 0 to 4
SurveyOneData	BO	WReportPst / Willingness to report waterway pests to Council	Likert Scale 0 to 4
SurveyOneData	BP	WFishBarrier / Willingness to report potential fish passage barriers	Likert Scale 0 to 4

SurveyOneData	BQ	WSubmission / Willingness to make a submission to Council	Likert Scale 0 to 4
SurveyOneData	BR	WWorkshop / Willingness to attend a workshop on urban freshwater issues	Likert Scale 0 to 4
SurveyOneData	BS	WTeManaWai / Willingness to attend a workshop on Te Mana o te Wai	Likert Scale 0 to 4
Survey2Data_ReportPollution	A	ID / individual identity number	n/a
Survey2Data_ReportPollution	B	RegionGrp / Location by Region group	Categorical
Survey2Data_ReportPollution	C	Age	years
Survey2Data_ReportPollution	D	Gender	Categorical
Survey2Data_ReportPollution	E	Education / Education level	Categorical
Survey2Data_ReportPollution	F	EC_Overall / Environmental Concern Scale – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	G	CN_Overall / Connectedness to Nature Scale – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	H	ESelfID_Overall / Environmental Self-Identity - average	Likert Scale 1 to 7
Survey2Data_ReportPollution	I	NZID / NZ National Identity Scale	Likert Scale 1 to 7
Survey2Data_ReportPollution	J	ENID_Overall / National Environmental Identity Scale – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	K	BHP_Overall / Biological Heritage Protection Scale - average	Likert Scale 1 to 7
Survey2Data_ReportPollution	L	SoC_Overall / Sence of Community Scale – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	M	Spirit_Overall / Spirituality Scale - average	Likert Scale 0 to 10
Survey2Data_ReportPollution	N	RP_Current / Current participation	Likert Scale 1 to 7
Survey2Data_ReportPollution	O	RP_Future / Willingness to participate in future	Likert Scale 1 to 7
Survey2Data_ReportPollution	P	RP_Donate / Willingness to donate	Likert Scale 1 to 7
Survey2Data_ReportPollution	Q	RP_Cap1 / Not aware how stormwater pollution impacts local waterways	Likert Scale 1 to 7
Survey2Data_ReportPollution	R	RP_Cap2RS / Aware to which authority I should report pollution (reverse scored)	Likert Scale 1 to 7
Survey2Data_ReportPollution	S	RP_Cap3 / Unsure how to report pollution	Likert Scale 1 to 7
Survey2Data_ReportPollution	T	RP_Cap4 / Not sure what types of pollution I should report	Likert Scale 1 to 7
Survey2Data_ReportPollution	U	RP_POp1 / No way to easily report pollution to the local authorities	Likert Scale 1 to 7
Survey2Data_ReportPollution	V	RP_POp2 / Do not have access to the reporting tool	Likert Scale 1 to 7
Survey2Data_ReportPollution	W	RP_POp3 / Rarely spend time near waterways, so few opportunities to report	Likert Scale 1 to 7
Survey2Data_ReportPollution	X	RP_POp4 / Too busy to report pollution to the local authorities	Likert Scale 1 to 7
Survey2Data_ReportPollution	Y	RP_SOp1 / My local authorities do not encourage reporting	Likert Scale 1 to 7
Survey2Data_ReportPollution	Z	RP_SOp2RS / My local community encourages pollution reporting (reverse score)	Likert Scale 1 to 7
Survey2Data_ReportPollution	AA	RP_SOp3 / No one I know reports pollution to the local authorities	Likert Scale 1 to 7
Survey2Data_ReportPollution	AB	RP_SOp4 / People like me do not report pollution to the local authorities	Likert Scale 1 to 7
Survey2Data_ReportPollution	AC	RP_Mot1 / Not interested in reporting pollution	Likert Scale 1 to 7
Survey2Data_ReportPollution	AD	RP_Mot2RS / Stormwater pollution is a serious issue (reverse score)	Likert Scale 1 to 7
Survey2Data_ReportPollution	AE	RP_Mot3 / Not my responsibility to report pollution	Likert Scale 1 to 7
Survey2Data_ReportPollution	AF	RP_Mot4 / Even if I reported, the authorities would likely not act	Likert Scale 1 to 7
Survey2Data_ReportPollution	AG	NoCapacity / No capacity to report – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	AH	NoOpp / No opportunity to report – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	AI	NoSocialMot / No social motivation to report – average	Likert Scale 1 to 7
Survey2Data_ReportPollution	AJ	NoPersonalMot / No personal motivation to report - average	Likert Scale 1 to 7
Survey2Data_ReportPollution	AK	LPA5 / Profile group from Latent Profile Analysis	Categorical

Survey 2 - Motivating Urban Residents to Volunteer for Waterway Restoration

Tab/File Name	Field/Column # (e.g. A, B...XY)	Column Title/Description	Unit of measurement
Survey2Data_Volunteer	A	ID / individual identity number	n/a
Survey2Data_Volunteer	B	RegionGrp / Location by Region group	Categorical
Survey2Data_Volunteer	C	Age	years
Survey2Data_Volunteer	D	Gender	Categorical
Survey2Data_Volunteer	E	Education / Education level	Categorical
Survey2Data_Volunteer	F	HomeOwn / Home ownership	Categorical
Survey2Data_Volunteer	G	Household / Type of household members	Categorical
Survey2Data_Volunteer	H	SpecialCare / Presence of family members requiring special care	Categorical
Survey2Data_Volunteer	I	EC_Overall / Environmental Concern Scale – average	Likert Scale 1 to 7
Survey2Data_Volunteer	J	CN_Overall / Connectedness to Nature Scale – average	Likert Scale 1 to 7
Survey2Data_Volunteer	K	ESelfID_Overall / Environmental Self-Identity - average	Likert Scale 1 to 7
Survey2Data_Volunteer	L	NZID / NZ National Identity Scale	Likert Scale 1 to 7
Survey2Data_Volunteer	M	ENID_Overall / National Environmental Identity Scale – average	Likert Scale 1 to 7
Survey2Data_Volunteer	N	BHP_Overall / Biological Heritage Protection Scale - average	Likert Scale 1 to 7
Survey2Data_Volunteer	O	SoC_Overall / Sence of Community Scale – average	Likert Scale 1 to 7
Survey2Data_Volunteer	P	Spirit_Overall / Spirituality Scale - average	Likert Scale 0 to 10
Survey2Data_Volunteer	Q	V_Current / Current participation	Likert Scale 1 to 7
Survey2Data_Volunteer	R	V_Future / Willingness to participate in future	Likert Scale 1 to 7
Survey2Data_Volunteer	S	V_Donate / Willingness to donate	Likert Scale 1 to 7
Survey2Data_Volunteer	T	V_Cap1RS / Aware of benefits of restoration actions (reverse scored)	Likert Scale 1 to 7
Survey2Data_Volunteer	U	V_Cap2 / Do not know when local restoration group activities are occurring	Likert Scale 1 to 7
Survey2Data_Volunteer	V	V_Cap3 / Unable to join in with physical restoration activities	Likert Scale 1 to 7
Survey2Data_Volunteer	W	V_Cap4RS / Confident to join a local group (reverse scored)	Likert Scale 1 to 7
Survey2Data_Volunteer	X	V_POp1 / Do not live close to a waterway	Likert Scale 1 to 7
Survey2Data_Volunteer	Y	V_POp2 / Group activities occur at inconvenient times	Likert Scale 1 to 7
Survey2Data_Volunteer	Z	V_POp3 / Group restoration activities occur in areas that I cannot get to easily	Likert Scale 1 to 7
Survey2Data_Volunteer	AA	V_POp4 / Too busy to participate in group restoration activities	Likert Scale 1 to 7
Survey2Data_Volunteer	AB	V_SOp1 / No one I know participates in group activities	Likert Scale 1 to 7
Survey2Data_Volunteer	AC	V_SOp2RS / My community supports group restoration activities (reverse scored)	Likert Scale 1 to 7

Survey2Data_Volunteer	AD	V_SOp3 / The local Council does not support group restoration activities	Likert Scale 1 to 7
Survey2Data_Volunteer	AE	V_SOp4 / People like me do not participate in group restoration activities	Likert Scale 1 to 7
Survey2Data_Volunteer	AF	V_Mot1 / I am not interested in participating in groups	Likert Scale 1 to 7
Survey2Data_Volunteer	AG	V_Mot2 / Not general public's responsibility to restore freshwater habitats	Likert Scale 1 to 7
Survey2Data_Volunteer	AH	V_Mot3RS / Get satisfaction from working with others to restore (reverse scored)	Likert Scale 1 to 7
Survey2Data_Volunteer	AI	V_Mot4 / Reluctant to get involved due to past bad experiences	Likert Scale 1 to 7
Survey2Data_Volunteer	AJ	LPA4 / Profile group from Latent Profile Analysis	Categorical

Survey 2 - Installation of above-Ground Rainwater Tanks in Urban Households

Tab/File Name	Field/Column # (e.g. A, B...XY)	Column Title/Description	Unit of measurement
Survey2Data_InstallWatertank	A	ID / individual identity number	n/a
Survey2Data_InstallWatertank	B	RegionGrp / Location by Region group	Categorical
Survey2Data_InstallWatertank	C	Age	years
Survey2Data_InstallWatertank	D	Gender	Categorical
Survey2Data_InstallWatertank	E	Education / Education level	Categorical
Survey2Data_InstallWatertank	F	EC_Ego / Environmental Concern Scale – egoistic average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	G	EC_Bio / Environmental Concern Scale – biospheric average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	H	EC_Alt / Environmental Concern Scale – altruistic average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	I	EC_Overall / Environmental Concern Scale – average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	J	CN_Overall / Connectedness to Nature Scale – average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	K	NZID / NZ National Identity Scale	Likert Scale 1 to 7
Survey2Data_InstallWatertank	L	ENID_Overall / National Environmental Identity Scale – average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	M	SoC_Overall / Sence of Community Scale – average	Likert Scale 1 to 7
Survey2Data_InstallWatertank	N	IW_Current / Current participation	Likert Scale 0 to 1
Survey2Data_InstallWatertank	O	IW_Future / Willingness to participate in future	Likert Scale 1 to 7
Survey2Data_InstallWatertank	P	IW_Donate / Willingness to donate	Likert Scale 1 to 7
Survey2Data_InstallWatertank	Q	IW_Cap1 / Not aware of the environmental benefits of installing a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	R	IW_Cap2RS / Know how to install a rainwater tank (reverse score)	Likert Scale 1 to 7
Survey2Data_InstallWatertank	S	IW_Cap3 / Not sure how to safely use the water that is stored in a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	T	IW_Cap4 / Do not have the physical ability to install a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	U	IW_POp1 / My yard does not have enough space for a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	V	IW_POp2 / Installing a rainwater tank is too costly	Likert Scale 1 to 7
Survey2Data_InstallWatertank	W	IW_POp3 / Organising a plumber to install a rainwater tank is difficult	Likert Scale 1 to 7
Survey2Data_InstallWatertank	X	IW_POp4 / Council regulations do not make it easy to install a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	Y	IW_SOp1 / I do not know anyone who has installed a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	Z	IW_SOp2 / My local Council does not encourage installing a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AA	IW_SOp3RS / My local community encourages installing a tank (reverse score)	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AB	IW_SOp4 / People like me do not have rainwater tanks	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AC	IW_Mot1 / Installing a rainwater tank is too much effort	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AD	IW_Mot2 / Installing a rainwater tank seems like a waste of money	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AE	IW_Mot3 / There are no benefits to me for installing a rainwater tank	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AF	IW_Mot4 / Consuming water stored in a rainwater tank can be a health risk	Likert Scale 1 to 7
Survey2Data_InstallWatertank	AG	LPA3 / Profile group from Latent Profile Analysis	Categorical