Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 1631** ***Matrix:*** **Tissue**

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.16	B	0.13	DL	0.43	LOQ	ng/g	J	RI

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.26	B	0.13	DL	0.43	LOQ	ng/g	J	RI

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.32	B	0.13	DL	0.43	LOQ	ng/g	J	RI

Sample ID: **MAK106C** ***Collected:*** **1/13/2014 12:05:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.37	B	0.12	DL	0.41	LOQ	ng/g	J	RI

Sample ID: **MAK107C** ***Collected:*** **1/13/2014 12:40:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.19	B	0.12	DL	0.41	LOQ	ng/g	J	RI

Sample ID: **MAK108C** ***Collected:*** **1/13/2014 1:50:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.17	B	0.12	DL	0.40	LOQ	ng/g	J	RI

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.31	B	0.13	DL	0.44	LOQ	ng/g	J	RI

* denotes a non-reportable result

Project Name and Number: ARDL / Makau Military Reservation - ARD-MV1302

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 1632** ***Matrix:*** **Tissue**

Sample ID: **MAK101O** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.011	U,N	0.004	DL	0.011	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.006	B	0.004	DL	0.010	LOQ	mg/kg	J	Rl, Ms

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.010	B	0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK102O** ***Collected:*** **1/13/2014 10:30:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.012	U	0.004	DL	0.012	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.039		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL ARSENIC	0.005	B	0.004	DL	0.011	LOQ	mg/kg	J	Rl

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.055		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK103O** ***Collected:*** **1/13/2014 11:02:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.011	U	0.004	DL	0.011	LOQ	mg/kg	UJ	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 1632** ***Matrix:*** **Tissue**

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.013		0.004	DL	0.009	LOQ	mg/kg	J	Ms

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(III)	0.006	B	0.004	DL	0.009	LOQ	mg/kg	J	RI

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.007	B	0.004	DL	0.009	LOQ	mg/kg	J	RI, Ms

Sample ID: **MAK104O** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.012	U	0.004	DL	0.012	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK104O** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL ARSENIC	0.010	B	0.004	DL	0.012	LOQ	mg/kg	J	RI

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.006	B	0.004	DL	0.009	LOQ	mg/kg	J	RI, Ms

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.006	B	0.004	DL	0.009	LOQ	mg/kg	J	RI, Ms

Sample ID: **MAK105O** ***Collected:*** **1/13/2014 11:58:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.011	U	0.004	DL	0.011	LOQ	mg/kg	UJ	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 1632** ***Matrix:*** **Tissue**

Sample ID: **MAK105O** ***Collected:*** **1/13/2014 11:58:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL ARSENIC	0.008	B	0.004	DL	0.011	LOQ	mg/kg	J	RI

Sample ID: **MAK106C** ***Collected:*** **1/13/2014 12:05:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.071		0.004	DL	0.009	LOQ	mg/kg	J	Ms

Sample ID: **MAK106C** ***Collected:*** **1/13/2014 12:05:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.052		0.004	DL	0.009	LOQ	mg/kg	J	Ms

Sample ID: **MAK106L** ***Collected:*** **1/14/2014 8:45:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.032	B	0.014	DL	0.042	LOQ	mg/kg	J	RI

Sample ID: **MAK106O** ***Collected:*** **1/13/2014 12:20:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL ARSENIC	0.006	B	0.004	DL	0.011	LOQ	mg/kg	J	RI

Sample ID: **MAK106O** ***Collected:*** **1/13/2014 12:20:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.011	U	0.004	DL	0.011	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK107C** ***Collected:*** **1/13/2014 12:40:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.025		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK107C** ***Collected:*** **1/13/2014 12:40:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.015		0.004	DL	0.010	LOQ	mg/kg	J	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 1632** ***Matrix:*** **Tissue**

Sample ID: **MAK107O** ***Collected:*** **1/13/2014 1:05:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.011	U	0.004	DL	0.011	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK107O** ***Collected:*** **1/13/2014 1:05:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL ARSENIC	0.007	B	0.004	DL	0.011	LOQ	mg/kg	J	RI

Sample ID: **MAK108C** ***Collected:*** **1/13/2014 1:50:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.037		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK108C** ***Collected:*** **1/13/2014 1:50:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.027		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK108O** ***Collected:*** **1/13/2014 2:20:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MONOMETHYL ARSENIC	0.010	U	0.003	DL	0.010	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(V)	0.018		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INORGANIC ARSENIC	0.025		0.004	DL	0.010	LOQ	mg/kg	J	Ms

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Arsenic(III)	0.007	B	0.004	DL	0.010	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Project Name and Number: ARDL / Makau Military Reservation - ARD-MV1302

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 1632** ***Matrix:*** **Tissue**

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIMETHYL ARSENIC	0.006	B	0.004	DL	0.012	LOQ	mg/kg	J	Rl

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK101L** ***Collected:*** **1/13/2014 9:10:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	36.9		0.075	DL	0.749	LOQ	mg/kg	J	Ld

Sample ID: **MAK101L** ***Collected:*** **1/13/2014 9:10:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl
COBALT	0.05	B	0.02	DL	0.15	LOQ	mg/kg	J	Rl
MANGANESE	1.25		0.01	DL	0.04	LOQ	mg/kg	J	Ms
THALLIUM	0.004	B	0.002	DL	0.007	LOQ	mg/kg	J	Rl

Sample ID: **MAK101L** ***Collected:*** **1/13/2014 9:10:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.17	J	0.013	DL	0.037	LOQ	mg/kg	J	Lcs

Sample ID: **MAK101L** ***Collected:*** **1/13/2014 9:10:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	25.0		0.13	DL	0.75	LOQ	mg/kg	J	Ms

Sample ID: **MAK101O** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	30.1	J	0.013	DL	0.039	LOQ	mg/kg	J	Lcs

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK101O** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.009	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl

Sample ID: **MAK101O** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.03	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.68	B	0.14	DL	0.80	LOQ	mg/kg	J	Rl

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.06	B	0.03	DL	0.16	LOQ	mg/kg	J	Rl
ZINC	0.81	B	0.20	DL	1.00	LOQ	mg/kg	U	Mb

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.046	B,M	0.018	DL	0.120	LOQ	mg/kg	J	Rl
VANADIUM	0.024	B	0.014	DL	0.120	LOQ	mg/kg	J	Rl

Sample ID: **MAK102C** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.454	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

Sample ID: **MAK102L** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.29	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK102L** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	367		0.14	DL	0.81	LOQ	mg/kg	J	Ms

Sample ID: **MAK102L** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	822		0.081	DL	0.808	LOQ	mg/kg	J	Ld

Sample ID: **MAK102L** ***Collected:*** **1/13/2014 10:02:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl
MANGANESE	12.5		0.01	DL	0.04	LOQ	mg/kg	J	Ms
THALLIUM	0.007	B	0.002	DL	0.008	LOQ	mg/kg	J	Rl

Sample ID: **MAK102O** ***Collected:*** **1/13/2014 10:30:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	30.7	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

Sample ID: **MAK102O** ***Collected:*** **1/13/2014 10:30:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.53	B	0.14	DL	0.79	LOQ	mg/kg	J	Rl
LEAD	0.02	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	0.101	B	0.013	DL	0.115	LOQ	mg/kg	J	Rl

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.590	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

* denotes a non-reportable result

Project Name and Number: ARDL / Makau Military Reservation - ARD-MV1302

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK103C** ***Collected:*** **1/13/2014 10:22:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.05	B	0.03	DL	0.15	LOQ	mg/kg	J	Rl
COBALT	0.03	B	0.02	DL	0.15	LOQ	mg/kg	J	Rl
ZINC	1.07		0.19	DL	0.96	LOQ	mg/kg	U	Mb

Sample ID: **MAK103O** ***Collected:*** **1/13/2014 11:02:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	32.3	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

Sample ID: **MAK103O** ***Collected:*** **1/13/2014 11:02:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.007	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.462	J	0.014	DL	0.039	LOQ	mg/kg	J	Lcs

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.095	B	0.018	DL	0.118	LOQ	mg/kg	J	Rl
VANADIUM	0.038	B	0.014	DL	0.118	LOQ	mg/kg	J	Rl

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.03	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK104C** ***Collected:*** **1/13/2014 11:00:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.04	B	0.03	DL	0.16	LOQ	mg/kg	J	Rl
ZINC	0.96	B	0.20	DL	0.98	LOQ	mg/kg	U	Mb

* denotes a non-reportable result

Project Name and Number: ARDL / Makau Military Reservation - ARD-MV1302

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK104O** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	27.5	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

Sample ID: **MAK104O** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.008	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl

Sample ID: **MAK104O** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.53	B	0.13	DL	0.76	LOQ	mg/kg	J	Rl

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	4.58	M	0.080	DL	0.805	LOQ	mg/kg	J	Ld
VANADIUM	0.037	B	0.014	DL	0.121	LOQ	mg/kg	J	Rl

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.340	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.05	B	0.03	DL	0.16	LOQ	mg/kg	J	Rl
COBALT	0.03	B	0.02	DL	0.16	LOQ	mg/kg	J	Rl
ZINC	0.96	B	0.20	DL	1.01	LOQ	mg/kg	U	Mb

Sample ID: **MAK105C** ***Collected:*** **1/13/2014 11:30:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	1.40		0.14	DL	0.80	LOQ	mg/kg	J	Ld

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK105L** ***Collected:*** **1/13/2014 3:20:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.01	J	0.014	DL	0.039	LOQ	mg/kg	J	Lcs

Sample ID: **MAK105L** ***Collected:*** **1/13/2014 3:20:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.009	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl
COBALT	0.11	B	0.02	DL	0.16	LOQ	mg/kg	J	Rl
MANGANESE	2.14		0.01	DL	0.04	LOQ	mg/kg	J	Ms
THALLIUM	0.003	B	0.002	DL	0.008	LOQ	mg/kg	J	Rl
ZINC	1.27		0.20	DL	0.98	LOQ	mg/kg	U	Mb

Sample ID: **MAK105L** ***Collected:*** **1/13/2014 3:20:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	104		0.079	DL	0.786	LOQ	mg/kg	J	Ld

Sample ID: **MAK105L** ***Collected:*** **1/13/2014 3:20:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26.3		0.14	DL	0.79	LOQ	mg/kg	J	Ms

Sample ID: **MAK105O** ***Collected:*** **1/13/2014 11:58:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.77	B	0.14	DL	0.78	LOQ	mg/kg	J	Rl
LEAD	0.03	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK105O** ***Collected:*** **1/13/2014 11:58:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	24.2	J	0.014	DL	0.039	LOQ	mg/kg	J	Lcs

Sample ID: **MAK105O** ***Collected:*** **1/13/2014 11:58:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.008	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Project Name and Number: ARDL / Makau Military Reservation - ARD-MV1302

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK105O** ***Collected:*** **1/13/2014 11:58:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.019	B	0.018	DL	0.117	LOQ	mg/kg	J	Rl

Sample ID: **MAK106C** ***Collected:*** **1/13/2014 12:05:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.750	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

Sample ID: **MAK106C** ***Collected:*** **1/13/2014 12:05:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	0.099	B	0.013	DL	0.115	LOQ	mg/kg	J	Rl

Sample ID: **MAK106C** ***Collected:*** **1/13/2014 12:05:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.10	B	0.03	DL	0.15	LOQ	mg/kg	J	Rl
COBALT	0.04	B	0.02	DL	0.15	LOQ	mg/kg	J	Rl
ZINC	1.47		0.19	DL	0.96	LOQ	mg/kg	U	Mb

Sample ID: **MAK106L** ***Collected:*** **1/14/2014 8:45:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.82	J	0.013	DL	0.037	LOQ	mg/kg	J	Lcs

Sample ID: **MAK106L** ***Collected:*** **1/14/2014 8:45:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl
CADMIUM	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl
COBALT	0.08	B	0.02	DL	0.15	LOQ	mg/kg	J	Rl
MANGANESE	1.62		0.01	DL	0.04	LOQ	mg/kg	J	Ms
THALLIUM	0.004	B	0.002	DL	0.007	LOQ	mg/kg	J	Rl
ZINC	1.26		0.19	DL	0.93	LOQ	mg/kg	U	Mb

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK106L** ***Collected:*** **1/14/2014 8:45:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	65.5		0.075	DL	0.748	LOQ	mg/kg	J	Ld

Sample ID: **MAK106L** ***Collected:*** **1/14/2014 8:45:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26.2		0.13	DL	0.75	LOQ	mg/kg	J	Ms

Sample ID: **MAK106O** ***Collected:*** **1/13/2014 12:20:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.55	B	0.13	DL	0.77	LOQ	mg/kg	J	Rl
LEAD	0.02	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK106O** ***Collected:*** **1/13/2014 12:20:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	24.6	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

Sample ID: **MAK107C** ***Collected:*** **1/13/2014 12:40:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.540	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

Sample ID: **MAK107C** ***Collected:*** **1/13/2014 12:40:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.11	B	0.03	DL	0.16	LOQ	mg/kg	J	Rl
COBALT	0.04	B	0.02	DL	0.16	LOQ	mg/kg	J	Rl

Sample ID: **MAK107C** ***Collected:*** **1/13/2014 12:40:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	0.075	B	0.014	DL	0.121	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK107O** ***Collected:*** **1/13/2014 1:05:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.55	B	0.13	DL	0.76	LOQ	mg/kg	J	RI
LEAD	0.02	B	0.004	DL	0.04	LOQ	mg/kg	J	RI

Sample ID: **MAK107O** ***Collected:*** **1/13/2014 1:05:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	31.3	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

Sample ID: **MAK107O** ***Collected:*** **1/13/2014 1:05:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.027	B	0.017	DL	0.114	LOQ	mg/kg	J	RI

Sample ID: **MAK107O** ***Collected:*** **1/13/2014 1:05:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	RI

Sample ID: **MAK108, 109, 110, 113L** ***Collected:*** **1/14/2014 12:00:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.50	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

Sample ID: **MAK108, 109, 110, 113L** ***Collected:*** **1/14/2014 12:00:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	411		0.14	DL	0.80	LOQ	mg/kg	J	Ms

Sample ID: **MAK108, 109, 110, 113L** ***Collected:*** **1/14/2014 12:00:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	11.7		0.01	DL	0.04	LOQ	mg/kg	J	Ms

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK108, 109, 110, 113L** ***Collected:*** **1/14/2014 12:00:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	821		0.080	DL	0.802	LOQ	mg/kg	J	Ld

Sample ID: **MAK108C** ***Collected:*** **1/13/2014 1:50:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	0.067	B	0.013	DL	0.114	LOQ	mg/kg	J	Rl

Sample ID: **MAK108C** ***Collected:*** **1/13/2014 1:50:00** ***Analysis Type:*** **Initial4** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.05	B	0.03	DL	0.15	LOQ	mg/kg	J	Rl
ZINC	0.93	B	0.19	DL	0.95	LOQ	mg/kg	U	Mb

Sample ID: **MAK108C** ***Collected:*** **1/13/2014 1:50:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.432	J	0.013	DL	0.038	LOQ	mg/kg	J	Lcs

Sample ID: **MAK108O** ***Collected:*** **1/13/2014 2:20:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	29.0	J	0.014	DL	0.039	LOQ	mg/kg	J	Lcs

Sample ID: **MAK108O** ***Collected:*** **1/13/2014 2:20:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.03	B	0.004	DL	0.04	LOQ	mg/kg	J	Rl

Sample ID: **MAK108O** ***Collected:*** **1/13/2014 2:20:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	0.022	B	0.018	DL	0.117	LOQ	mg/kg	J	Rl

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	0.062	B	0.014	DL	0.121	LOQ	mg/kg	J	Rl

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	0.395	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs

Sample ID: **MAK110C** ***Collected:*** **1/14/2014 9:55:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	0.08	B	0.03	DL	0.16	LOQ	mg/kg	J	Rl
COBALT	0.03	B	0.02	DL	0.16	LOQ	mg/kg	J	Rl
ZINC	0.86	B	0.20	DL	1.01	LOQ	mg/kg	U	Mb

Sample ID: **MAK111L** ***Collected:*** **1/14/2014 12:05:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	Rl
MANGANESE	11.1		0.01	DL	0.04	LOQ	mg/kg	J	Ms
THALLIUM	0.004	B	0.002	DL	0.008	LOQ	mg/kg	J	Rl

Sample ID: **MAK111L** ***Collected:*** **1/14/2014 12:05:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	666		0.081	DL	0.815	LOQ	mg/kg	J	Ld

Sample ID: **MAK111L** ***Collected:*** **1/14/2014 12:05:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	299		0.14	DL	0.81	LOQ	mg/kg	J	Ms

Sample ID: **MAK111L** ***Collected:*** **1/14/2014 12:05:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.17	J	0.014	DL	0.041	LOQ	mg/kg	J	Lcs

* denotes a non-reportable result

Project Name and Number: ARDL / Makau Military Reservation - ARD-MV1302

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK112L** ***Collected:*** **1/14/2014 12:50:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	957		0.080	DL	0.805	LOQ	mg/kg	J	Ld

Sample ID: **MAK112L** ***Collected:*** **1/14/2014 12:50:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	438		0.14	DL	0.80	LOQ	mg/kg	J	Ms

Sample ID: **MAK112L** ***Collected:*** **1/14/2014 12:50:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	2.52	J	0.014	DL	0.040	LOQ	mg/kg	J	Lcs
SELENIUM	0.063	B	0.060	DL	0.151	LOQ	mg/kg	J	Rl

Sample ID: **MAK112L** ***Collected:*** **1/14/2014 12:50:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	0.04	U	0.01	DL	0.04	LOQ	mg/kg	UJ	Ms

Sample ID: **MAK115L** ***Collected:*** **1/14/2014 2:00:00** ***Analysis Type:*** **Initial1** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	44.1	M	0.077	DL	0.774	LOQ	mg/kg	J	Ld

Sample ID: **MAK115L** ***Collected:*** **1/14/2014 2:00:00** ***Analysis Type:*** **Initial2** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26.5	M	0.14	DL	0.77	LOQ	mg/kg	J	Ms

Sample ID: **MAK115L** ***Collected:*** **1/14/2014 2:00:00** ***Analysis Type:*** **Initial3** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	1.75	J	0.014	DL	0.039	LOQ	mg/kg	J	Lcs

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Method Category: **METALS**

Method: **EPA 200.8** ***Matrix:*** **Tissue**

Sample ID: **MAK115L** ***Collected:*** **1/14/2014 2:00:00** ***Analysis Type:*** **Initial5** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.01	B	0.007	DL	0.02	LOQ	mg/kg	J	RI
COBALT	0.04	B	0.02	DL	0.15	LOQ	mg/kg	J	RI
MANGANESE	1.10		0.01	DL	0.04	LOQ	mg/kg	J	Ms
THALLIUM	0.004	B	0.002	DL	0.008	LOQ	mg/kg	J	RI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: 1408020 **Laboratory: BRL**

EDD Filename: 1408020 SEDD EDD rev1 **eQAPP Name: GSIPacific_MakuaMilitaryRes_052014**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Ld	Laboratory Duplicate Precision
Mb	Method Blank Contamination
Ms	Matrix Spike Lower Estimation
Ms	Matrix Spike Upper Estimation
Rl	Reporting Limit Trace Value

* denotes a non-reportable result