Deloitte & Touche

Anvil Range Mining Complex 2007 Waste Rock and Seepage Monitoring Report

2007/08 Task 17

DRAFT

Prepared for:

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On behalf of
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Executive Summary

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<u>Objectives and Primary Findings:</u>

This report summarizes the waste rock and seepage monitoring results from the 2007 monitoring program and compares the current year's results with results from previous monitoring.

Water quality at toe seepage and select routine monitoring stations indicates that water quality in drainage from the Faro and Vangorda waste rock dumps appears to have stabilized year-over-year, with considerable seasonal variation at several monitoring stations.

Water quality of drainage from the Grum Dump toe seeps also appears to be stable, with dissolved zinc concentrations typically in the range of 1.7 to 5.2 mg/L over the past several years, and isolated samples having dissolved zinc concentrations up to 60 mg/L. However, downgradient monitoring at routine monitoring station V15 demonstrated a sustained increase in zinc concentrations over the 2007 monitoring period to nearly 1.2 mg/L, and it is expected that this increase will continue in 2008.

<u>Future Work Recommendations:</u>

It is recommended that waste rock and seepage monitoring be continued at the same level as carried out since 2005.

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1 Introduction

Waste rock and pit seepage surveys, and monitoring of waste rock thermal conditions and pore gas oxygen concentrations were continued in 2007. In addition, routine monitoring of selected waste rock and pit seepage stations was carried out by site environmental staff as a requirement of the water licence. This report presents results of the 2007 seep surveys, a review of the 2007 and historical routine seepage monitoring data, and results of the thermal and oxygen monitoring.

This report has been prepared as part of the ongoing technical evaluation for the closure planning of the Anvil Range Mining Complex.

2 Methods

2.1 Waste Rock Seepage Surveys

Sample locations were established in June 2002 by walking the toes of all waste rock dumps where the rock rests on original ground, and looking for any flowing seeps that emerged from these areas. Additional seeps were located by slowly driving along accessible roads and ramps in the Faro Pit complex that were below waste rock dumps or ore stockpiles. Most of the seeps were flowing, or were inferred to have been recently flowing based on observations of moisture along flow paths, or on ponded water surfaces at the elevation of pond spill points.

Subsequent seep surveys at each of the waste rock dumps were carried out in September 2002, and in both spring and fall of 2003 and 2004. Stations established in June 2002 were revisited and sampled as appropriate. Some seeps were found to flow intermittently, and new intermittent seeps were located during the follow-up surveys. At the end of 2004, there were approximately 80 seep locations that had been sampled at least once during the 2002-2004 waste rock seepage monitoring program (SRK 2006a).

As part of planning for 2005 monitoring, the waste rock seepage working group discussed the value of continuing to monitor waste rock seepage at the established stations. On the basis of these discussions, SRK carried out a review of previously-sampled seepage stations to assess which stations should continue to be monitored on a twice-yearly basis. Summaries of the rationale for maintaining or eliminating each station from the monitoring program were compiled in a draft memorandum that was circulated and subsequently revised to reflect feedback from the working group (see Appendix A in SRK 2006b). Sites identified for continued monitoring were visited in May and September of 2005 to 2007, and samples were collected as flow conditions permitted.

Several sites where waste rock seepage stations coincided with water licence sampling stations were identified for elimination pending review of sampling practices employed by site staff. These sites were reviewed at the beginning of May during the 2005, 2006 and 2007 field visits, but it was found that field filtration of dissolved metal samples was not being carried out as part of water licence sampling. As the protocol for the waste rock seepage survey includes field filtration of dissolved metal samples, it was decided that the water licence stations would continue to be sampled on an interim basis as part of the waste rock seepage monitoring program.

The review of monitoring stations also recommended allowance for a limited number of supplementary samples, to be collected at the investigator's discretion, to characterize intermittent surface flows that daylight only under ideal flow conditions.

In past years, laboratory analysis of seepage samples has been carried out by ICP-OES. During planning meetings for 2007 monitoring, a need was identified to obtain lower detection limits for several trace parameters. It was decided by the various technical working groups that the added cost was justified, and all 2007 samples were analyzed using a combination of ICP-OES and ICP-MS.

Samples were collected for analyses of routine parameters (pH, conductivity, acidity, alkalinity, chloride and sulphate), and dissolved metals (dissolved metals by ICP-MS/OES). The samples were filtered and preserved in the field according to standard methods for collection of environmental samples. Field pH, conductivity, redox, and temperature measurements were taken at each station using a WTW meter. Flow estimates were made using the bucket and stopwatch method, by estimating the velocity and cross sectional area of the seep, or by visual estimation.

The sampling locations were marked for later reference with flagging tape and were surveyed using a hand-held GPS. The locations are shown in Figures 1 and 2. Photographs were taken to document the general appearance of the station, as well as any precipitates along the flow paths.

Duplicates and field blanks were collected as a check on the quality of the field methods and laboratory results.

2.2 Pit Seepage Surveys

Monitoring of seepage and wall rock runoff in the Faro, Grum, and Vangorda pits was carried out in 2003 and 2004 as part of studies relating to future pit lake water quality and treatment requirements. Beginning in 2005, seepage monitoring has also been carried out in the pits, as recommended by the technical working group. It was felt that permanent monitoring stations should be established to allow pit seepage water quality trends to be tracked over time.

Pit seepage surveys were carried out in Faro and Grum pits in May 2007 and in all three pits (Faro, Grum and Vangorda) in September 2007. Pit seep locations are shown in Figures 3 through 5.

Pit seep samples were collected and analysed in the manner described for waste rock seeps in Section 2.1.

2.3 Routine Monitoring

Waste rock seep surveys have been completed both by the operator, as prescribed in water licences, and by various regulatory authorities since approximately 1986 at the routine sample locations shown in Figures 1 and 2. Deloitte & Touche has continued to collect seep samples on a regular basis as part of water licence routine monitoring programs.

The historical water quality database was transferred to a Microsoft Access platform, to allow distribution of results to other users. The development of the Access database was coordinated by Gartner Lee Limited (GLL), who report the compiled results in the annual monitoring reports (e.g. GLL 2007) and who continue to maintain the database. Quality assurance and validation of reported historical monitoring results is undertaken as issues are raised.

2.4 Temperature and Oxygen Monitoring of Waste Rock

Waste rock temperature and oxygen monitoring has been carried out intermittently beginning in February 2003 at seven instrumented drillholes on the Faro, Grum, and Vangorda waste rock dumps (SRK, 2004a). In each drillhole, a thermistor string was installed that measures temperature at discrete locations down hole. In addition, each hole has several plastic tubes installed that permit pore gas to be extracted from discrete locations. The installation of these monitoring facilities is described in detail in SRK 2004a.

In the past, erratic results from some individual monitoring ports have raised the question of whether the ports were blocked or pinched. Prior to sampling, a hand-operated vacuum pump was used to test whether pore gas was able to move freely through each monitoring tube. Those tubes which allowed a vacuum to develop were inferred as being blocked in some fashion, and the previous results from the blocked ports are considered questionable.

Pore gas oxygen content was measured directly using a Servomex Oxygen Analyser. This instrument was calibrated on a daily basis using ambient air (20.9% oxygen) and pure nitrogen gas (0% oxygen). The instrument was connected to each monitoring tube by means of silicone tubing, and pore gas was drawn through the instrument by means of an integrated pump. The oxygen analyser produced a direct real-time readout of oxygen content which was then manually recorded.

Temperature measurements were collected by connecting an Omega thermistor reader to a switch box at the terminal end of each installed RST Instruments thermistor string. Temperature at individual monitoring points was collected by selecting the appropriate channel on the switch box. The Omega thermistor reader measured resistance across each monitoring point and converted this measured resistance to temperature. The calculated temperature was then displayed on a digital readout, and was manually recorded.

In the 2007/08 field program, monitoring of pore gas oxygen content and waste rock temperature was carried out in May and September 2007, and in March 2008.

3 Results

3.1 Waste Rock Seepage Surveys

The results of the 2002 through 2007 waste rock seepage surveys are provided in Appendix A. Select parameters (ranges of pH, conductivity, flow, sulphate and zinc concentrations for the period of record) are presented in Figures 1 and 2.

3.2 Pit Seepage Surveys

Locations of the pit seepage monitoring stations are shown in Figures 3 to 5. Results of the 2003 to 2007 pit seepage surveys are included in Appendix B. The purpose of these surveys has been to provide inputs for updates to water quality predictions (such as those presented in SRK 2004b) and to monitor changes in pit seepage water quality over time. Pit seep locations are less consistent than waste rock seep locations, necessitating the establishment of several unique stations to sample available flows. However, there are some stations that have been sampled over several monitoring rounds at locations where seepage has been consistently available. In some areas, for comparison of year-over-year seepage chemistry results, it is necessary to group stations where seepage water interacts with similar pit wall rock types.

3.3 Routine Monitoring

Locations of the routine seepage monitoring stations are shown in Figures 1 and 2. Analytical data are stored on the Anvil Range water quality database and are not reproduced here. The results of the historical seepage monitoring are provided in Figures 6 through 17. The time series shown in these figures provide a graphical summary of the data that allows trends to be easily identified.

3.4 Temperature and Oxygen Monitoring of Waste Rock

The results of temperature and oxygen monitoring are provided in Appendix C. Waste rock temperatures recorded in 2007/8 were generally within the range of those recorded previously. Measured 2007/8 pore gas oxygen concentrations were also similar to those previously measured.

Vacuum testing of all individual sampling tubes indicated that several monitoring ports were blocked. Many of the blocked ports had a paired port at the same elevation that remained functional at the time of testing; however, three monitoring elevations (1.4, 5.6 and 10 m below surface) at installation 10M3 (Grum Dump) had pairs of monitoring tubes blocked at each elevation.

Installation 30M4 (Vangorda Dump) was found to have blockages in both monitoring ports at 1.4 m depth, however ports sampling both higher and lower elevations appeared to be functioning properly.

Installation 30M1 (Faro Dump) was found to have a blockage in the 30 m monitoring port. This port was not installed in duplicate and may not provide any further data. However, ports sampling both higher and lower elevations appeared to be functioning properly.

4 Discussion

4.1 2002 to 2007 Waste Rock Seepage Surveys

The 2007 freshet occurred in late May, which is typical timing based on monitoring since 2002. The spring waste rock survey took place during the same week as it did in 2006. Judging from the small remnant snow drifts on the rock dumps, and the lack of other snow cover, the waste rock runoff likely peaked at the end of the week prior to the waste rock seepage survey.

Fall runoff conditions appeared to be average to slightly dry, based on the number of flowing seeps and the size of previously observed flows. There was a significant rainfall event during the first day of the fall sampling period. This allowed a number of stations that flow only shortly after precipitation events to be sampled.

4.1.1 Faro Waste Rock Dumps

No new seeps were identified at Faro during the 2007 surveys. The previously-developed grouping of seeps into water types continues to be a useful tool for summarizing the monitoring results.

Water Types

Seepage from the Faro Waste Rock Dumps was divided into three distinct types on the basis of pH and zinc concentrations (Table 1):

- Type 1 seeps typically had pHs greater than 6.5, and zinc concentrations less than 6 mg/L. Other trace metals (e.g. aluminum, iron, manganese) were low or below detection limits.
- Type 2 seeps had pHs typically between 6 and 7, and zinc concentrations from 4 to 595 mg/L. Cadmium, cobalt, iron, manganese, and nickel were also elevated in several of the samples.
- Type 3 seeps had pHs of less than 6, and zinc concentrations typically greater than 10 mg/L and as high as 21,100 mg/L. Aluminum, cadmium, cobalt, copper, iron, manganese, and nickel concentrations were also high in several of these samples. Samples with zinc concentrations greater than 900 mg/L are sourced from oxide fines, ore stockpiles, or the immediate area around the mill.

The summary of Faro water type characteristics in Table 1 was prepared from a modified data set. Where values were reported as less than detection, the detection limit was inserted as the analytical value for the purposes of the statistical calculations. Method detection limits are listed in Table 1; these limits were taken from the non-detect results of blank submissions. Any non-detect result that specified a detection limit more than 10X the minimum method detection limit was excluded from the statistical calculations. This arose in cases where samples had high ionic strength. The variation in the number of samples used in the statistical summary is a reflection of this exclusion.

Table 1: Characteristics of Faro Water Types

Parameter	Detection Limit	Type 1					Type 2					Type 3				
		Average	Median	Min	Max	N	Average	Median	Min	Max	N	Average	Median	Min	Max	N
Field pH (s.u.)	0.01	7.11	7.10	6.02	8.14	63	6.62	6.62	5.72	7.51	90	3.89	3.50	0.9	7.59	61
Acidity pH 8.3	1	10	8	1	30.7	63	210	74	14	2160	90	5478	352	27	49500	62
Alkalinity Total	1	139	147	19	322	63	164	108	2	445	90	14	2	0.5	310	62
Chloride	0.2	1.0	0.8	0.28	2.7	54	5.5	2.0	0.5	25	61	35.4	0.7	0.46	1050	41
Sulphate	0.5	445	382	3.1	2470	63	2607	2280	334	8180	90	7353	1935	69	59800	62
Calcium	0.05	97	95	7.5	263	63	355	388	49	675	90	218	214	6.5	508	62
Magnesium	0.1	77	69	1.09	378	63	375	269	37	1750	90	326	207	3.8	3210	62
Potassium	0.02	6.0	4.0	1.1	24	43	9.7	9.1	2.8	28.8	86	7.6	6.8	1.17	19.8	34
Sodium	0.01	21	7.0	1.5	150	47	26	19	3	122	89	14	5.4	1.62	114	46
Aluminum	0.001	0.014	0.0048	0.0020	0.070	8	0.53	0.24	0.0020	3.6	23	79	9.2	0.23	986	57
Cadmium	0.00001	0.0026	0.0010	0.00030	0.010	9	0.070	0.041	0.0073	0.62	77	4.2	0.16	0.018	47	60
Cobalt	0.0001	0.0045	0.0022	0.0001	0.016	11	0.22	0.065	0.010	1.1	86	2.0	0.28	0.030	20	61
Copper	0.0002	0.0077	0.0063	0.0016	0.021	11	0.12	0.038	0.0069	0.78	67	44	1.5	0.030	559	61
Iron	0.01	0.033	0.030	0.01	0.10	63	17	2.47	0.010	135	89	897	39	0.030	15100	62
Lead	0.0002	0.018	0.0003	0.00017	0.15	9	0.054	0.056	0.00020	0.23	25	0.88	0.41	0.069	4.92	40
Manganese	0.005	0.097	0.010	0.00015	0.52	63	20	4.6	0.037	85	90	110	9.1	0.16	2360	62
Nickel	0.0002	0.049	0.055	0.00077	0.121	19	0.38	0.21	0.050	1.8	87	1.9	0.36	0.050	15	60
Zinc	0.005	1.8	1.4	0.010	14	63	112	42	3.9	595	90	2069	104	2.2	21100	62

Note: Units in mg/L except for acidity/ alkalinity in mg CaCO3 eq/L

Note 2: Detection limits were used for statistical purposes when values were less than detection.
Where detection limits were greater than 10x the minimum detection limit due to high ionic strength, non-detect results were excluded from statistical calculations.

Table 2 lists the seepage stations by each of the three water types. The results boxes in Figure 1 also indicate these groupings by colour.

The Type 1 seeps included samples from below the Upper Parking Lot dump (FD02), along the toe of the Northeast Dump (FD05, 06, and 07), a seep entering the pit below the Northeast Dumps FD 26), the Zone II East Dump (FD50), the Ramp Zone Dump (FD14), and the Upper Northwest Dump (FD16 and 18). According to the inventory of rock types presented in the 1996 ICAP report (RGI, 1996), these dumps generally contained relatively low proportions of sulphide waste rock, and higher proportions of calc-silicate or intrusive rock compared to other parts of the Faro Dump. The Intermediate Dump contains higher proportions of sulphide material. The seepage chemistry reflects some buffering by reactive carbonate minerals, which help to maintain neutral pH conditions. The sample collected from station FD26 in May 2007 was classified as a Type 2 seep due to an elevated zinc concentration of 20 mg/L; however, during the September 2007 sampling period the zinc concentration was much lower, nearly 2 mg/L, and so this seep was reclassified as a Type 1 seep.

The Type 2 seeps have included samples from several different areas, including ore and low grade ore stockpiles (FD01, 09, 10, 12, 31 and 38), the Main Dump West (FD30), the Main Dump East (FD08), the Intermediate Dump (FD44 , 48 and 49), the Lower Northwest Dump (FD19), seeps entering the pit below the Northeast Dumps (FD21, 22, 23, 24, 26 and 27) the Ramp Zone Dump (FD14), seeps in the mill area (FD32 and 35), and seeps from below the Faro Valley Dumps (FD40). A common element of all these areas is the presence of sulphides or oxidized schist. Although the pH is typically in the pH 6 to 7 range, it is clear that this drainage is strongly influenced by oxidation of sulphide minerals. However, many of these seeps contain high levels of calcium and magnesium, suggesting that there are still some carbonates present in the source materials. Samples from below the Main Dump West (FD12, Zn = 331 mg/L, FD31, Zn = 329 mg/L) contained the highest zinc concentrations of Type 2 seeps sampled in 2007, and were likely influenced in part by ore stockpiles upgradient of this location. Water quality trends at FD31 are included in Section 4.2.1 under X23 (equivalent station). Type 2 samples outside of the influence of the ore stockpiles and mill area had zinc concentrations below 90 mg/L in 2007.

The Type 3 seeps have included samples from the Oxide Fines Stockpile (FD04 and 46), low grade ore stockpiles (FD12 and 38), the Medium Grade Stockpile (FD37), the mill area (FD33, 34 and 35), the West Main Dump (FD30 and 36), the Intermediate Dump (FD13, 47 and 49), the Faro Creek Diversion dyke (FD20), and, on occasion, seeps entering the pit below the Faro Valley Dump (FD40),or the Northeast Dumps (FD21, 22, 23, 24 and 27). Portions of the waste rock or pit benches in all of the above areas contained sulphides or oxidized schist. The seepage quality indicates very little if any neutralizing minerals are available to control the pH and metal concentrations in these seeps. Samples from the Oxide Fines Stockpile (FD04, Zn = 1230 to 10,900 mg/L), the Medium Grade Stockpile (FD37, Zn = 6130 to 21,100 mg/L), and the mill area (FD33, Zn = 1110 to 6770 mg/L) had the highest zinc concentrations. However, zinc concentrations in the remaining acidic seeps ranged from 2.2 to 877 mg/L (overall median of 53 mg/L) indicating that seeps with high zinc concentrations occur in association with the sulphide waste rock cells and other sulphidic waste rock.

Table 2: Seepage Stations Classified By Water Type

Type 1		Type 2		Type 3	
(pH typically >6.5, Zn <6 mg/L)		(pH typically between 6 and 7, Zn concentrations ranging from 4 to 595 mg/L)		(pH <6, Zn typically >10mg/L)	
ID	**Location**	**ID**	**Location**	**ID**	**Location**
SRK-FD02	Upper Parking Lot Dump	SRK-FD1	Ore and Low Grade Ore Stockpiles	SRK-FD04	Oxide Fines Stockpile
SRK-FD05	Toe of Northeast Dump	SRK-FD8	East Main Dump	SRK-FD12 (1 of 8)	Ore and Low Grade Ore Stockpiles; West Main Dump
SRK-FD06	Toe of Northeast Dump	SRK-FD9	Ore and Low Grade Ore Stockpiles; West Main Dump	SRK-FD13	Intermediate Dump
SRK-FD07	Toe of Northeast Dump	SRK-FD10	Ore and Low Grade Ore Stockpiles; West Main Dump	SRK-FD20	Faro Creek Diversion
SRK-FD14 (7 of 8)	Ramp Zone Dump	SRK-FD12 (7 of 8)	Ore and Low Grade Ore Stockpiles; West Main Dump	SRK-FD21 (5 of 10)	Northeast Dumps towards Pit
SRK-FD16	Upper Northwest Dump	SRK-FD14 (1 of 8)	Ramp Zone Dump	SRK-FD22 (1 of 3)	Northeast Dumps towards Pit
SRK-FD17	Upper Northwest Dump	SRK-FD19	Lower Northwest Dump	SRK-FD23 (5 of 8)	Northeast Dumps towards Pit
SRK-FD18	Upper Northwest Dump	SRK-FD21 (5 of 10)	Northeast Dumps towards Pit	SRK-FD24 (1 of 12)	Northeast Dumps towards Pit
SRK-FD26 (11 of 12)	Northeast Dumps towards Pit	SRK-FD22 (2 of 3)	Northeast Dumps towards Pit	SRK-FD27 (1 of 4)	Northeast Dumps towards Pit
SRK-FD44 (1 of 4)	Intermediate Dump	SRK-FD23 (3 of 8)	Northeast Dumps towards Pit	SRK-FD30 (2 of 7)	West Main Dump
SRK-FD50	Zone II East	SRK-FD24 (11 of 12)	Northeast Dumps towards Pit	SRK-FD33	Mill
		SRK-FD26 (1 of 12)	Northeast Dumps Towards Pit	SRK-FD34	Mill
		SRK-FD27 (3 of 4)	Northeast Dumps towards Pit	SRK-FD35 (2 of 4)	Mill
		SRK-FD30 (5 of 7)	West Main Dump	SRK-FD36	West Main Dump
		SRK-FD31	Ore + Low Grade Ore Stockpiles, West Main Dump	SRK-FD37	Medium Grade Stockpile
		SRK-FD32	Mill	SRK-FD38 (1 of 2)	Ore and Low Grade Ore Stockpiles
		SRK-FD35 (3 of 4)	Mill	SRK-FD40 (6 of 11)	Faro Valley Dump
		SRK-FD38 (1 of 2)	Ore + Low Grade Ore Stockpiles	SRK-FD46	Oxide Fines Stockpile, Mill
		SRK-FD40 (5 of 11)	Faro Valley Dump	SRK-FD47	Intermediate Dump
		SRK-FD44 (2 of 4)	Intermediate Dump	SRK-FD49 (1 of 2)	Intermediate Dump
		SRK-FD48	Intermediate Dump		
		SRK-FD49 (1 of 2)	Intermediate Dump		

Note: Where water type at a sampling station was variable over time, the number of samples of each type is shown, along with the total number of samples collected at a particular station. For example, eight samples have been collected at SRK-FD14, with seven samples having Type 1 water quality, and one sample having Type 2 water quality.

Management activities upgradient of FD40 during Summer 2006 may have altered the chemical conditions at this station. In an effort to neutralize acid seepage and mitigate elevated zinc concentrations, a quantity of coarse crushed limestone was used to line an upgradient seepage pathway above the Faro Valley Dump. A review of the pH, alkalinity, Ca, Mg, and Zn concentrations over time indicates that the influence of the limestone on the water chemistry at FD40 is negligible.

4.1.2 Grum Waste Rock Dumps

The 2007 Grum Dump seepage surveys were conducted by walking the external toe of the dump and selected internal dump toes and looking for toe seeps, as previously described. No new seeps were identified in 2007.

Water Types

Most Grum toe seeps sampled in previous years had neutral to slightly alkaline pHs, and would be classified as Type I seeps under the system described for Faro. However, further division is possible on the basis of sulphate and zinc concentrations.

- Type 1a seeps had low to intermediate sulphate (7.0 to 840 mg/L) and low zinc concentrations (<0.005 to 0.4 mg/L). These seeps reflect drainage from calcareous phyllites and till in the northwest draining portion of the dump. Surface mapping in this drainage indicated some sulphides were present in this area, but they were typically in small isolated pockets, and were surrounded by extensive areas of calcareous phyllites.
    - One station (SRK-GD18) returned a field pH of 6.7 and a zinc concentration of 0.39 mg/L in May 2005. These May 2005 results represent the lowest pH and the highest zinc concentrations observed to date in seepage from the northwest portion of the dump. In May 2006 and 2007, SRK-GD18 returned higher pH values (7.1 and 7.7, respectively) and lower zinc concentrations (0.13 and 0.03 mg/L, respectively).
    - An adjacent seep (SRK-GD13) had a field pH (6.9) lower than previously observed and a sulphate concentration (730 mg/L) higher than previously observed during May 2006 monitoring, along with a dissolved zinc concentration near the upper limit of the previously observed range. This station represents the only major flow from the Southwest Dump. In September 2006, the field pH was slightly higher than in May, and sulphate concentrations were slightly lower. During May and September 2007 monitoring, the field pH at this station remained relatively high (7.7 and 7.4, respectively), and zinc concentrations relatively low (0.011 and 0.016 mg/L); however, the sulphate concentration recorded in September 2007 was higher than previously observed (840 mg/L). There is a weak trend of increasing sulphate concentrations over the 2002 (313 to 386 mg/L) through 2007 (660 to 840 mg/L) period; magnesium and calcium concentrations show a similar pattern, with magnesium concentrations doubling over the 2002-2007 monitoring period. Zinc concentrations do not show this same pattern at this time. Nickel concentrations up to

0.13 mg/L have been observed at SRK-GD13, which is the maximum nickel concentration observed from Type 1a seeps at Grum.

- Type 1b seeps generally had zinc concentrations in the range of 2 to 7 mg/L, and sulphate concentrations greater than 500 mg/L. Most of these seeps were towards the southeast, and were below the sulphide cell. However, SRK-GD11, which was theoretically upgradient of the sulphide cell, also fell into this group until 2005. Waste rock mapping completed in September 2002 indicated that significant amounts of sulphide were present above this location, and that sulphidic waste rock was not limited to the sulphide cell. In May 2006, SRK-GD11 returned a dissolved zinc concentration of 17.4 mg/L and a field pH of 6.45 and was reclassified as Type 2 using the Faro system. Conditions had improved by May 2007, with a zinc concentration of 8 mg/L and the field pH of 6.9; however water quality at this station appears to be transitional between Type 1b and Type 2 water classification.
- Station SRK-GD17, sampled at the toe of an internal dump lift near the sulphide cell, is also classified as Type 2. The zinc concentration at this station in May 2007 was considerably lower than observed in 2004 and 2006, but remained elevated (12 mg/L).
- Station SRK-GD16, which flows intermittently, was sampled in May of 2004, 2005 and 2007. The May 2005 sample returned the highest zinc concentration (59.9 mg/L) observed from the southern toe of the Grum Dump to date. The zinc concentration at this station in May 2007 was considerably lower than observed in 2005, but remained elevated at 16.5 mg/L.
- One sample of Type 3 water (SRK-GD19) was collected in Spring 2004 from the toe of an internal lift. Under the Faro system, this sample would be considered transitional between Type 2 and Type 3, based on a dissolved zinc concentration of 107 mg/L and a field pH of 5.7. This station had been dry during subsequent surveys until Spring 2007 when the reported zinc concentration was significantly lower (9.23 mg/L) and was reclassified as Type 2 for that sampling round.
- Station SRK-GD01 returned dissolved zinc concentrations of 17 mg/L and 11 mg/L in Spring 2004 and Spring 2005 respectively. These spring results are elevated over previously observed zinc concentrations at this station, although sulphate concentrations and field pH were within the range of previous results. However, in 2006 and 2007, SRK-GD01 returned zinc concentrations between 2.6 and 3.1 mg/L during both spring and fall sampling periods. These are typical zinc concentrations at SRK-GD01 for the 2002-2007 monitoring period, and appear to indicate that higher concentrations recorded in Spring 2004 and 2005 were not indicative of a trend. As the flow at SRK-GD01 is the single largest source of seepage from Grum Dump, water quality at this station will continue to be closely monitored.

Figure 2 shows the location of seep sampling stations, and provides a graphical summary of the distribution of the different seepage types. Table 3 provides a summary of key characteristics for each of the above seepage types. Full seepage results are included in Appendix A.

Table 3: Characteristics of Grum Water Types

Parameter	Detection Limits	Type 1a					Type 1b					Type 2			Type3	
		Average	Median	Min	Max	N	Average	Median	Min	Max	N	Min	Max	N	Value	N
Field pH (s.u.)	0.01	7.41	7.37	6.73	7.85	27	7.40	7.47	6.65	8.14	39	6.20	7.63	11	5.73	1
Acidity pH 8.3	1	10	8.1	1.0	40	28	23	21	1.0	69	42	7.0	198	11	238	1
Alkalinity Total	1	315	334	108	474	28	519	555	255	700	42	109	659	11	39	1
Chloride	0.2	1.3	1.1	0.50	2.5	23	1.9	2.1	0.50	2.8	27	0.52	2.8	8	0.58	1
Sulphate	0.5	375	400	7.0	836	28	1326	1320	332	2170	42	566	2770	11	1710	1
Calcium	0.05	156	161	42	286	28	334	345	115	477	42	170	461	11	321	1
Magnesium	0.1	77	71	23	179	28	247	237	70	438	42	112	490	11	167	1
Potassium	0.02	3.0	3.0	2.0	4.1	17	7.2	7.0	2.5	12	42	2.7	20	11	6.5	1
Sodium	0.01	3.7	3.2	2.0	5.9	20	11	11	4.0	18	41	2.3	15	11	4.5	1
Aluminum	0.001	0.0073	0.0050	0.0030	0.014	3	0.0029	0.0020	0.0010	0.0050	7	0.0010	0.0040	4	0.28	1
Cadmium	0.00001	0.000060	0.000060	0.000020	0.00010	2	0.00083	0.00075	0.00028	0.0015	7	0.0024	0.089	8	0.18	1
Cobalt	0.0001	0.0041	0.0020	0.00050	0.012	4	0.014	0.0088	0.00040	0.050	14	0.0084	0.45	11	0.70	1
Copper	0.0002	0.0019	0.0010	0.0010	0.0038	3	0.011	0.0027	0.0016	0.041	11	0.0015	0.12	7	2.1	1
Iron	0.01	0.059	0.030	0.030	0.43	28	0.097	0.030	0.030	0.80	42	0.030	27	11	46	1
Lead	0.0002	0.00025	0.00025	0.00020	0.00030	3	0.0011	0.0010	0.00080	0.0015	7	0.0012	0.0082	4	0.14	1
Manganese	0.005	0.11	0.0070	0.0014	1.9	28	0.12	0.052	0.0016	1.0	42	0.11	6.6	11	7.5	1
Nickel	0.0002	0.092	0.088	0.050	0.13	11	0.40	0.37	0.22	0.92	42	0.10	1.5	11	2.7	1
Zinc	0.005	0.033	0.011	0.0050	0.39	28	3.6	2.7	1.1	17	42	7.7	110	11	107	1

Note: Units in mg/L except for acidity/ alkalinity in mg CaCO3 eq/L

Note 2: Detection limits were used for statistical purposes when values were less than detection.
Where detection limits were greater than 10x the minimum detection limit due to high ionic strength, non-detect results were excluded from statistical calculations.

4.1.3 Vangorda Waste Rock Dumps

No new seeps were identified at Vangorda in 2007. The previously-developed grouping of seeps into water types continues to be a useful tool for summarizing the monitoring results.

Water Types

All of the seeps associated with the Vangorda Waste Rock Dump had very high concentrations of zinc and other metals. Six of the seeps sampled in 2007 had pHs between 6 and 7, and five of the seeps were acidic, with pHs of less than 6.

- The seeps with pHs between 6 and 7 can be classified as Type 2 seeps following the system described for the Faro seeps (Section 4.1.1). At Vangorda, these seeps tended to have higher zinc concentrations (13 to 2580 mg/L) than Faro waste rock seeps, reflecting the high proportion of sulphidic waste rock in the Vangorda Dumps. These seeps also had elevated concentrations of cobalt, iron, manganese, and nickel. Cobalt and nickel concentrations were substantially higher than in Type 2 seeps at Faro.
- The acidic seeps can be classified as Type 3 following the system described for Faro. These seeps also tended to have higher zinc concentrations than observed in waste rock seeps at Faro, with values ranging from 87 to 13,100 mg/L. Aluminum, cadmium, cobalt, copper, iron, manganese and nickel concentrations were also generally very high.

Figure 2 shows the location of seep sampling stations, and provides a graphical summary of the distribution of the different seepage types. Table 4 provides a summary of key characteristics for each of the above seepage types. Trends in water quality from the Vangorda dump drains sampled as part of the routine monitoring program carried out by site staff are discussed in Section 4.2.

Table 4: Characteristics of Vangorda Water Types

Parameter	Detection Limits	Type 2					Type 3				
		Average	Median	Min	Max	N	Average	Median	Min	Max	N
Field pH (s.u.)	0.01	6.36	6.34	5.89	7.08	31	4.34	3.92	2.55	5.93	40
Acidity pH 8.3	1	645	224	35	6230	31	9410	5440	213	28700	40
Alkalinity Total	1	128	141	5	351	31	24	2.0	0.5	127	40
Chloride	0.2	0.78	0.50	0.40	2.1	19	1.4	0.50	0.50	11	17
Sulphate	0.5	3560	2690	323	18600	31	22416	15150	1550	67700	40
Calcium	0.05	321	386	69	534	31	425	445	196	530	40
Magnesium	0.1	479	370	27	2790	31	2353	1350	105	7400	40
Potassium	0.02	9.1	11	0.92	14	24	10	10	3.5	28	19
Sodium	0.01	9.1	10	0.30	16	22	7.5	5.2	2.3	15	15
Aluminum	0.001	0.056	0.074	0.0040	0.10	5	76	27	0.40	339	29
Cadmium	0.00001	0.13	0.080	0.028	1.1	31	4.3	1.5	0.14	23	38
Cobalt	0.0001	1.8	0.88	0.029	10	31	12	6.6	0.30	38	40
Copper	0.0002	0.032	0.021	0.0030	0.072	10	10	0.69	0.032	180	23
Iron	0.01	88	7.3	0.030	1070	31	1297	848	0.12	4100	40
Lead	0.0002	0.051	0.040	0.00080	0.11	8	1.1	1.1	0.0040	2.5	19
Manganese	0.005	137	44	2.4	1200	31	1402	714	18	4030	40
Nickel	0.0002	2.7	2.0	0.065	7.2	31	9.8	5.4	0.75	26	40
Zinc	0.005	312	125	13	2580	31	4160	2145	87	13100	40

Note: Units in mg/L except for acidity/ alkalinity in mg CaCO3 eq/L..
Note 2: Detection limits were used for statistical purposes when values were less than detection.
Where detection limits were greater than 10x the minimum detection limit due to high ionic strength, non-detect results were excluded from statistical calculations.

4.2 Routine Monitoring

4.2.1 Faro Site

Locations of the routine seepage monitoring stations are shown in Figure 1. Data for these stations are available in the Anvil Range master water quality database maintained by GLL. Graphs of key parameters are provided in Figures 6 through 11. Plotted values typically represent dissolved concentrations; where only total concentration was reported, this value was used for plotting purposes. Where reported concentrations were below method detection levels, the detection level values were plotted; this causes plotted values for some trace metals to decline over time as lower detection levels were achieved, and is not necessarily indicative of declining concentrations of these parameters.

Station X23

Station X23 is located east of the mill, in the original Faro Creek channel, below the East Main Dump, the Oxide Fines Stockpile, and the Medium Grade Stockpile. Interpretation of trends in this data is complicated by the deposition and removal of some of the stockpiled ore, and by leakage of pit water into the old Faro Creek channel from a drainage ditch during operations (RGI 1996).

This station has been monitored for select parameters since 1986, and for a full suite of parameters since 1989. The data are summarized in Figure 6.

Sulphate concentrations increased in stages, from less than 2000 mg/L in 1986 to approximately 6000 mg/L in 2000/2001, followed by a slight decrease to approximately 4000 mg/L in 2002 and 2003. From mid-2004 through to the beginning of 2007, sulphate concentrations at X23 varied between approximately 5000 and 7000 mg/L, and have levelled out at approximately 5000 mg/L during 2007 (Figure 6). The higher sulphate concentrations observed since 2004 correspond to a slight decrease in pH from an average of approximately 7 to an average of approximately 6.5, and changes in the major ion chemistry from calcium-dominated to magnesium-dominated. Peak concentrations of iron (200 mg/L), zinc (1000 mg/L), and several other metals (e.g. aluminum, cadmium, cobalt, copper, and nickel) were also observed during this period. These observations indicate that the seepage chemistry continues to be in a state of transition, and that concentrations could continue to increase over time. However, concentrations of most parameters exhibited similar seasonal patterns and magnitudes in both 2004 and 2005, and have generally demonstrated decreasing trends since that time.

Station X26

Station X26 is the discharge from the dewatering sump for the Zone II pit, which is completely filled in and buried by waste rock. The sump is operated over an approximately 3 month period during the summer, and water levels are allowed to fluctuate between depths of 60 and 52 metres below the current ground surface. The variable water table in the backfilled Zone II pit causes repeated wetting and submergence of backfill and former pit walls, and sulphides in the former pit walls and backfill may contribute oxidation products to the water sampled at X26. Results from this station are shown in Figure 7.

Monitoring data showed an initial decrease in sulphate concentrations over the first few years of monitoring (1991 to 1995), followed by a gradual and relatively steady increase with concentrations reaching a maximum of 3400 mg/L in 2005, and then beginning to decrease to approximately 2600 mg/L in 2007. pHs have been relatively stable, in the range of 6 to 6.5. Zinc concentrations also peaked in 2005 at 130 mg/L and have since decreased slightly. Iron concentrations followed a similar trend.

There is a weak seasonal pattern in metal concentrations, with generally higher concentrations occurring later in the summer, when dewatering levels are at a minimum. Based on this variation, it is possible that there is some stratification of concentrations in the flooded zone of the pit, or that oxidation products leached from backfill and pit walls are responsible for this increase.

Station FCO/A30

Station A30 (SRK-FD40) is located along the north wall of the pit, below the Faro Valley Dump. The current location is accessed by hiking down from the Faro Valley Dump. In earlier years, the station was a sump, which may have received drainage from other seepage along the pit walls. Station FCO is located immediately upstream of the Faro Valley Dump, and maybe somewhat influenced by leakage through mineralized rock in the road and berm that comprise the Faro Creek Diversion. Both stations have relatively high flows, and these flows contact waste rock along the flowpath between A30 and FCO. Results for these two stations are provided in Figure 8.

Sulphate concentrations at A30 increased from approximately 200 mg/L in 1989 to 600 mg/L in 1997, and ranged from 100 to 600 mg/L for the subsequent period through 2003. Average and peak sulphate concentrations at A30 increased significantly beginning in 2004, with a maximum concentration of 1340 mg/L recorded in May 2005 before demonstrating a decreasing trend. Sulphate concentrations in 2007 ranged from 270 to 430 mg/L. pHs decreased from pH 7.5 in 1989 to pH 3 in 1998. Monitoring from 2001 through 2006 recorded fluctuating pHs, with several pH values near 3 and several in the range of 5.6 to 7.5. 2007 pH values were all approximately 3.3. Zinc concentrations followed similar trends to sulphate, reaching peaks of approximately 100 mg/L in 1998, and then varying from approximately 10 to 100 mg/L since that time. The wide variations in seepage chemistry may reflect differences in the amount of vertical versus lateral flow through the pile. In addition, interpretation of water quality results since 2006 may be confounded by alkaline additions from placement of limestone upgradient during summer 2006, as discussed in Section 4.1.1.

Station SP5/6

Station SP5/6 (equivalent to SRK-FD26) is located below the Upper North East Dump. Flows at this station are substantial, and may be derived from leakage from the Faro Creek Diversion. Results for this station are provided in Figure 9.

Historically, sulphate concentrations have ranged from 200 mg/L to 1000 mg/L, and have been quite variable. Samples from 2006 and 2007 had sulphate concentrations ranging from 360 to 540 mg/L. Zinc concentrations ranged from approximately 2 mg/L to 5 mg/L, and calcium, magnesium, and zinc concentrations were strongly correlated with sulphate. Variations in concentrations appear to be weakly correlated to flows, with lower concentrations occurring in the June samples (high flow), and higher concentrations occurring in the fall samples (low flow).

Stations NE1, NE2 and W5

Stations W5, NE1 and NE2 are located along the toe of the Northeast Dump. W5 was monitored from 1989 to 1991, and then again since 2004, and was probably sampled close to the toe of the dump. Therefore, it is likely that this station is equivalent to SRK-FD05 and -FD06. NE1 and NE2 are monitored in the regular seepage program, but are collected approximately 100 metres downstream of the toe, and may be influenced by interaction with the overburden in that area. Results for all three stations are provided in Figure 10. Data from SRK-FD05 and FD06 are shown in the W5 graphs.

Sulphate concentrations in W5 increased from approximately 300 mg/L in 1987 to 1989 to approximately 400 mg/L in the more recent samples. One sample collected from SRK-FD06B had a peak value of 1160 mg/L sulphate in spring 2006. Sulphate concentrations in 2007 samples ranged from 200 to 700 mg/L. Zinc concentrations increased from much less than 1 mg/L in 1989/90 to seasonably-variable concentrations of 0.5 to 5 mg/L in the last few years with a peak Zn value of 14.4 mg/L collected from SRK-FD06B in spring 2006. Field pHs during this period were neutral, and concentrations of other metals were generally low.

Sulphate concentrations at NE1 were stable within the range of 70 to 130 mg/L from 1997 through 2003, and then increased to range between 100 and 290 mg/L since 2004. Metal concentrations at this station were low throughout the monitoring period.

Sulphate concentrations in NE2 increased from approximately 100 mg/L in 1997 to variable concentrations between 400 and 900 mg/L since mid-2000. Metal concentrations at this station were low throughout the monitoring period.

Station W8/W10

Station W8 is located in Upper Guardhouse Creek, which flows under and alongside an approximately 50 metre section of the Northwest Dump. This station is equivalent to SRK-FD16. Station W10 is located approximately 100 metres upstream from this station and is unaffected by mining activities. Results for W8 (including data from SRK-FD16), and W10 are provided in Figure 11.

Results for both stations indicate consistently neutral pHs, low sulphate and low metal concentrations. There is little if any increase in concentration between W10 and W8.

4.2.2 Grum Site

The routine monitoring stations at Grum are shown in Figure 2. Station V2 has been monitored on a regular basis since 1988, with monitoring at V2A since 1997 and at V15 since 1995. The routine stations are located along the road access and are between 200 and 800 metres below the toe of the dumps, where dilution of toe seepage by surface water and interaction of toe seepage with soils along the flow-paths could be expected. As such, results from these stations are not directly comparable to seepage at the toes of the dumps. The routine seepage monitoring data were available from the Anvil Range master water quality database maintained by GLL. Graphs of key parameters are provided in Figures 12 and 13. Plotted values represent dissolved concentrations; where only total concentration was reported, this value was used for plotting purposes. Where reported concentrations were below method detection levels, the detection level values were plotted, causing plotted values for some trace metals to decline over time as lower detection levels were achieved. As such, these changes are not necessarily indicative of declining concentrations of these parameters. Results from these stations have also been discussed as part of the 2007 Adaptive Management Plan (AMP) Event #4 report (SRK 2008).

Stations V15 and V2

Station V15 represents surface runoff and groundwater seepage discharging from a sedimentation pond below the toe of the waste dump at the upper limit of Tributary A. The area immediately upgradient is a groundwater discharge zone for one of the Grum Dump catchments, and toe seeps at stations SRK-GD04 and SRK-GD21 are intermittently present as surface discharges. Water at station V15 has been in close contact with soils and sediments, and chemical interaction with these materials is likely significant. Results for these stations are provided in Figure 12.

Sulphate concentrations at Station V15 increased gradually between 1996 and 2000 (from 100 mg/L to 300 mg/L), and then more rapidly in 2000 and 2001, reaching levels in the range of 1000 mg/L by June 2001. Sulphate concentrations remained at approximately 1000 mg/L until 2004, and then increased to approximately 2000 mg/L by fall of 2005, with a March 2005 spike to approximately 3000 mg/L. Sulphate concentrations remained at approximately 2000 mg/L through 2006 and ranged from 1400 to 1900 mg/L through 2007. The increase in sulphate concentrations corresponded to increases in calcium and magnesium concentrations, with calcium concentrations generally exceeding magnesium concentrations. pHs had been stable in the range of 7.5 to 8 until the beginning of 2006 when they began to decrease to as low as 6.3 in the fall of 2007. There has been a corresponding increase in zinc concentrations as pH has dropped from concentrations generally much less than 0.1 mg/L prior to 2006 to a high of 1.2 mg/L recorded in October 2007. Over this same time period, nickel concentrations have increased from 0.01 mg/L to 0.07 mg/L and cadmium concentrations have increased from <0.0002 mg/L to 0.001 mg/L.

Station V2 is located upstream of Vangorda Creek in the original Grum Creek channel, and is fed by discharge from the sedimentation pond at V15, as well as by seepage losses from the Grum Creek diversion and local runoff. During 2007, discharge from V15 was diverted by a ditch to Moose Pond via Grum Creek. Minor seepage losses from the ditch continue to report to V2.

Sulphate concentrations at V2 increased from less than 50 mg/L in the late 1980s (i.e. prior to dump construction) to approximately 150 mg/L in 1998. In 1998, concentrations started to increase rapidly, reaching 600 to 700 mg/L by 2000. Sulphate concentrations remained between 600 and 700 mg/L from 2000 through mid-2004 then increased to approximately 1000 mg/L since 2005. pHs were in the range of 7 to 8.5 throughout this period. The increase in sulphate concentrations was accompanied by an increase in both calcium and magnesium concentrations. Calcium remained the dominant cation. Zinc concentrations at station V2 have been highly variable, with typical concentrations ranging from less than 0.01 to 1 mg/L prior to 2002, and from 0.005 to 0.05 mg/L since 2002. Concentrations of other metals (e.g. cadmium, iron, cobalt, copper, and nickel) were variable, but generally low, and have remained constant or declined in recent years.

Station V2A

Station V2A represents the downstream extent of the largest seepage flows that originate at the toe of the Grum dump, at stations SRK-GD01 and SRK-GD02. In addition, diverted water from Station V15 began reporting to Grum Creek above the sampling point in mid-2007. Station V2A is sampled where water diverted from Grum Creek discharges into Moose Pond via a culvert. Sample frequency was irregular at this station prior to 2002. Results for this station are provided in Figure 13.

Sulphate concentrations at Station V2A increased erratically between 1996 and 1999 (from 100 mg/L to 400 mg/L). No monitoring was conducted at V2A during 2000, and sulphate concentrations had jumped to 800 mg/L by the next monitoring event in June 2001. Sulphate concentrations at V2A then varied seasonally between 300 and 1000 mg/L from 2001 to late 2007, demonstrating a slightly increasing trend over time (2007 samples ranged from 750 to 1000 mg/L, with the highest sulphate concentrations likely influenced by the diversion of water from V15). The seasonally-fluctuating sulphate concentrations were mirrored by calcium and magnesium concentrations over the 2001-2007 period. pHs were stable in the range of 7.5 to 8.5 throughout the monitoring period.

Zinc concentrations at Station V2A were highly variable, with typical concentrations ranging from less than 0.01 to 0.1 mg/L prior to 2000. Zinc concentrations from 2001 to present appeared to follow a pattern of annual peaks during June freshet (0.2 to 3.4 mg/L) and lows associated with late winter flows (0.05 to 0.08 mg/L). Zinc concentrations at V2A peaked during summer 2005, ranging from 0.7 to 1.3 mg/L. 2007 concentrations show a similar seasonal pattern with somewhat lower absolute concentrations and a smaller range of values (0.03 to 0.23 mg/L). Other metal concentrations (e.g. cadmium, iron, cobalt, copper, and nickel) were variable, but generally low, and did not change significantly over time.

4.2.3 Vangorda Site

The routine seepage monitoring stations at Vangorda are the three drains shown in Figure 2, as well as a Vangorda Creek monitoring station below all mine inputs (not shown on Figure 2). Results for these stations were available from the Anvil Range master water quality database maintained by GLL. Graphs of key parameters are provided in Figures 14 to 17. Plotted values represent dissolved concentrations; where only total concentration was reported, this value was used for plotting purposes. Where reported concentrations were below method detection levels, the detection level values were plotted; this causes plotted values for some trace metals to decline over time as lower detection levels were achieved, and is not necessarily indicative of declining concentrations of these parameters.

Drains 3, 5 and 6 (Stations V30, V32 and V33)

Three of the drains (Drain 3, 5 and 6) at Vangorda have been monitored as part of the routine monitoring programs since 1994. The other drains (Drains 1, 2 and 4) have historically been consistently dry. Results are shown in Figures 14 through 16.

Results for station V30 (Drain 3, SRK-VD03) are provided in Figure 14. Seepage from this station has had pHs close to 6 throughout the monitoring period. Sulphate concentrations increased from 2500 mg/L in 1994 to a peak concentration of 6200 mg/L in fall 2004 and had decreased to approximately 4200 mg/L in 2007. Zinc concentrations were highly variable in the range of 150 to 600 mg/L from 1994 through spring 2000. Station V30 was not monitored again until spring 2002 and zinc concentrations have been more stable since that time, in the range of 200 to 600 mg/L.

Results for station V32 (Drain 5, SRK-VD04) are provided in Figure 15. pHs at this station have decreased from approximately 5 in 1994 to approximately 3 over the 2003 through 2006 period, with one value of 2.2 reported. 2007 pH values in 2007 ranged from 2.9 to 3.8. Sulphate concentrations increased substantially during this period from approximately 5000 mg/L in 1994 to greater than 65,000 mg/L in 2006/2007, with a peak of 93,000 mg/L reported in 2004. The high sulphate concentrations were supported by a similar magnitude of increase in magnesium concentrations (from approximately 500 mg/L in 1994 to 5500 mg/L in 2007) as well as substantial increases in iron, manganese and zinc concentrations. Recent iron and manganese concentrations have been in the range of 3000 to 4000 mg/L, and zinc concentrations have been approximately 11000 mg/L. Concentrations of aluminum increased until 2005 and have fluctuated between 150 and 350 mg/L since then. Cadmium increased to a peak concentration of 18 mg/L in 2004 and ranged between 5 and 10 mg/L in 2007. Cobalt (30 mg/L) and nickel (20 mg/L) concentrations were relatively stable over the 2002 through 2006 monitoring period. Concentrations of copper have generally decreased from a maximum of 0.5 mg/L in 2003; however a peak value of 2 mg/L was recorded in October 2007. Lead concentrations were highest between 1997 and 2000 (10 mg/L) and have decreased to approximately 1 mg/L since 2005 with one value of 3 mg/L recorded in October 2007.

Results from Station V33 (Drain 6, SRK-FD05) are provided in Figure 16. pHs were in the range of 6 to 7 from 1994 to 1999, dropped to approximately 6 in the 2000 to 2002 samples, and further decreased to between 5 and 6 in 2004 and 2005, with a single low value of 3.2 reported in June 2005. 2006 and 2007 pH values were slightly higher, ranging from 5.7 to 6.6. Sulphate concentrations were in the range of 2000 to 5000 mg/L from 1994 to 2000, and then increased to a peak of approximately 90,000 mg/L in 2004, and concentrations of approximately 50,000 mg/L in 2007. Magnesium concentrations increased over time, beginning in 2001, and were correlated with sulphate concentrations. Concentrations of iron, zinc and several other metals have increased slightly since 2000, with zinc concentrations generally in the range of 3000 to 10,000 mg/L in recent years.

Station V27

Station V27 is the first routine monitoring station in Vangorda Creek downstream of the Vangorda and Grum Waste Rock dumps and other mine-related sources. Although interpretation of the surface water sampling stations is not directly relevant to the seepage monitoring program, the low flows observed in seeps from the Vangorda Dump suggest that some water could be leaving the system via the subsurface. Station V27 is sufficiently lower in elevation that it could be reasonably expected to reflect any contaminants that are transported via the groundwater system. However, Vangorda Creek flows are very large, so significant changes in loading would be needed before any changes from the dumps could be observed. Also, arrival of Vangorda Dump contaminants at Vangorda Creek may not yet have occurred, as groundwater movement in the soils underlying the dump is expected to be slow. In addition, any loading entering the creek from the Grum dump would contribute to loads at this location. Results for station V27 are presented in Figure 17.

Results for this station indicated consistently neutral pHs, and generally low sulphate concentrations from 1991 to 2002. A sulphate concentration of 125 mg/L was recorded in spring 2002 but concentrations have been decreasing since that time to approximately 50 mg/L since 2005. Metal concentrations were generally very low, and have exhibited a slightly decreasing trend since 2002. Copper and zinc concentrations in Vangorda Creek were near or above CCME guidelines for aquatic life, and detection limits for several other parameters were too high to evaluate whether they meet CCME criteria.

4.3 Temperature and Oxygen Monitoring of Waste Rock

There were no significant changes in the temperature and oxygen monitoring data compared to data from previous years (see SRK 2007). A discussion of the thermal and oxygen data will be included in the report being prepared to summarize the findings of Task 29 – Supplemental Geochemical Studies.

5 Conclusions

Seeps associated with the Faro Waste Rock Dumps showed a wide range of pH and zinc concentrations. The highest zinc concentrations (>200 mg/L, as high as 21,100 mg/L) were associated with the ore stockpiles and mill area. High zinc concentrations were also associated with the sulphide cells on the Main Dumps (up to 900 mg/L). A large number of seeps associated with the waste rock were acidic or partially buffered, and had zinc concentrations in the range of 5 to 600 mg/L. A moderate number of seeps at Faro had alkaline pHs, and zinc concentrations of less than 5 mg/L. These were associated with dumps that contained relatively little sulphide waste rock. Cadmium, cobalt, copper, iron, manganese and nickel concentrations in some of the seeps are at concentrations that significantly exceed receiving water quality criteria.

Seeps associated with the Grum Waste Rock Dumps had consistently neutral to alkaline pHs. Seeps draining to the southeast had zinc concentrations generally in the range of 2 to 7 mg/L and elevated sulphate concentrations. Seeps draining to the northwest had zinc concentrations ranging from <0.005 to 0.4 mg/L, dissolved nickel concentrations up to 0.13 mg/L, and generally lower, but increasing, sulphate concentrations. The seeps to the Southeast were located below the sulphide cell, or below sulphidic waste identified in the SRK September 2002 surface mapping programs. Zinc concentrations remained within stable ranges at all southeast draining seeps in 2007. No other trace metals of concern have been identified in the Grum seepage to date.

Seeps associated with the Vangorda Waste Rock Dumps were acidic to partially buffered, and contained high to very high zinc concentrations (from 10 to 13,100 mg/L). Sulphate and zinc concentrations have increased since the routine seepage monitoring programs were initiated in 1994, but concentrations appear to have stabilized within broad ranges of seasonal variation since 2004. Other trace metals significantly exceeding receiving water quality criteria in the Vangorda seepage include aluminum cadmium, cobalt, copper, iron, manganese and nickel. Cobalt and nickel are notably higher compared to acidic seeps at Faro.

Routine monitoring station X23 below the Faro Main Dump showed similar seepage chemistry to that observed in 2006. Sulphate, major ion and trace metal concentrations have generally demonstrated decreasing trends since 2004/2005.

Routine monitoring of stations V2 and V2A (southeast of Grum Dump) in 2007 showed similar pH conditions and major and trace element concentrations as observed in 2006. However, the dramatic increase in zinc concentration at station V15 (upgradient of V2) has continued, with dissolved zinc concentration steadily increasing from the previously-observed maximum of about 0.7 mg/L in December 2006 to nearly 1.2 mg/L in October 2007. The trend in dissolved zinc concentrations at station V15 appears to show a classic case of breakthrough of an attenuated chemical species, and the results reviewed to date do not suggest that the breakthrough process has run its course. For a detailed discussion of the evolution of Grum Dump seepage chemistry, see the 2007 AMP Event #4 Response: Status Report (SRK, 2008).

Pit seepage monitoring was carried out during 2007 to supplement the existing pit seep monitoring record. Detailed evaluation of the 2007 pit seep monitoring results was not carried out.

There were no significant changes in the temperature and oxygen monitoring data compared to data previous years (see SRK 2007). Therefore, further interpretation of the data is not warranted at this time.

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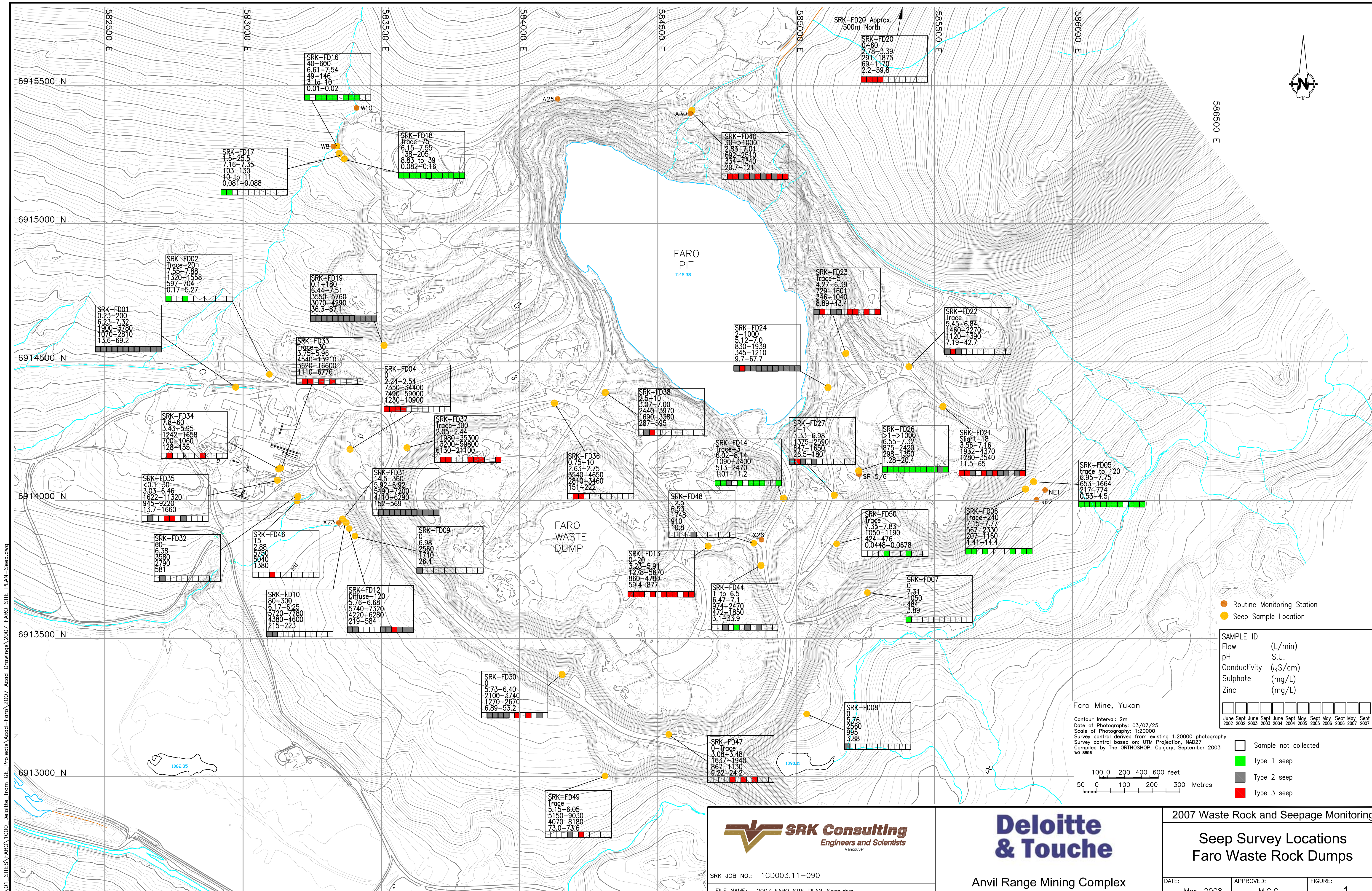
SRK 2007. Anvil Range Mining Complex- 2006 Waste Rock and Seepage Monitoring Report: 2006/07 Task 14. Report prepared for Deloitte & Touche Inc. (Interim Receiver for Anvil Range Mining Corporation) on behalf of Faro Mine Closure Planning Office. June 2007.

SRK 2008. 2007 AMP Event #4 Response: Status Report. Report prepared for Deloitte & Touche Inc. (Interim Receiver for Anvil Range Mining Corporation) on behalf of Faro Mine Closure Planning Office. January 2008.

Figures



FARO PIT
FARO WASTE DUMP
SRK-FD20 Approx. 500m North
SRK-FD20
0-60
2.78-3.39
291-1875
69-1170
2.2-59.8
SRK-FD16
40-600
6.61-7.54
49-146
3 to 10
0.01-0.02
SRK-FD18
Trace-75
6.15-7.55
138-205
8.83 to 39
0.082-0.16
SRK-FD17
1.5-25.5
7.16-7.35
103-130
10 to 11
0.081-0.088
SRK-FD40
30->1000
2.83-7.01
692-2510
334-1340
20.7-121
SRK-FD02
Trace-20
7.55-7.88
1320-1558
597-704
0.17-5.27
SRK-FD19
0.1-180
6.44-7.51
3550-5760
3070-4290
36.3-87.1
SRK-FD01
0.23-200
6.23-7.32
1900-3780
1070-2810
13.6-69.2
SRK-FD33
Trace-30
3.75-5.96
4540-13910
3620-16600
1110-6770
SRK-FD04
0
2.24-2.54
7350-34400
7490-59000
1230-10900
SRK-FD23
Trace-5
4.27-6.39
729-1601
346-1040
8.89-43.4
SRK-FD22
Trace
5.45-6.84
1460-2270
1120-1390
7.19-42.7
SRK-FD24
2-1000
3.12-7.0
830-1939
345-1210
9.7-67.7
SRK-FD38
2.5-10
3.07-7.00
2440-3970
1690-3380
287-595
SRK-FD34
7.8-60
3.43-5.95
1242-1658
700-1060
128-155
SRK-FD37
Trace-300
2.05-2.44
11980-35300
13200-59800
6130-21100
SRK-FD27
0-1
3.33-6.98
1375-2590
647-1650
26.5-180
SRK-FD26
>1->1000
6.55-7.32
875-2420
298-1350
1.28-20.4
SRK-FD21
Slight-18
3.56-7.16
1932-4370
1280-3540
11.5-65
SRK-FD36
0.75-10
2.63-2.75
3540-4650
2810-3460
151-222
SRK-FD14
Trace-5
6.02-8.14
1090-3400
513-2470
1.01-11.2
SRK-FD05
trace to 120
6.95-7.75
653-1664
217-774
0.53-4.5
SRK-FD35
<0.1-30
3.03-6.46
1622-11320
945-9220
13.7-1660
SRK-FD31
14.5-360
5.92-6.92
5490-7200
4110-6290
152-569
SRK-FD48
12.5
6.53
1748
910
10.8
SRK-FD50
Trace
7.35-7.83
1050-1190
424-476
0.0448-0.0678
SRK-FD06
Trace-240
7.15-7.77
567-2330
207-1160
1.41-14.4
SRK-FD32
60
6.38
3580
2790
581
SRK-FD46
15
2.88
6750
5040
1380
SRK-FD09
0
6.98
2560
1710
26.4
SRK-FD13
0-20
3.23-5.91
1278-5670
860-4780
59.4-877
SRK-FD44
1 to 6.5
6.47-7.1
974-2470
472-1850
3.1-33.9
SRK-FD07
0
7.31
1050
484
3.89
SRK-FD10
80-300
6.17-6.25
5720-7780
4380-4600
215-223
SRK-FD12
Diffuse-120
5.76-6.68
5740-7320
4220-6280
219-584
SRK-FD30
0
5.73-6.40
2100-3740
1270-2670
6.89-53.2
SRK-FD08
0
5.76
2560
995
3.88
SRK-FD47
0-Trace
3.08-3.48
1637-1940
867-1130
9.22-24.2
SRK-FD49
Trace
5.15-6.05
5150-9030
4070-8180
73.0-73.6
A25
A30
W10
W8
X23
X26
SP 5/6
NE1
NE2
582500 E
583000 E
583500 E
584000 E
584500 E
585000 E
585500 E
586000 E
586500 E
6915500 N
6915000 N
6914500 N
6914000 N
6913500 N
6913000 N
N
Routine Monitoring Station
Seep Sample Location
SAMPLE ID
Flow (L/min)
pH S.U.
Conductivity (µS/cm)
Sulphate (mg/L)
Zinc (mg/L)
June 2002 Sept 2002 June 2003 Sept 2003 June 2004 Sept 2004 May 2005 Sept 2005 May 2006 Sept 2006 May 2007 Sept 2007
Sample not collected
Type 1 seep
Type 2 seep
Type 3 seep
Faro Mine, Yukon
Contour Interval: 2m
Date of Photography: 03/07/25
Scale of Photography: 1:20000
Survey control derived from existing 1:20000 photography
Survey control based on: UTM Projection, NAD27
Compiled by The ORTHOSHOP, Calgary, September 2003
100 0 200 400 600 feet
50 0 100 200 300 Metres
SRK Consulting
Engineers and Scientists
Vancouver
Deloitte & Touche
2007 Waste Rock and Seepage Monitoring
Seep Survey Locations
Faro Waste Rock Dumps
SRK JOB NO.: 1CD003.11-090
FILE NAME: 2007 FARO SITE PLAN-Seep.dwg
Anvil Range Mining Complex
DATE: Mar. 2008
APPROVED: M.C.C.
FIGURE: 1
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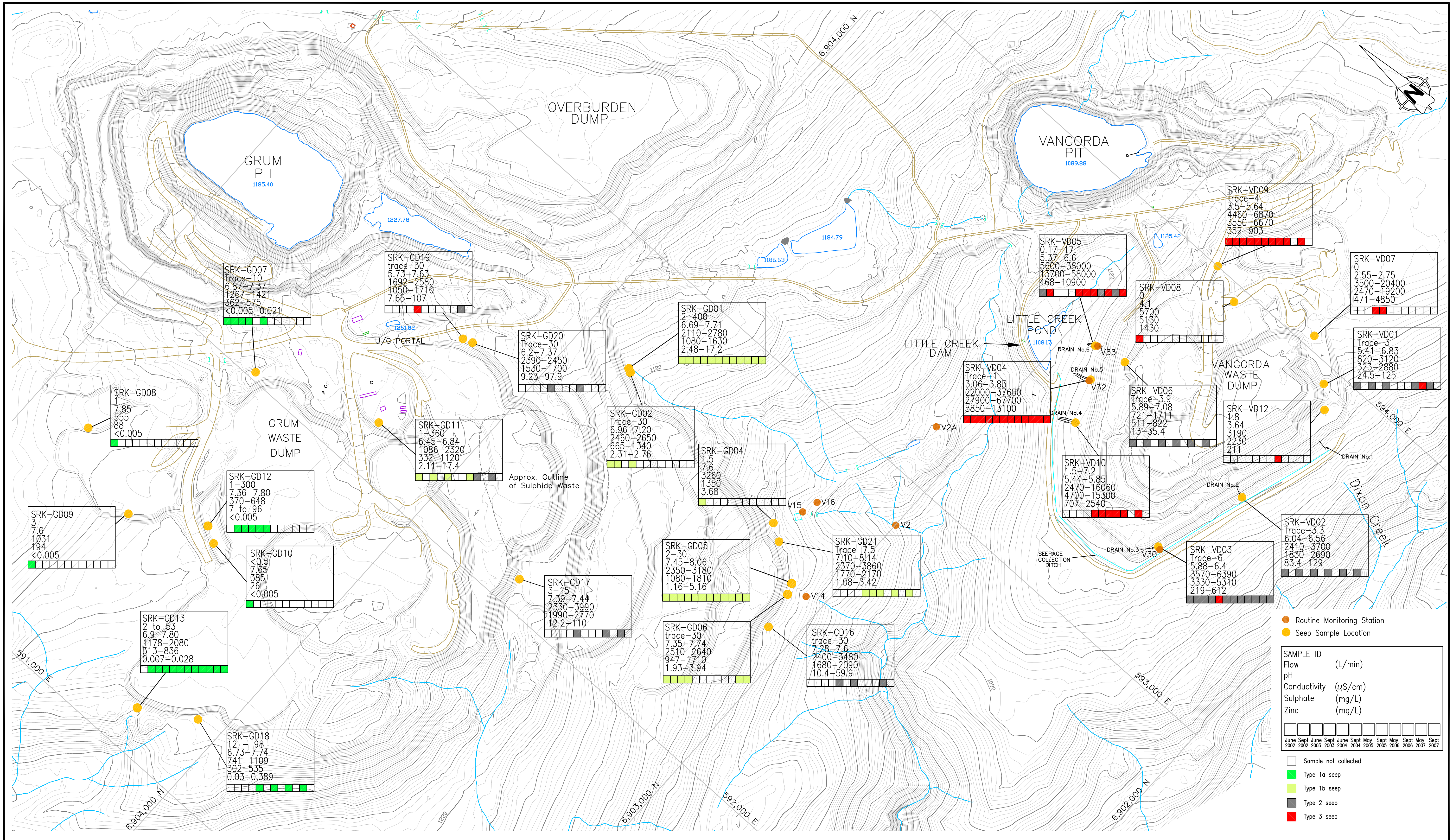

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SRK JOB NO.: 1CD003.11-090

Acad-Vangorda-Grum\Acad-2007\ site_plan_2007-Seep.dwg

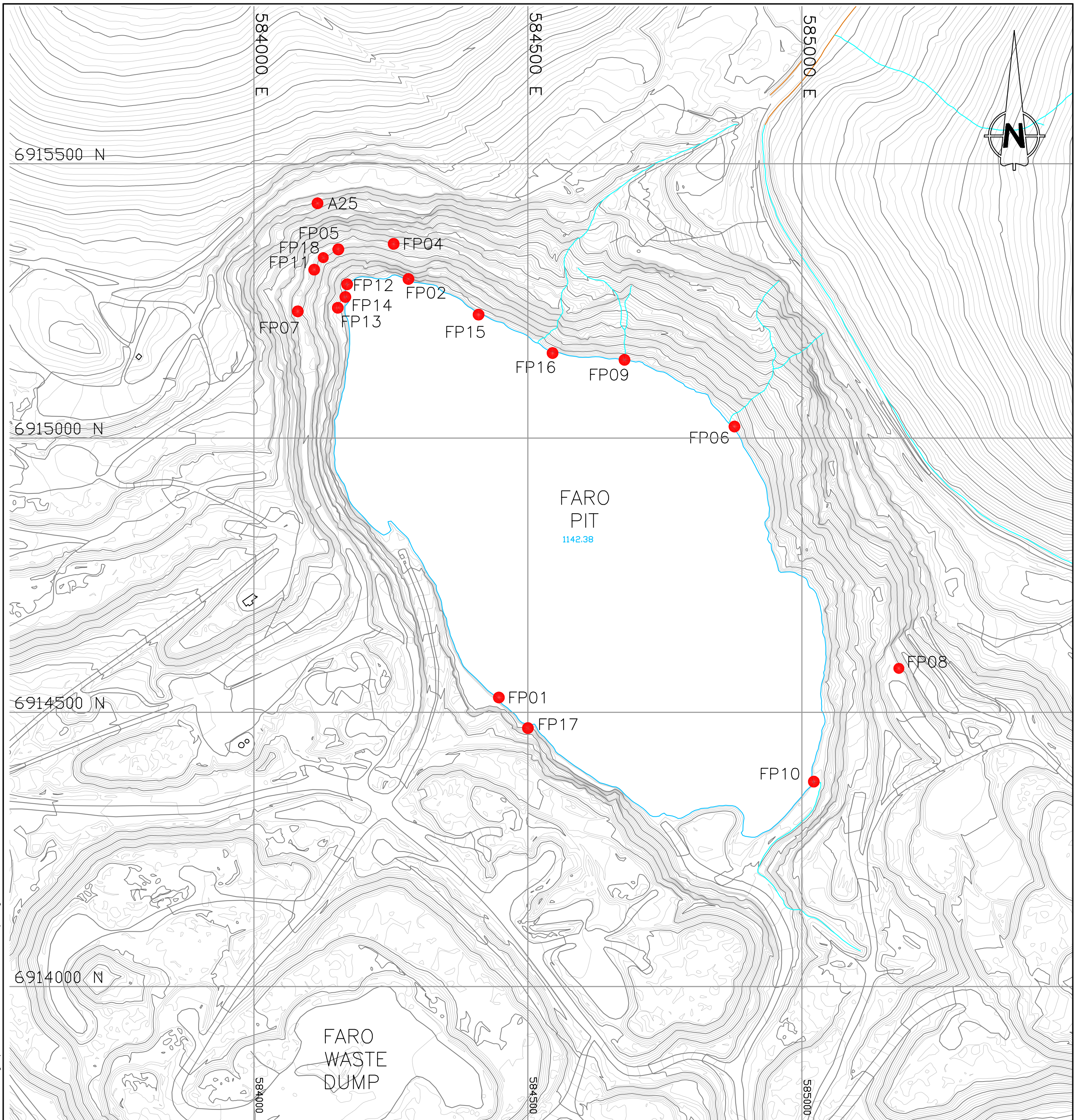
Deloitte & Touche

Anvil Range Mining Complex

2007 Waste Rock and Seepage Monitoring

Seep Survey Locations
Vangorda & Grum
Waste Rock Dumps

DATE:	APPROVED:	FIGURE:
Mar. 2008	M.C.C.	2



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Date of Photography: 03/07/25
Scale of Photography: 1:20000
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Survey control based on: UTM Projection, NAD27
Compiled by The ORTHOSHOP, Calgary, September 2003
WO 8856

0 50 100 150 200 250 300 350 400 450 500m

Scale 1:10,000

● Seep Sample Location

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2007 Waste Rock and Seepage Monitoring

Seep Survey Locations Faro Pit

SRK JOB NO.: 1CD003.11–090

FILE NAME: 2007 FARO SITE PLAN–Seep.dwg

Anvil Range Mining Complex

DATE: Mar. 2008

APPROVED: M.C.C.

FIGURE: 3

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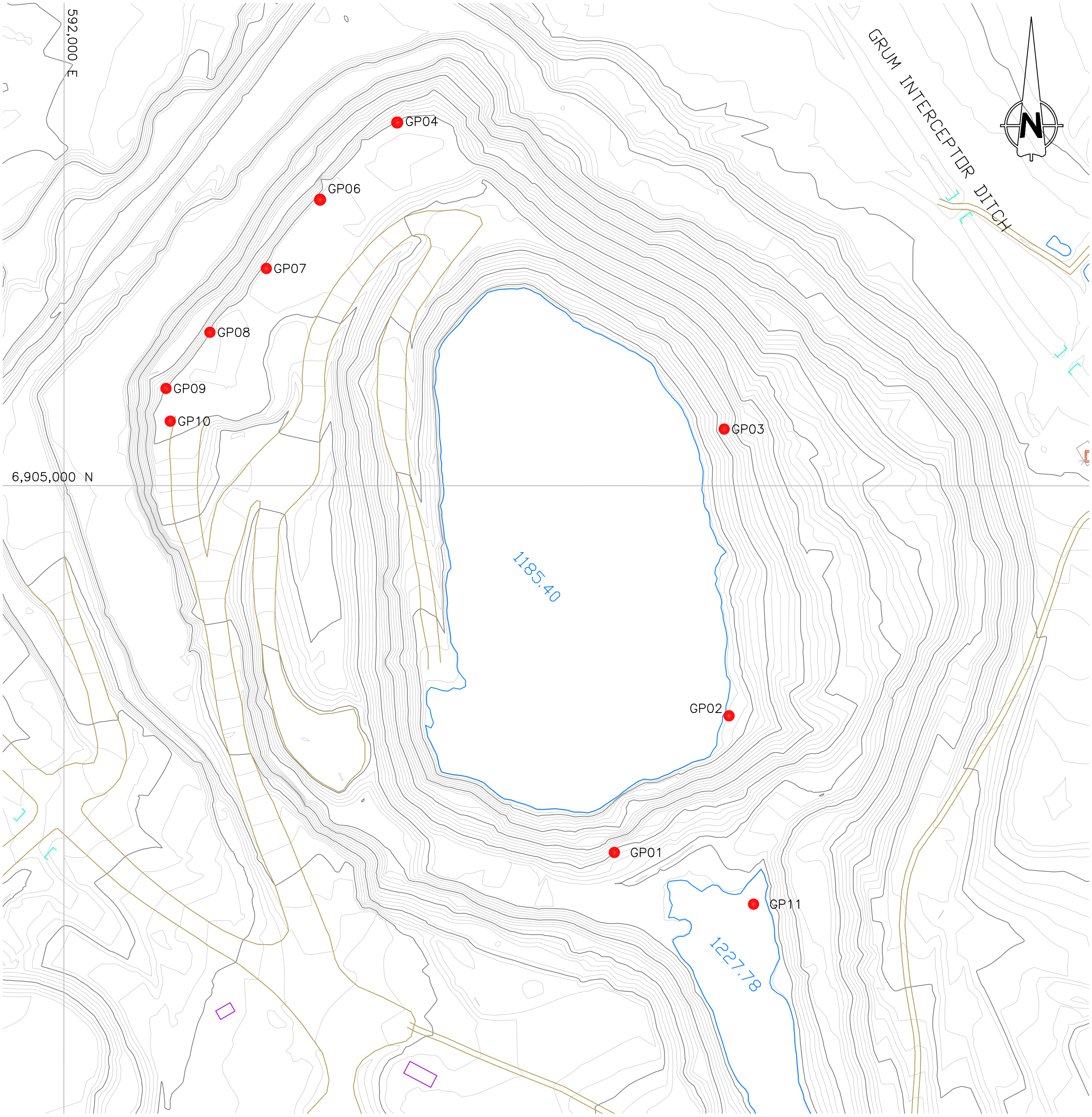

Seep Sample Location

Contour Interval: 2m
Date of Photography: 03/07/25
Scale of Photography: 1:20000
Survey control derived from existing 1:20000 photography
Survey control based on: UTM Projection, NAD27
Compiled by The ORTHOSHOP, Calgary, September 2003
WO 8856

0 50 100 150 200 250

Scale 1:5000

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2007 Waste Rock and Seepage Monitoring

Seep Survey Locations
Grum Pit

SRK JOB NO.: 1CD003.003–090

FILE NAME: site_plan_2007_Seep Locations.dwg

Anvil Range Mining Complex

DATE: Mar. 2008

APPROVED: M.C.C.

FIGURE: 4

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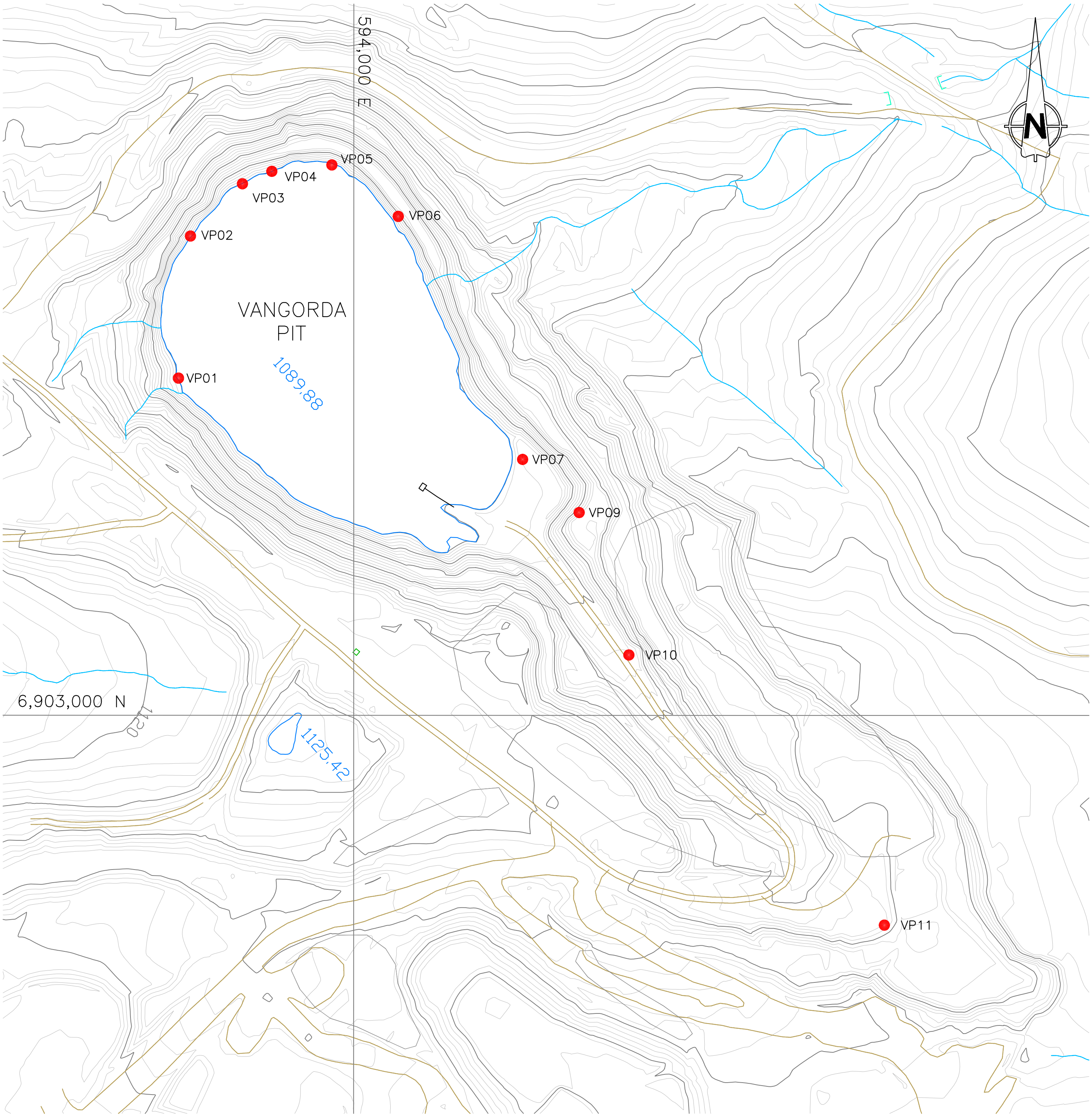

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WO 8856

0 50 100 150 200 250

Scale 1:5000

Seep Sample Location

J:\01_SITES\FARO\1000_Deloitte_from GE_Projects\Acad-Vangorda-Grum\2007 Drawings\site_plan_2007_Seep Locations.dwg

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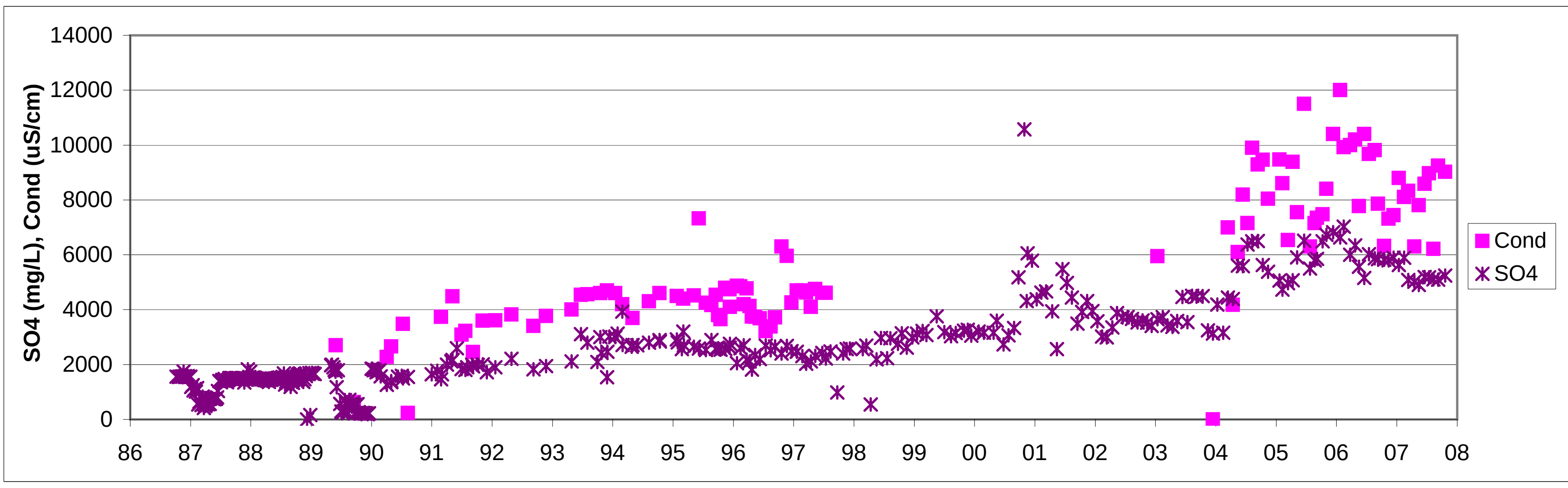
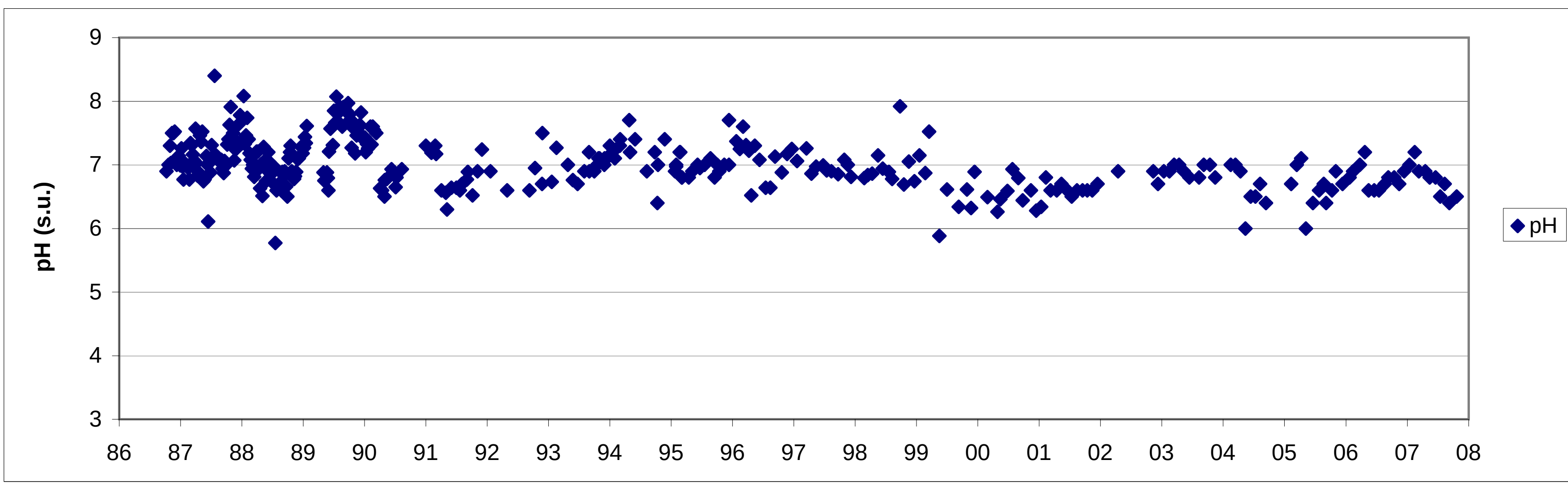
2007 Waste Rock and Seepage Monitoring

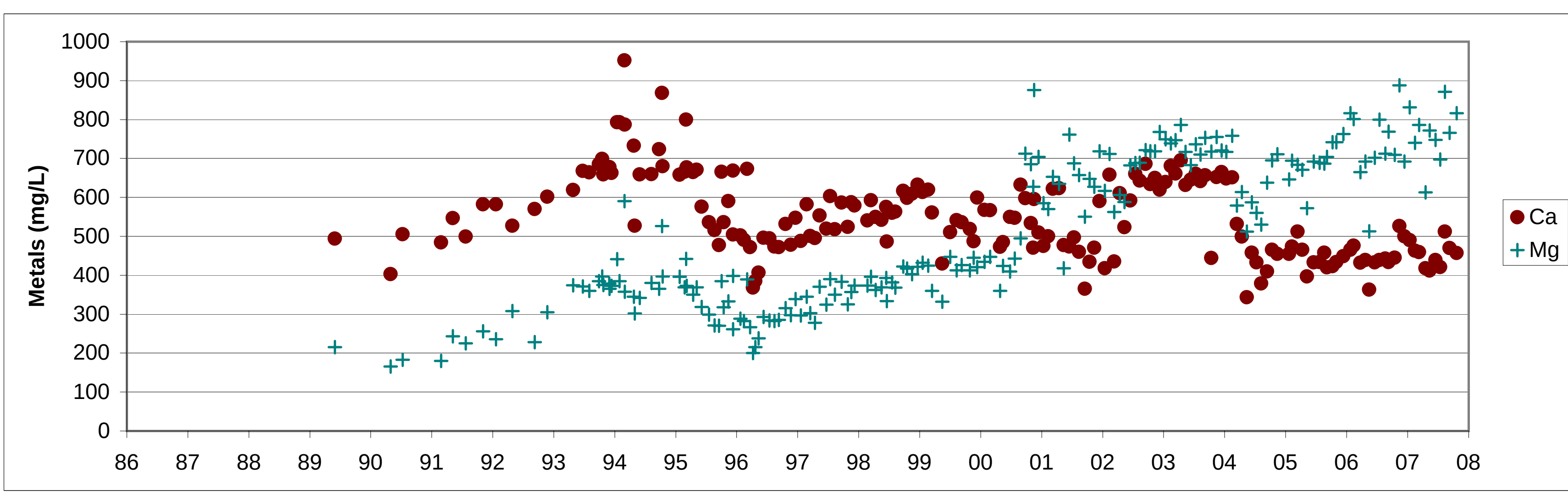
Seep Survey Locations Vangorda Pit

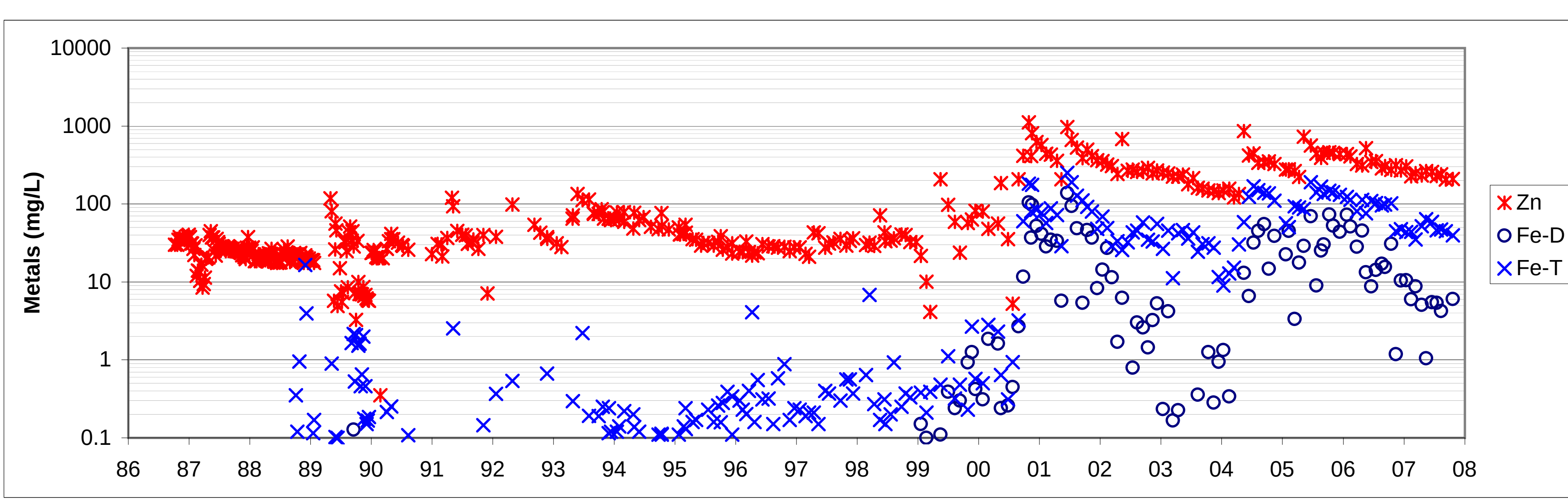
SRK JOB NO.: 1CD003.003–090	Anvil Range Mining Complex	DATE: Mar. 2008	APPROVED: M.C.C.	FIGURE: 5
FILE NAME: site_plan_2007_Seep Locations.dwg				

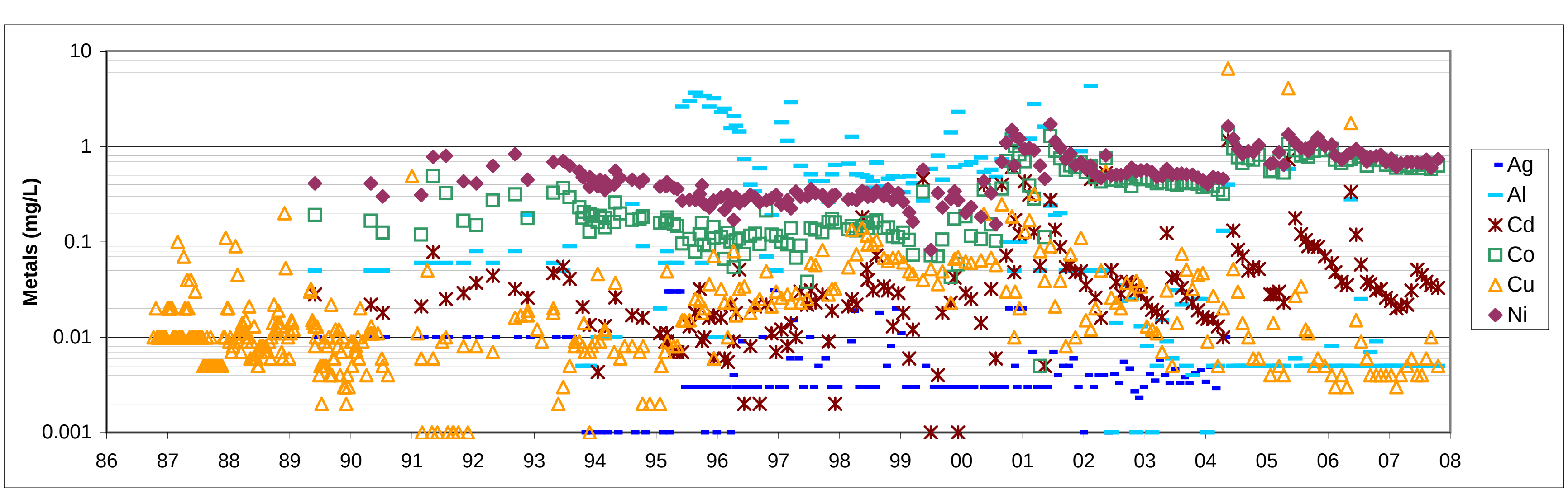
X23











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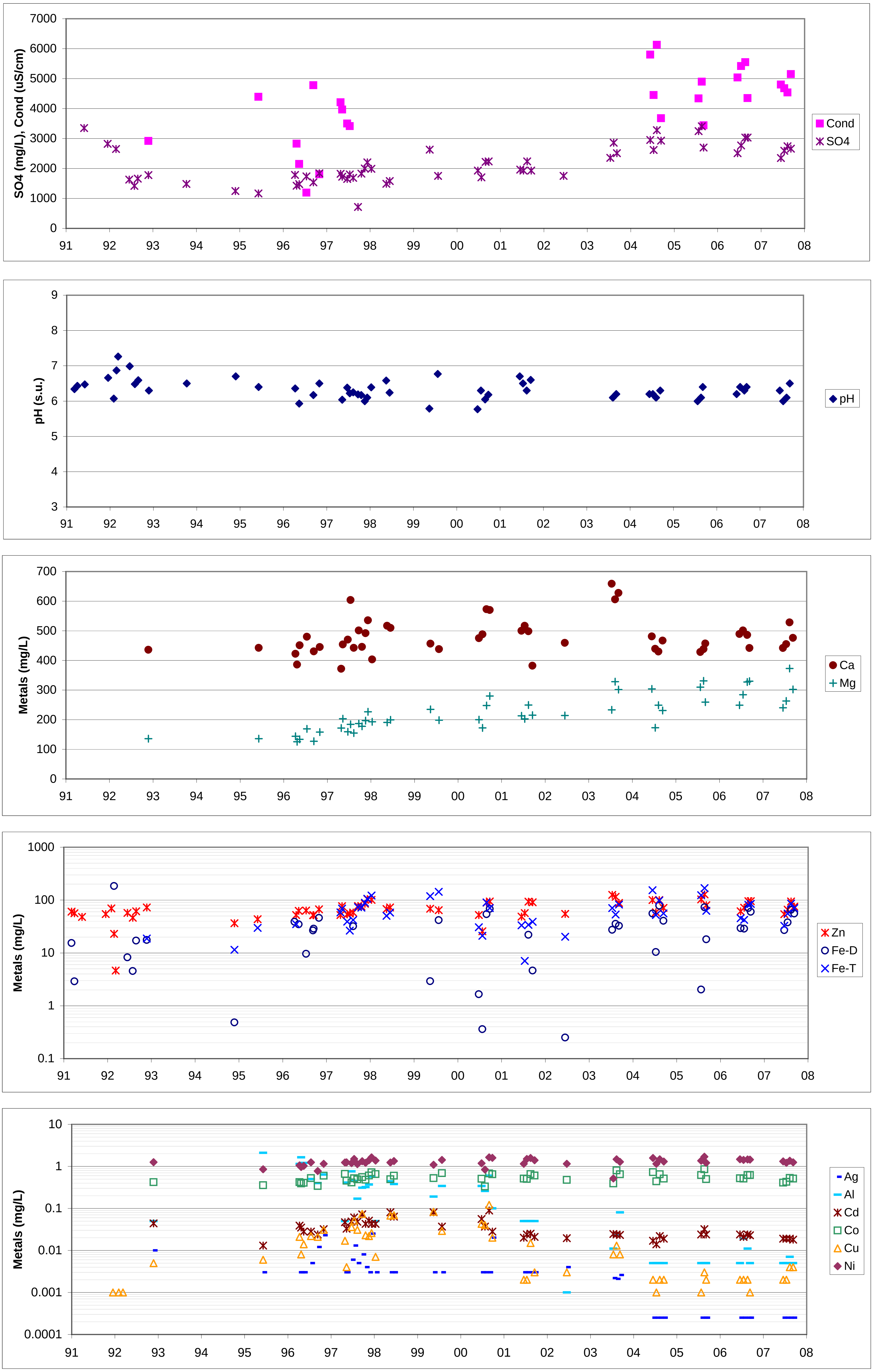
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Faro Seepage Station
X23

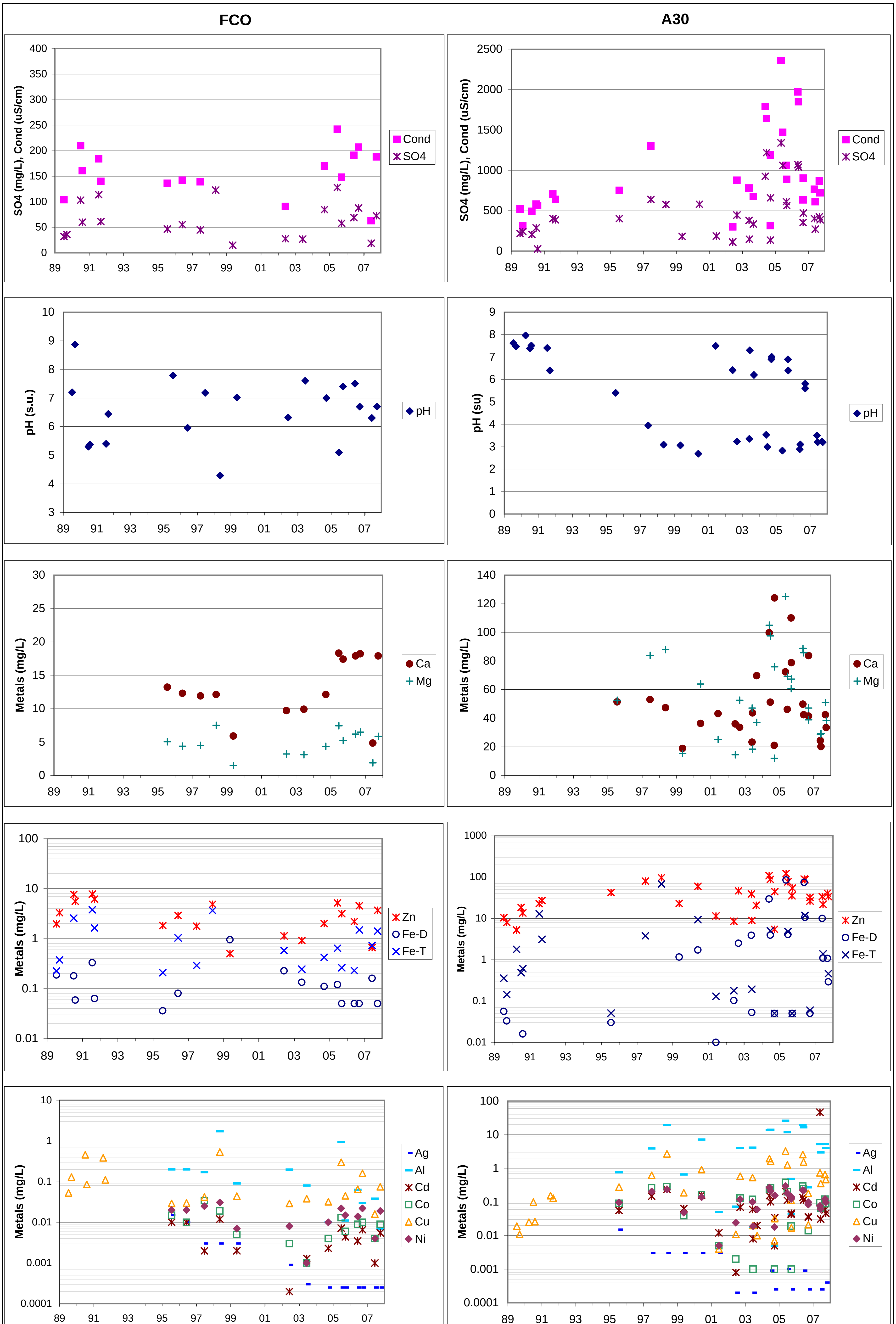
PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		6

X26



SRK Consulting Engineers and Scientists	Anvil Range Mining Complex 2007 Waste Rock and Seepage Monitoring Report
	Faro Seepage Station X26
DELOITTE & TOUCHE INC.	PROJECT 1CD003.090 / DATE March 2008 / APPROVED / FIGURE 7

Faro_Routine Graphs.2007



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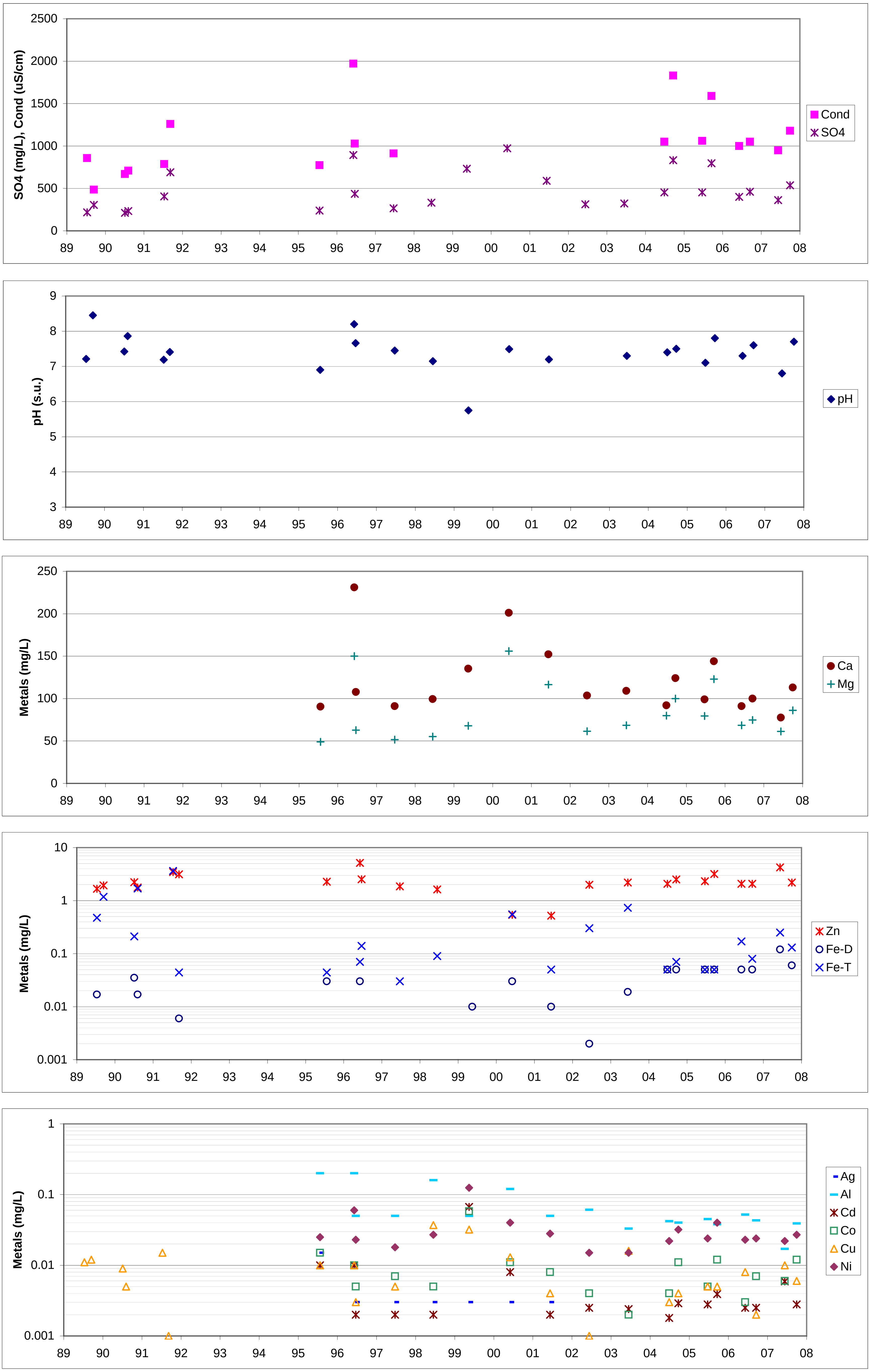
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Faro Seepage Stations
FCO and A30

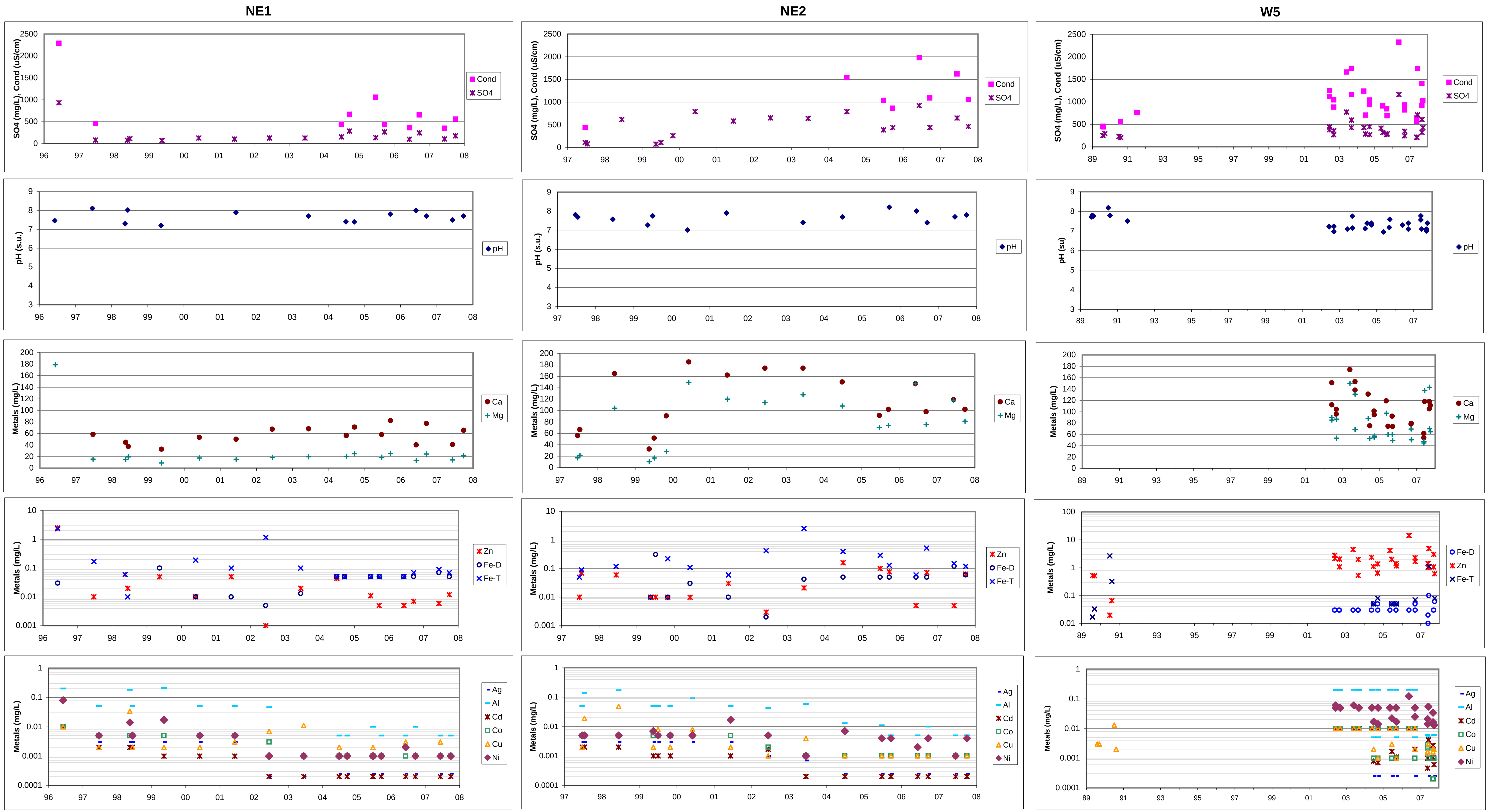
PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		8

SP5-6



SRK Consulting Engineers and Scientists	Anvil Range Mining Complex 2007 Waste Rock and Seepage Monitoring Report
DELOITTE & TOUCHE INC.	Faro Seepage Station SP5-6

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		9



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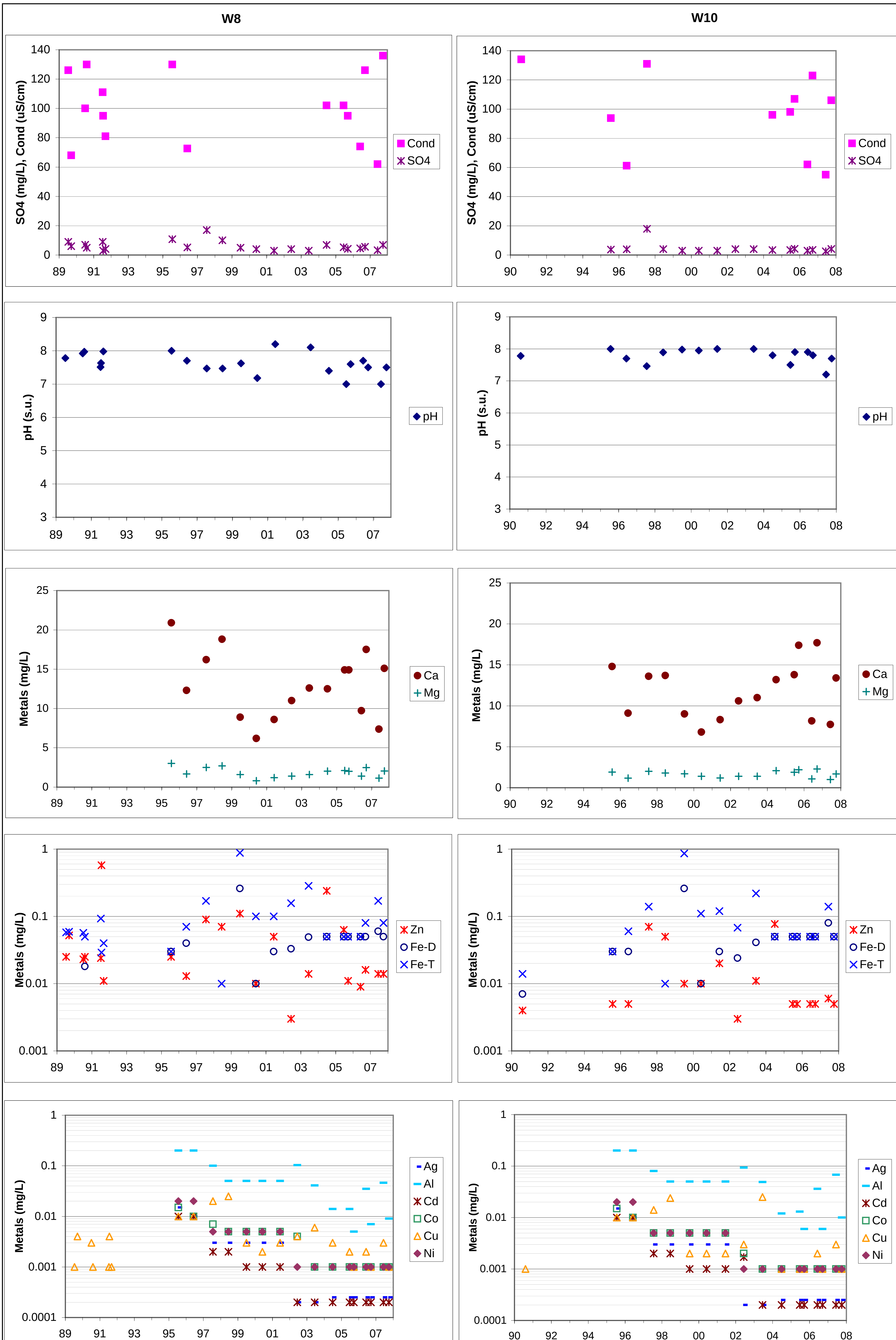
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Faro Seepage Stations
NE1, NE2, and W5

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		10



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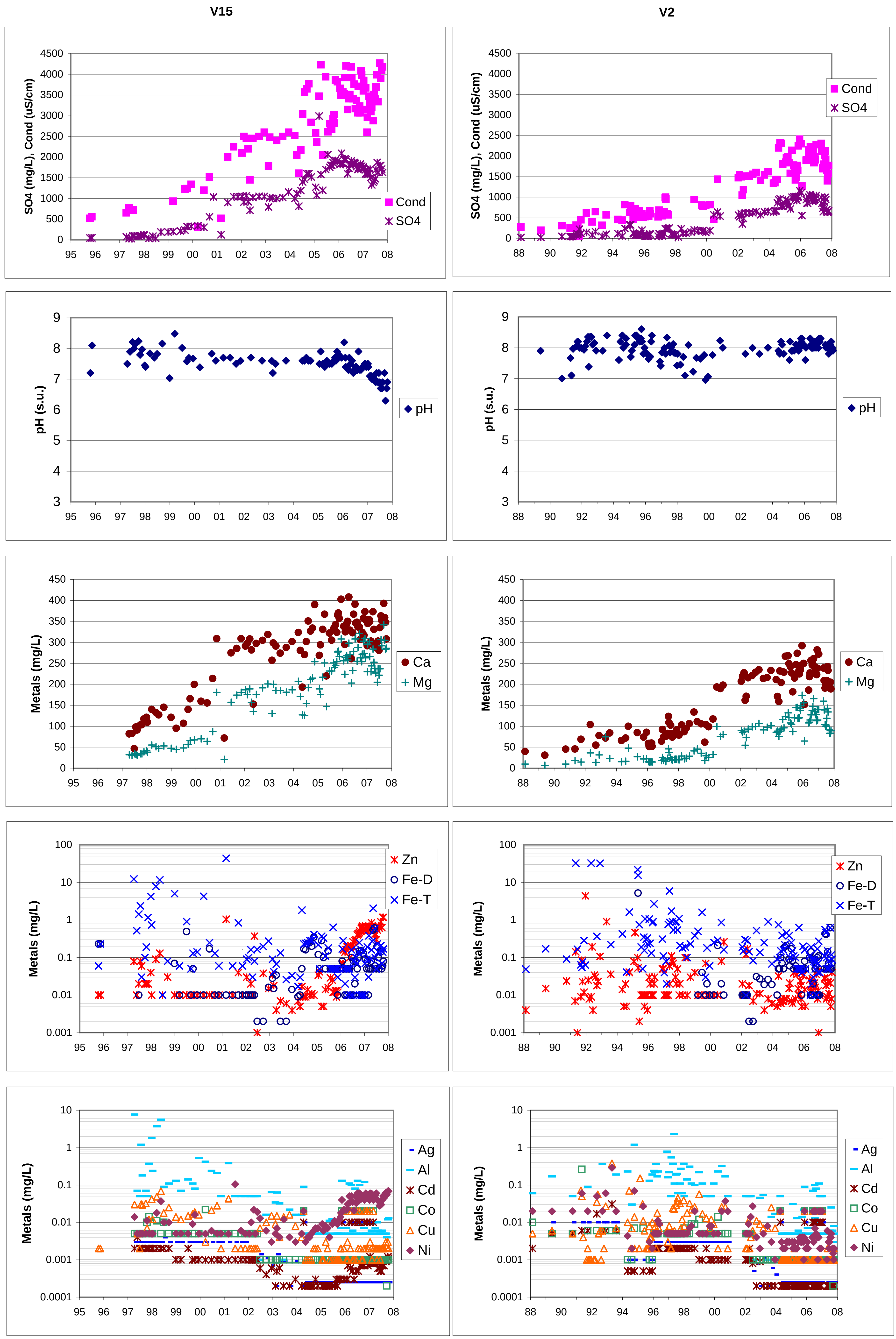
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Faro Seepage Stations
W8 and W10

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		11

Faro_Routine Graphs.2007



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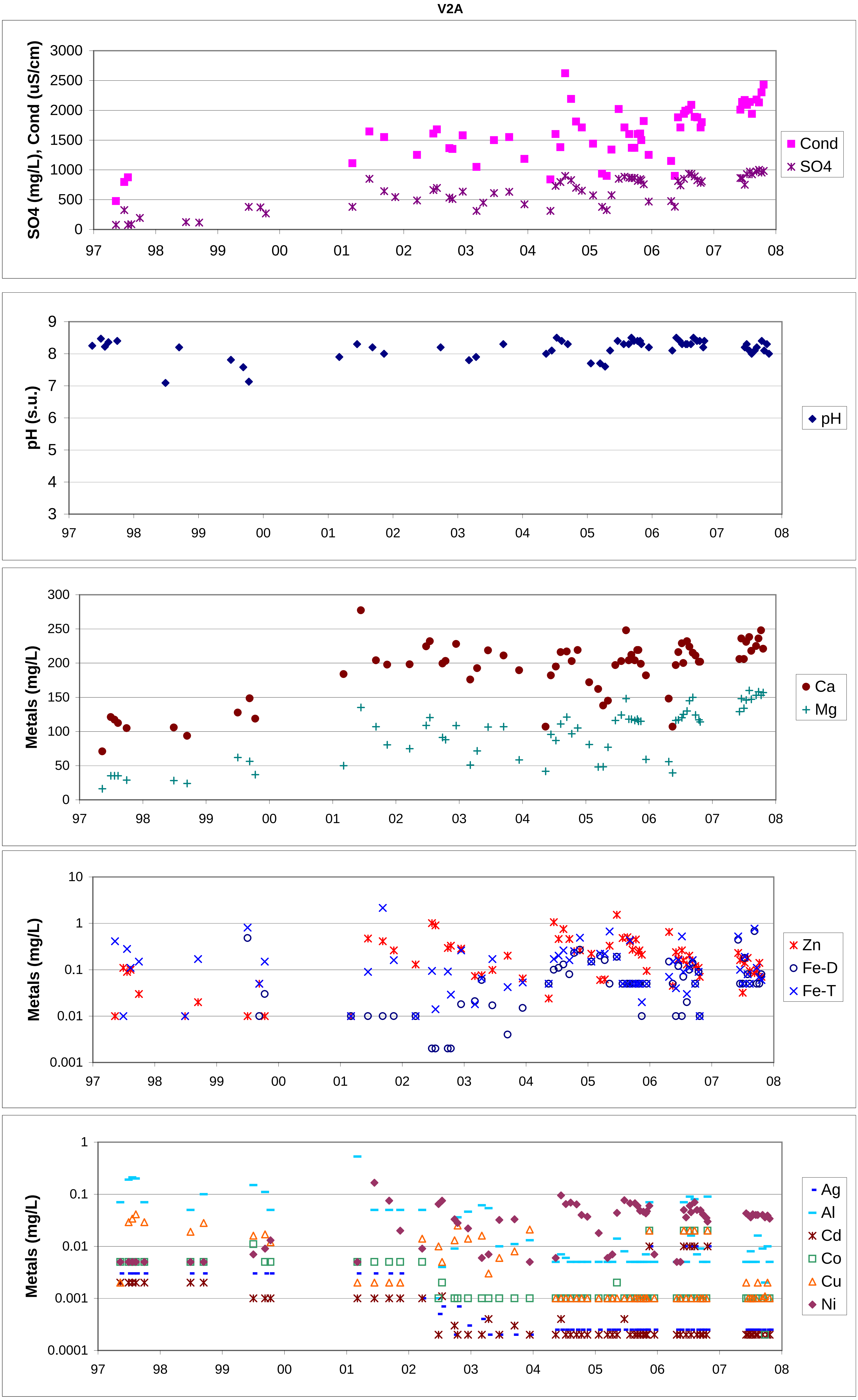
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Grum Seepage Stations
V15 and V2

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		12



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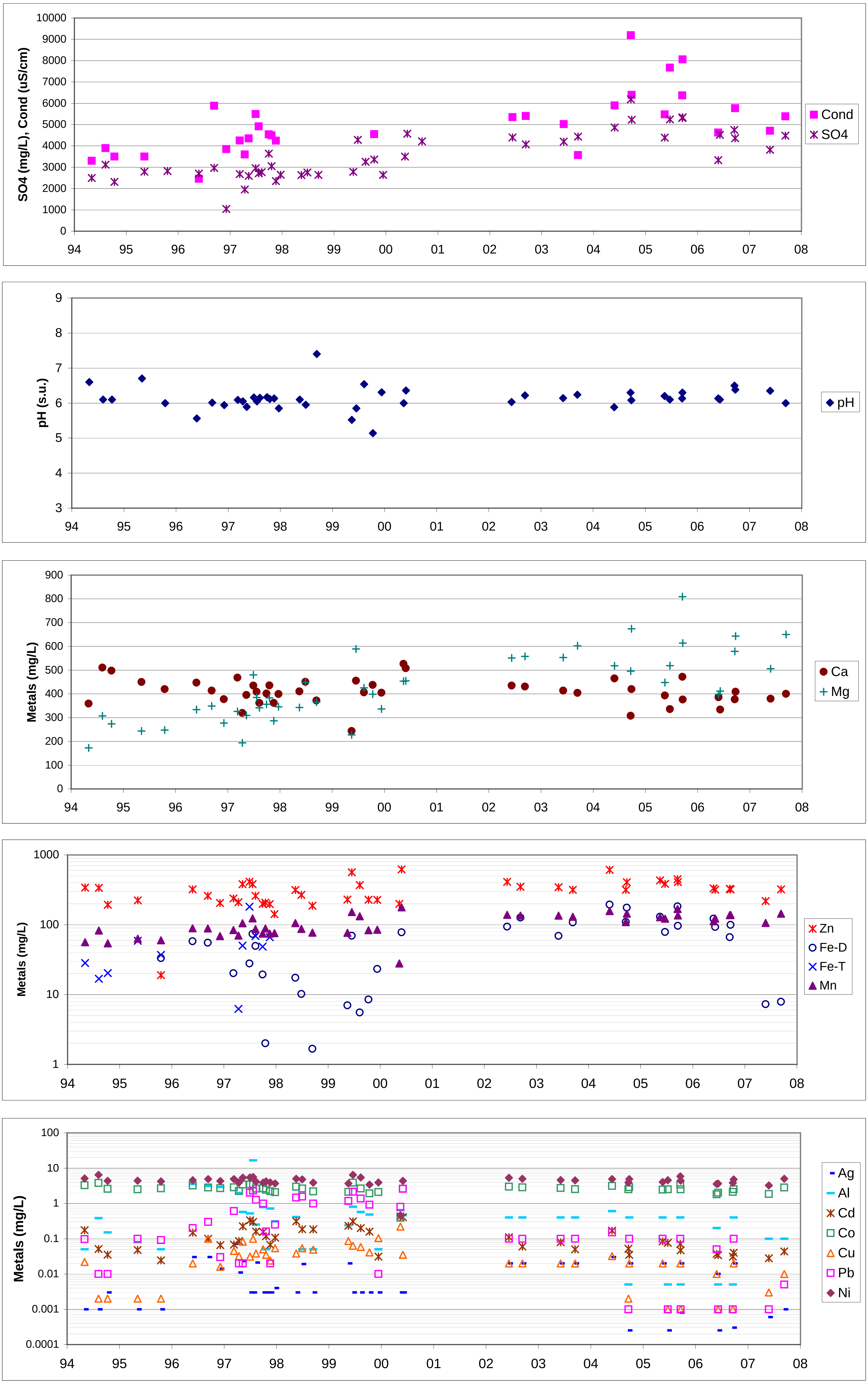
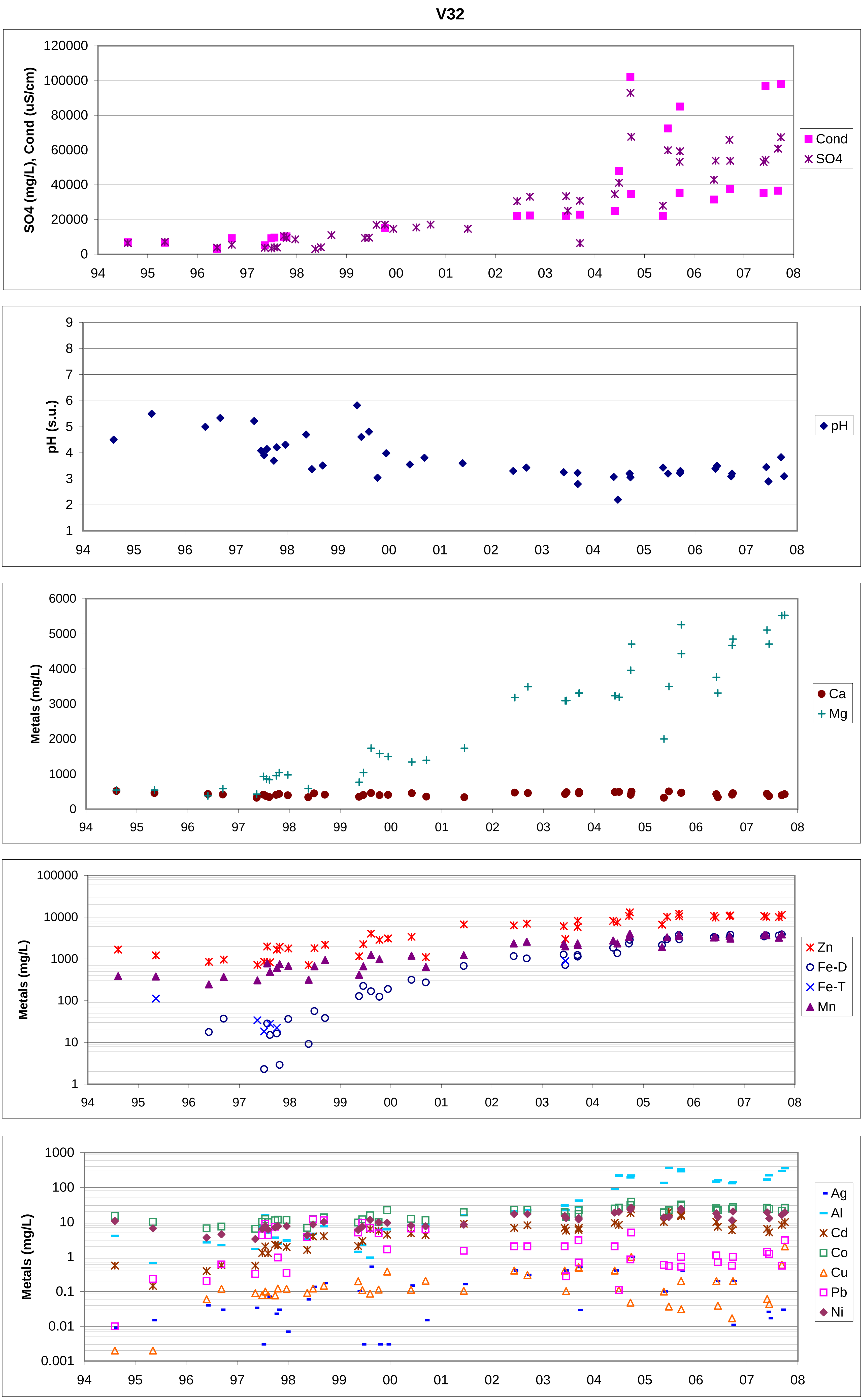
Anvil Range Mining Complex 2007 Waste Rock and Seepage Monitoring Report			
Grum Seepage Station V2A			
PROJECT 1CD003.090	DATE March 2008	APPROVED	FIGURE 13

Grum_Routine Graphs.2007

V30



SRK Consulting Engineers and Scientists	Anvil Range Mining Complex 2007 Waste Rock and Seepage Monitoring Report
	Vangorda Seepage Station V30
DELOITTE & TOUCHE INC.	PROJECT 1CD003.090 · DATE March 2008 · APPROVED · FIGURE 14



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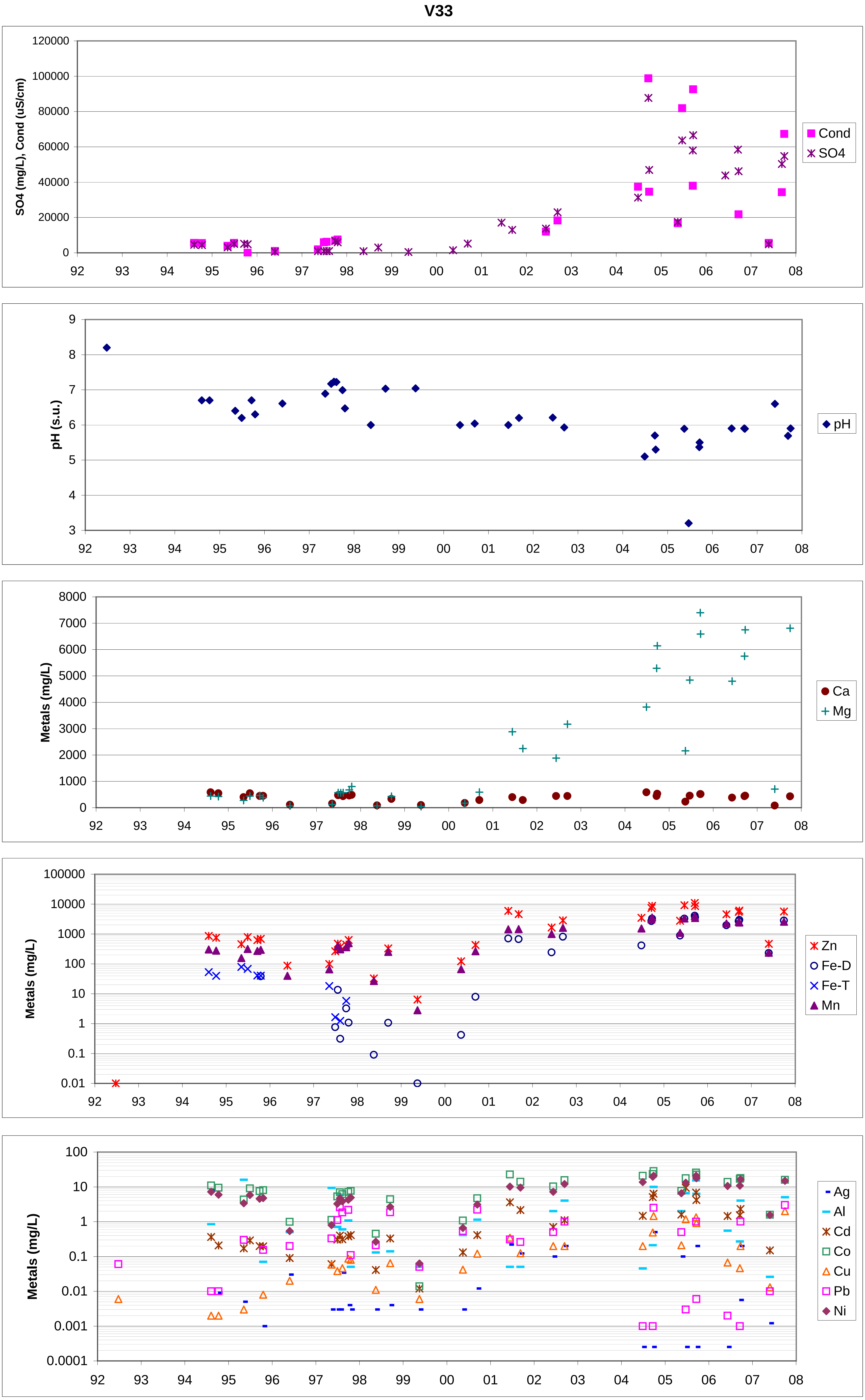
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Vangorda Seepage Station
V32

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		15



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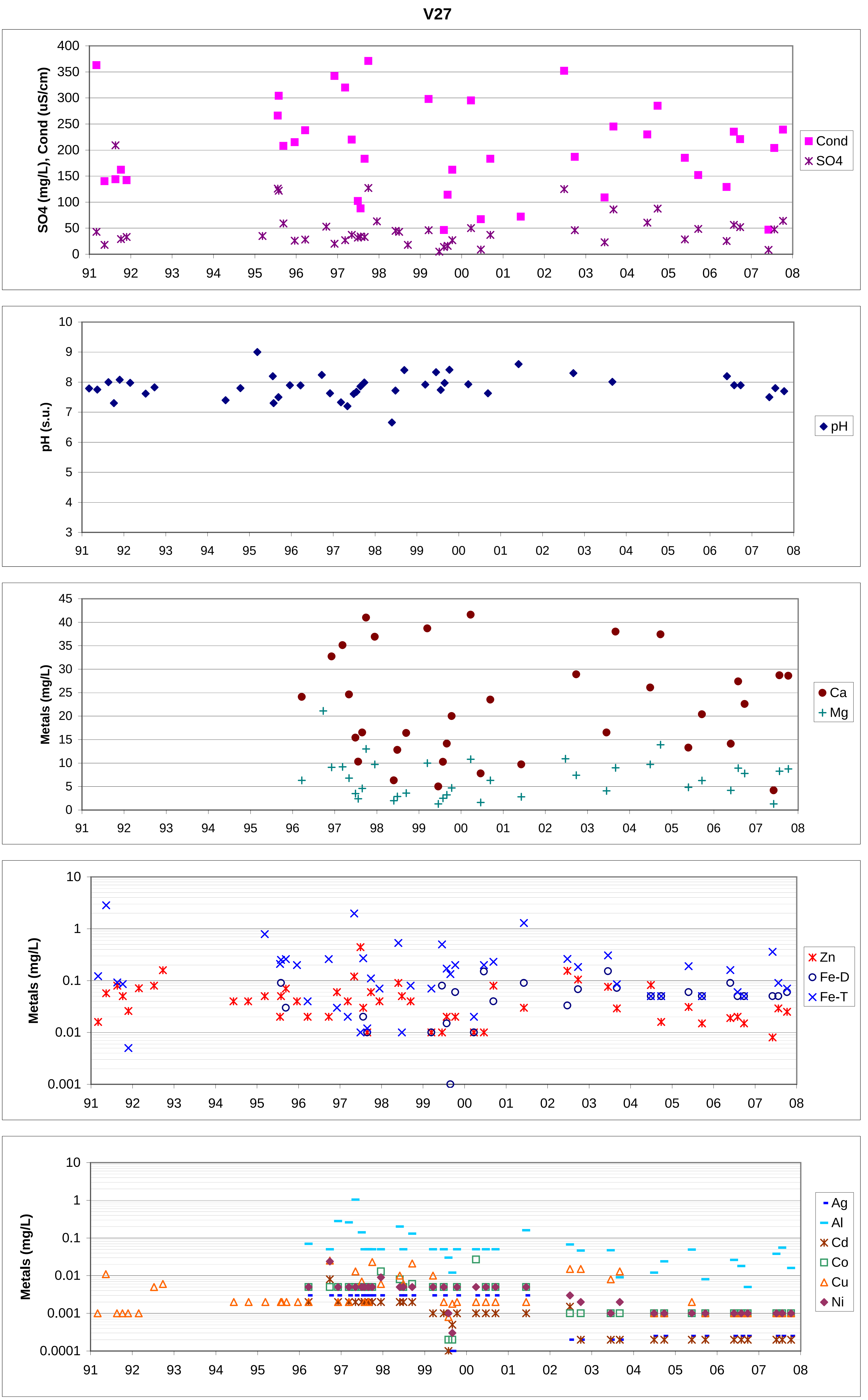
Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Vangorda Seepage Station
V33

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		16



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Anvil Range Mining Complex
2007 Waste Rock and Seepage Monitoring Report

Vangorda Water Sampling Station
V27

PROJECT	DATE	APPROVED	FIGURE
1CD003.090	March 2008		17

Appendices

Appendix A

Waste Rock Seepage Monitoring Results

Sample ID	Date Sampled	pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Cond (uS/cm)	Lab pH	Acidity (to pH 8.3) CaCO3	Alkalinity<Total CaCO3	Chloride Cl	Sulphate SO4	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50	0.20	0.20	0.20	0.010	0.0050	0.20	0.10	0.010	0.050	0.010	0.010	0.010	0.030	0.050	0.010	0.10	0.0050	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-FD01	6/10/2002	6.69	3670	13.2	139	6	3560	7.55	72	365	4.5	2220	<0.2	<0.2	<0.2	0.02	<0.005	<2	<0.1	0.02	543	<0.01	0.02	<0.01	0.36	0.23	0.03	244	3.41	<0.03	0.08	<0.3	11	<0.2	5.91	<0.01	30	2.86	<0.2	<0.03	<0.04	<0.03	34.6	2
SRK-FD01	9/11/2002	6.59	1900	4.2	212	0.5	1800	7.41	22	97	4.3	1070	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.02	272	<0.01	0.02	<0.01	0.38	0.07	0.02	87.4	2.06	<0.03	0.05	<0.3	6	<0.2	2.94	<0.01	17	1.11	<0.2	<0.03	<0.01	<0.03	13.6	2
SRK-FD01	6/4/2003	7.26	3340	13.2	198	-	3230	7.76	36	297	4.6	2260	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.02	492	<0.01	0.03	<0.01	5.02	<0.05	0.02	241	3.94	<0.03	0.06	<0.3	10	<0.2	5.46	<0.01	25	2.35	<0.2	<0.03	<0.01	<0.03	21.9	2
SRK-FD01	9/13/2003	6.97	3180	3.4	312	30	3050	7.48	70	223	3.9	1960	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	0.05	463	<0.01	0.03	0.03	2.53	0.06	0.03	214	3.09	<0.03	0.08	<0.3	7	<0.2	4.6	<0.01	28	2.27	<0.2	<0.03	<0.01	<0.03	36.8	2
SRK-FD01	5/31/2004	6.23	3580	1.9	355	200	3520	7.46	88.2	226	3.28	2410	0.24	<0.2	<0.2	0.031	<0.005	<0.2	<0.1	0.041	501	<0.01	0.038	0.054	2.8	<0.05	0.043	248	3.34	<0.03	0.119	<0.3	8.1	<0.2	5.11	<0.01	26.7	2.73	<0.3	<0.03	<0.01	<0.03	57.8	2
SRK-FD01	9/27/2004	6.93	3710	3	384	56	3560	7.4	67.4	252	<5	2370	<0.2	<0.2	<0.3	0.045	0.007	<0.2	<0.1	0.022	569	<0.01	0.015	0.02	6.29	<0.05	0.024	287	1.95	<0.03	0.088	<0.3	8.6	<0.2	5.5	<0.02	29.9	2.93	<0.2	<0.03	<0.01	<0.03	35.1	2
SRK-FD01	5/18/2005	6.48	3580	5.2	372	0.23	3440	7.50	96.9	220	<5.0	2420	0.31	<0.20	<0.20	0.034	<0.0050	<0.20	<0.10	0.045	508	<0.010	0.036	0.069	4.77	<0.050	0.035	281	3.70	<0.030	0.103	<0.30	9.7	<0.20	5.30	<0.010	34.2	2.76	<0.20	<0.030	<0.010	<0.030	60.8	2
SRK-FD01	9/16/2005	6.58	3780	3.4	374	45	3490	7.51	71.6	225	<5.0	2560	0.24	<0.20	<0.20	0.033	<0.0050	<0.20	<0.10	0.036	604	<0.010	0.037	0.027	8.30	<0.050	0.017	317	2.35	<0.030	0.126	<0.30	6.4	<0.20	5.86	<0.010	23.1	2.11	<0.20	<0.030	<0.010	<0.060	43.8	2
FD01	5/24/2006	6.93	2530	1.9	127	15	3920	6.85	121	235	3.3	2770	0.24	<0.2	<0.2	0.030	<0.005	<0.2	<0.1	0.041	519	<0.01	0.042	0.061	6.60	<0.05	0.029	318	4.19	<0.03	0.126	<0.3	9.1	<0.2	4.67	<0.01	26.7	2.77	<0.2	<0.03	<0.01	<0.03	69.2	2
FD-01	9/21/2006	6.92	2520	2.4	110	30.5	3380	7.73	39.5	249	<10	2300	<0.20	<0.20	<0.20	0.033	<0.0050	<0.20	<0.10	0.016	434	<0.010	0.020	0.013	5.86	<0.050	0.027	245	1.15	<0.030	0.077	<0.30	6.6	<0.20	4.50	<0.010	29.9	2.03	<0.20	<0.10	<0.010	<0.030	22.0	2
FD-01	5/29/2007	7.32	2540	3.3	205	50	5240	7.41	129	301	3.4	2810	0.03	0.0004	0.0017	0.032	<0.0002	<0.0002	<0.01	0.032	619	<0.0002	0.030	0.024	4.73	0.021	0.030	373	3.47	0.0008	0.109	<0.03	9.1	0.0049	6.02	0.00012	25.0	3.47	0.0005	<0.0002	0.0004	<0.0002	54.9	2
FD-01	9/13/2007	7.13	3320	3.7	51	60	3130	7.66	61.1	233	<50	2110	0.117	<0.001	<0.001	0.032	<0.005	<0.005	<0.1	0.021	469	<0.005	0.023	0.021	5.22	0.00618	<0.05	259	1.50	<0.0005	0.098	<0.3	7.9	<0.01	5.22	<0.0001	34.2	2.46	<0.001	<0.001	0.011	<0.01	30.4	2
SRK-FD02	6/10/2002	7.88	1558	1.6	248	20	1520	8.2	4	165	1.2	704	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	248	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	40.5	0.028	<0.03	<0.05	<0.3	5	<0.2	4.5	<0.01	96	1.4	<0.2	<0.03	<0.01	<0.03	0.166	1
SRK-FD02B	9/13/2003	7.55	1320	5.9	421	Trace	1230	8	14	155	0.9	597	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	0.01	223	<0.01	<0.01	0.01	<0.03	0.15	0.01	26.8	0.422	<0.03	<0.05	<0.3	4	<0.2	3.92	<0.01	28	0.927	<0.2	<0.03	<0.01	<0.03	5.27	1
SRK-FD04	6/10/2002	2.32	23500	17.3	460	No Flow	22600	2.33	39900	<1	240	43300	857	<8	87	<0.4	<0.2	<10	<4	14.4	504	1.1	9.8	559	9170	<2	0.8	1000	811	<2	6	<20	<80	<8	82	<0.6	<80	0.5	<20	<2	<0.4	<2	9210	3
SRK-FD04	9/11/2002	2.54	7350	6.2	460	ponded	6370	2.7	5780	<1	78	7490	137	<1	9	<0.05	<0.03	<1	<0.5	1.68	160	0.22	1.38	55.4	1420	<0.3	0.2	190	125	<0.2	0.8	<2	<10	<1	16.4	<0.05	<10	0.22	<1	<0.2	<0.05	<0.2	1230	3
SRK-FD04	9/13/2003	2.39	34400	5	600	None	32300	2.38	49500	<1	1050	59000	986	<10	17	<0.5	<0.3	<10	<5	15.5	398	0.9	11.3	132	15100	<3	1.3	2220	448	<2	9	22	<100	<10	39	<0.5	<100	<0.3	<10	<2	<0.5	<2	10900	3
SRK-FD04B	6/6/2003	2.24	22000	15.6	613	0	21900	2.4	28700	<1	<0.5	32300	27	<10	<10	<0.5	<0.3	<10	<5	7	449	<0.5	20	<0.5	1300	<3	<0.5	3210	2360	<2	15	<20	<100	<10	23	<0.5	<100	0.9	<10	<2	<0.5	<2	6380	3
SRK-FD05	6/12/2002	7.23	1252	1.2	317	10	1240	7.87	16	215	2.4	440	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	151	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	90	0.057	<0.03	0.06	<0.3	5	<0.2	5.74	<0.01	8	0.64	<0.2	<0.03	<0.01	<0.03	2.15	1
SRK-FD05	9/10/2002	6.97	882	1.9	225	60	875	7.65	18	172	1.3	266	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	104	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	53.4	<0.005	<0.03	<0.05	<0.3	3	<0.2	5.29	<0.01	5	0.439	<0.2	<0.03	<0.01	<0.03	1.08	1
SRK-FD05B	6/5/2003	7.1	1664	1.3	473	Abundant	1590	7.72	17	241	2	774	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.01	174	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	150	0.193	<0.03	0.06	<0.3	5	<0.2	5.48	<0.01	9	0.734	<0.2	<0.03	<0.01	<0.03	4.51	1
SRK-FD05C	9/12/2003	7.75	1161	8.8	361	30	1150	8.2	3	190	1.9	427	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.01	153	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	68.9	<0.005	<0.03	<0.05	<0.3	3	<0.2	5.29	<0.01	7	0.701	<0.2	<0.03	<0.01	<0.03	0.526	1
SRK-FD05	5/27/2004	7.12	1239	1.4	349	30	1270	7.89	11.7	228	1.72	428	<0.2	<0.2	<0.2	0.039	<0.005	<0.2	<0.1	<0.01	131	<0.01	<0.01	<0.01	<0.03	<0.05	0.037	87.9	0.438	<0.03	<0.05	<0.3	4.2	<0.2	5.22	<0.01	6.7	0.571	<0.2	<0.03	<0.01	<0.03	2.33	1
SRK-FD05	9/24/2004	7.31	935	3.4	307	82	885	8.02	3.8	203	<2.5	270	<0.2	<0.2	<0.2	0.024	<0.005	<0.2	<0.1	<0.01	94.6	<0.01	<0.01	<0.01	<0.03	<0.05	0.018	57	<0.005	<0.03	<0.05	<0.3	4.3	<0.2	5.57	<0.01	5	0.418	<0.2	<0.03	<0.01	<0.03	1.36	1
SRK-FD05	5/18/2005	6.95		2.6		120	1160	7.81	8.5	220	0.98	416	<0.20	<0.20	<0.20	0.035	<0.0050	<0.20	<0.10	<0.010	119	<0.010	<0.010	<0.010	<0.030	<0.050	0.022	97.3	<0.0050	<0.030	<0.050	<0.30	3.3	<0.20	5.11	<0.010	5.4	0.447	<0.20	<0.030	<0.010	<0.030	4.21	1
SRK-FD05	9/13/2005	7.18	844	5.6	352	26	810	7.92	5.3	168	0.76	270	<0.20	<0.20	<0.20	0.024	<0.0050	<0.20	<0.10	<0.010	92.1	<0.010	<0.010	<0.010	<0.030	<0.050	0.023	59.8	<0.0050	<0.030	<0.050	<0.30	2.5	<0.20	4.86	<0.010	4.4	0.368	<0.20	<0.030	<0.010	<0.030	1.38	1
FD-05	9/20/2006	7.1	818	2.4	309	35.5	799	7.94	4.6	179	0.76	246	<0.20	<0.20	<0.20	0.022	<0.0050	<0.20	<0.10	<0.010	79.3	<0.010	<0.010	<0.010	<0.030	<0.050	0.017	50.4	<0.0050	<0.030	<0.050	<0.30	2.3	<0.20	4.65	<0.010	4.0	0.317	<0.20	<0.030	<0.010	<0.030	1.66	1
FD-05B	5/28/2007	7.56	653	1.1	273	trace	610	7.46	8	106	0.75	217	0.006	<0.0002	0.0004	0.028	<0.0002	<0.0002	<0.01	0.00046	61.4	<0.0002	0.0028	0.0017	0.02	0.0003	0.016	47.5	0.493	0.0003	0.021	<0.03	2.89	0.0007	2.64	<0.00005	3.39	0.267	0.00008	<0.0002	<0.0002	<0.0002	0.99	1
FD-05	9/13/2007	7.09	920	3.7	87	10	911	6.94	21.3	174	0.95	324	0.0021	<0.0002	<0.0002	0.0265	<0.001	<0.001	<0.02	0.00104	105	<0.001	<0.0002	0.00162	<0.03	0.00017	0.019	69.9	0.00029	0.00013	0.0163	<0.3	3.2	<0.002	5.49	<0.00002	5.7	0.405	<0.0002	<0.0002	<0.01	<0.002	1.06	1
SRK-FD06	6/12/2002	7.21	1118	1.5	217	10	1110	7.97	12	209	2.4	382	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	112	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	85.3	0.036	<0.03	<0.05	<0.3	4	<0.2	5.3	<0.01	7	0.466	<0.2	<0.03	<0.01	<0.03	2.79	1
SRK-FD06B	9/10/2002	7.24	1045	2.2	324	240	1020	7.85	14	191	1.1	355	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	95.7	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	86.9	<0.005	<0.03	<0.05	<0.3	3	<0.2	5.37	<0.01	5	0.42	<0.2	<0.03	<0.01	<0.03	2.04	1
SRK-FD06C	9/12/2003	7.15	1745	2	412	120	1410	8.1	7	211	2.1	593	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	138	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	131	<0.005	<0.03	<0.05	<0.3	4	<0.2	5.45	<0.01	7	0.637	<0.2	<0.03	<0.01	<0.03	1.98	1
FD06B	5/24/2006	7.3	2330	0.3	159	trace	2330	7.7	30.7	322	<2.5	1160	<0.2	<0.2	<0.2	0.054	<0.005	<0.2	<0.1	<0.01	201	<0.01	<0.01	<0.01	<0.03	<0.05	0.033	213	0.0193	<0.03	0.121	<0.3	5.2	<0.2	5.43	<0.01	9	0.837	<0.2	<0.03	<0.01	<0.03	14.4	1
FD-06	5/28/2007	7.77	567	1	28	trickle	557	7.51	4	84.6	0.62	207	0.002	<0.0002	0.0005	0.015	<0.0002	<0.0002	<0.01	0.001	54	<0.0002	0.0022	0.0016	0.01	0.0003	0.008	44.9	0.42	0.0002	0.014	<0.03	2.19	0.0005	1.72	<0.00005	2.16	0.214	0.0001	<0.0002	<0.0002	<0.0002	1.41	1
FD-06	9/13/2007	7	1410	4.1	98	5	1390	7.71	12.1	218	1.31	605	<0.002	<0.0002	<0.0002	0.02	<0.001	<0.001	<0.02	0.0027	118	<0.001	<0.0002	0.00209	<0.03	0.00024	0.025	143	0.00015	<0.0001	0.034	<0.3	3.8	<0.002	5.77	<0.00002	7	0.518	<0.0002	<0.0002	<0.01	<0.002	3.01	1
SRK-FD07	6/12/2002	7.31	1050	2.4	260	No Flow	1020	7.89	13	125	0.8	484	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	<0.01	97.8	<0.01	0.01	<0.01	<0.03	<0.05	0.13	69.8	0.278	<0.03	<0.05	<0.3	8	<0.2	1.15	<0.01	25	1.06	<0.2	<0.03	<0.01	<0.03	3.89	1
SRK-FD08	6/12/2002	5.76	2560	8.9	188	No Flow	1540	7.32	24	22	0.8	995	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	166	<0.01	<0.01	<0.01	0.07	<0.05	<0.01	114	0.188	<0.03	0.06	<0.3	3	<0.2	6.27	<0.01	5	0.473	<0.2	<0.03	<0.01	<0.03	3.88	2
SRK-FD09	6/12/2002	6.98	2560	5.9	235	No Flow	2450	7.12	61	54	1.8	1710	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.01	216	<0.01	0.03	0.01	0.05	0.1	0.08	284	0.844	<0.03	0.16	<0.3	13	<0.2	3.07	<0.01	7	0.758	<0.2	<0.03	<0.01	<0.03	26.4	2
SRK-FD10	6/12/2002	6.17	5720	4.9	87	80	5440	6.36	434	350	17.5	4380	<0.2	<0.2	<0.2	0.02	<0.005	<0.3	<0.1	0.05	538	<0.01	0.47	<0.01	37	<0.05	0.18	686	54	<0.03	0.66	<0.3	17	<0.2	7.59	<0.02	69	3.86	<0.4	0.03	<0.01	<0.03	215	2
SRK-FD10	9/10/2002	6.25	7780	5.3	145	300	5440	6.58	578	319	17.5	4600	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.02	552	<0.02	0.45	<0.02	57.8	<0.1	0.13	630	53.9	<0.06	0.6	<0.6	15	<0.4	7.3	<0.02	60	3.67	<0.4	<0.06	<0.02	<0.06	223	2
SRK-FD12	6/12/2002	6.42	5760	5.5	81	2.4	5560	6.98	420	338	15	4480	<0.2	<0.2	<0.2	0.02	<0.005	<0.3	<0.1	0.16	542	<0.02	0.47	0.3	23.4	<0.05	0.15	682	50.4	<0.03	0.72	<0.3	16	<0.2	7.46	<0.02	57	3.55	<0.3	0.03	<0.01	<0.03	231	2
SRK-FD12	9/10/2002	6.24	5740	5.2	173	120	5400	6.91	519	320	14.4	4220	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.08	563	<0.02	0.43	0.11	35.7	<0.1	0.12	627	49.1	<0.06	0.7	<0.6	13	<0.4	7.3	<0.02	50	3.48	<0.4	<0.06	<0.02	<0.06	219	2
SRK-FD12	5/18/2005	6.05	7320	7.4	295		7060	6.18	813	112	19	6280	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.255	485	0.033	1.06	0.779	99.7	<0.10	0.200	794	76.5	<0.060	1.43	<0.60	14.0	<0.40	7.28	<0.020	52.3	3.28	<0.40	<0.060	<0.020	0.099	527	2
SRK-FD12	9/13/2005	6.68	7010	9	293		6310	6.35	755	160	15	5640	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.106	457	<0.020	0.896	0.028	135	<0.10	0.199	803	79.6	<0.060	1.08	<0.60	15.0	<0.40	6.97	<0.020	58.7	3.27	<0.60	<0.060	<0.020	<0.060	472	2
FD12	5/25/2006	5.76	6920	6.3	277	diffuse	6630	6.40	895	310	3.07	5540	0.78	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.324	473	<0.02	0.921	1.95	114	<0.1	0.178	811	85.7	<0.06	1.09	<0.6	16.6	<0.4	7.93	<0.02	60.9	3.84	<0.4	<0.06	<0.02	<0.06	584	3
FD-12	9/24/2006	6.38	6550	6.5		4	6110	6.95	490	202	<25	4930	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.045	477	<0.020	0.708	0.023	91.3	<0.10	0.158	777	71.6	<0.060	0.85	<0.60	13.6	<0.40	6.71	<0.020	64.0	3.17	<0.40	0.313	<0.020	0.067	301	2
FD-12	5/29/2007	6.5	6540	4.6	212	2	7340	6.43	770	218	18	5320	0.002	<0.0002	0.0014	0.014	<0.0002	<0.0002	<0.01	0.05883	495	<0.0002	0.617	0.028	58.9	0.0012	0.15	834	71.2	0.0083	0.672	<0.03	16.2	0.0047	8.01	0.00063	57.4	4.35	0.0015	<0.0002	0.0007	<0.0002	331	2
FD-12	9/14/2007	6.16	6300	4.6	38	1.5	5920	7	413	311	<50	5000	<0.05	<0.005	<0.005	0.0156	<0.025	<0.025	<0.5	0.0435	473	<0.025	0.699	0.0163	38.7	<0.0025	<0.25	796	72.6	<0.0025	0.818	<0.6	16.3	<0.05	7.2	<0.0005	62.3	4.13	<0.005	<0.005	<0.02	<0.05	255	2
SRK-FD13	6/12/2002	3.23	5670	15.5	382	-1	5460	3.36	1720	<1	0.7	4780	21.7	<0.6	<0.6	<0.03	0.02	<0.9	<0.3	0.85	299	<0.03	1.53	4.54	284	1.6	0.29	502	64.3	<0.09	3.2	<0.9	12	<0.6	7.8	<0.03	12	0.69	<0.6	<0.09	<0.03	<0.09	751	3
SRK-FD13	9/12/2002	4.52	2990	8.1	400	slight	2960	4.72	200	12	<0.5	2090	0.3	<0.2	<0.2	<0.01	<0.005	<0.6	<0.1	0.1	268	<0.01	0.28	0.12	0.45	0.31	0.18	319	12.6	<0.03	0.76	<0.3	13	<0.2	1.76	<0.01	36	1.01	<0.2	<0.03	<0.01	<0.03	96.5	3
SRK-FD13	6/5/2003	5.91	2820	12.8	477	0	2710	6.93	177	21	<0.5	2290	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.12	277	<0.01	0.3	0.04	0.13	0.24	0.14	255	14.9	<0.03	0.68	<0.3	12	<0.2	2.43	<0.01	13	0.811	<0.2	<0.03	<0.01	<0.03	112	3
SRK-FD13	5/26/2004	not recorded	5370	not recorded	638	4	5170	2.83	2760	<1	1.15	4500	40.7	<1	<1	<0.05	<0.025	<1	<0.5	0.967	104	0.085	1.31	7.49	550	<0.25	0.156	356	60.3	<0.15	2.19	<1.5	<10	<1	5	<0.05	<10	0.233	<1	<0.15	<0.05	<0.15	877	3
SRK-FD13	5/16/2005	3.84	1278	5	508	4	1560	3.52	179	<2.0	<5.0	860	3.05	<0.20	<0.20	0.015	<0.0050	<0.20	<0.10	0.114	96.7	<0.010	0.155	1.07	19.7	0.443	0.051	109	6.08	<0.030	0.358	<0.30	3.5	<0.20	1.43	<0.010	2.2	0.254	<0.20	<0.030	<0.010	<0.030	83.3	3
SRK-FD13	9/15/2005	3.75	4390	11.5	626	Trace	4150	3.96	122	6.9	<5.0	3160	1.10	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.059	303	<0.010	0.265	0.325	3.83	0.335	0.388	449	9.11	<0.030	0.939	<0.30	19.8	<0.20	2.48	<0.010	114	1.68	<0.20	<0.030	<0.010	<0.070	59.4	3
FD13	5/24/2006	3.98	1699	0.6	312	2	1820	3.68	353	<2	<2.5	1130	2.59	<0.2	<0.2	0.015	<0.005	<0.2	<0.1	0.170	85.4	<0.01	0.225	1.47	24.3	0.162	0.077	133	9.06	<0.03	0.756	<0.3	5.0	<0.2	1.33	<0.01	2.2	0.285	<0.2	<0.03	<0.01	<0.03	185	3
FD-13	5/28/2007	4.8	2440	4.7	474	trace	3650	3.60	590	<0.5	<2	2420	5.90	<0.001	0.003	0.007	0.007	<0.001	<0.05	0.317	174.0	<0.001	0.420	1.02	18.9	0.710	0.140	291	23.60	0.0023	1.040	<0.15	6.9	0.006	3.70	0.0007	8.1	0.500	0.0019	<0.001	<0.001	<0.001	329	3
FD-13	9/10/2007	7.59	2590	5.3	400	20	3070	3.51	476	<2	<50	2300	7.52	<0.01	<0.01	0.011	<0.05	<0.05	<1	0.227	212.0	<0.05	0.508	1.01	37.2	1.300	<0.5	285	23.70	<0.005	1.330	<0.3	11.6	<0.1	4.46	<0.001	20.8	0.993	<0.01	<0.01	<0.01	<0.1	257	3
SRK-FD14	6/12/2002	8.14	2740	15.3	241	-1	2860	7.7	24	112	1.3	2260	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	223	<0.01	<0.01	<0.01	<0.03	<0.05	0.23	314	0.041	<0.03	0.07	<0.3	24	<0.2	0.8	<0.01	122	3.32	<0.3	<0.03	<0.01	<0.03	1.72	1
SRK-FD14	9/12/2002	7.78	3400	9.4	275	3	3360	8.23	8	137	<0.5	2470	<0.2	<0.2	<0.2	<0.01	<0.005	<0.8	<0.1	<0.01	263	<0.01	<0.01	<0.01	<0.03	<0.05	0.2	378	0.014	<0.03	0.09	<0.3	21	<0.2	0.87	<0.01	119	3.75	<0.2	<0.03	<0.01	<0.03	4.95	1
SRK-FD14B	6/6/2003	6.92	1499	8.8	643	0.6	2030	7.7	15	85	<0.5	1420	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.02	146	<0.01	0.02	0.06	0.89	<0.05	0.11	156	0.363	<0.03	0.05	<0.3	9	<0.2	1.08	<0.01	122	1.23	<0.2	<0.03	<0.01	<0.03	11.2	2
SRK-FD14	5/26/2004	7.13	1090	12	395	1.75	1100	8.08	3	76.1	<0.5	513	<0.2	<0.2	<0.2	0.018	<0.005	<0.2	<0.1	<0.01	71.5	<0.01	<0.01	<0.01	<0.03	<0.05	0.05	88	0.116	<0.03	0.056	<0.3	7.9	<0.2	0.491	<0.01	23	1.05	<0.2	<0.03	<0.01	<0.03	1.01	1
SRK-FD14	5/16/2005	7.69	2250	9.5	336	1.9	2250	7.93	5.0	117	<5.0	1360	<0.20	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	<0.010	165	<0.010	0.012	<0.010	<0.030	<0.050	0.102	223	0.420	<0.030	0.068	<0.30	10.3	<0.20	0.591	<0.010	52.5	2.05	<0.20	<0.030	<0.010	0.049	2.48	1
SRK-FD14	9/15/2005	7.05	2530	6.2	597	Trace	2850	7.89	7.0	147	<5.0	1800	<0.20	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	<0.010	207	<0.010	<0.010	<0.010	<0.030	<0.050	0.193	230	<0.0050	<0.030	0.075	<0.30	16.1	<0.20	0.726	<0.010	150	3.24	<0.20	<0.030	<0.010	<0.050	3.52	1
FD14	5/24/2006	6.55	1876	11.2	156	trace	1830	7.64	9.5	118	<2.5	1040	<0.2	<0.2	<0.2	0.010	<0.005	<0.2	<0.1	<0.01	152	<0.01	<0.01	<0.01	<0.03	<0.05	0.105	168	0.253	<0.03	0.053	<0.3	13.8	<0.2	0.737	<0.01	52.6	2.12	<0.2	<0.03	<0.01	<0.03	1.98	1
FD-14	9/14/2007	6.02	2580	4.7	297	trace	2530	8	8.4	163	<0.5	1450	0.0036	0.00065	0.0007	0.00605	<0.001	<0.001	<0.02	0.00529	186	<0.001	0.0002	<0.004	0.05	0.00388	0.154	219	0.0103	0.00218	0.0573	<0.3	17	0.0021	0.775	<0.00002	126	2.22	0.00107	<0.0002	<0.01	<0.002	3.38	1

Sample ID	Date Sampled	pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Cond (uS/cm)	Lab pH	Acidity (to pH 8.3) CaCO3	Alkalinity<Total CaCO3	Chloride Cl	Sulphate SO4	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50	0.20	0.20	0.20	0.010	0.0050	0.20	0.10	0.010	0.050	0.010	0.010	0.010	0.030	0.050	0.010	0.10	0.0050	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-FD16	6/13/2002	6.61	84	2.1	298	300	82	7.79	9	37	<0.5	10	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	12.9	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	1.9	<0.005	<0.03	<0.05	<0.3	<2	<0.2	5.9	<0.01	<2	0.045	<0.2	<0.03	<0.01	<0.03	0.01	1
SRK-FD16	6/5/2003	7.42	67	1.4	508	40	64	7.32	3	30	0.7	5	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	9.97	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	1.5	<0.005	<0.03	<0.05	<0.3	<2	<0.2	5.41	<0.01	<2	0.037	<0.2	<0.03	<0.01	<0.03	0.01	1
SRK-FD16	9/11/2003	7.54	125	4.1	505	240	126	8.37	<1	60	0.8	7	<0.2	<0.2	<0.2	0.05	<0.005	<0.2	<0.1	<0.01	19.6	<0.01	<0.01	<0.01	0.03	<0.05	<0.01	2.8	0.018	<0.03	<0.05	<0.3	<2	<0.2	6.75	<0.01	<2	0.071	<0.2	<0.03	<0.01	<0.03	0.013	1
SRK-FD16	5/27/2004	7.06	52	0.8	438	600	46.8	8.16	1.4	21.3	0.67	3.1	<0.2	<0.2	<0.2	0.016	<0.005	<0.2	<0.1	<0.01	7.46	<0.01	<0.01	<0.01	0.047	<0.05	<0.01	1.09	<0.005	<0.03	<0.05	<0.3	<2	<0.2	4.05	<0.01	<2	0.0271	<0.2	<0.03	<0.01	<0.03	0.0111	1
SRK-FD16	9/26/2004	6.75	146	3.9	625	90	149	7.73	4	66.8	<0.5	8.48	<0.2	<0.2	<0.2	0.064	<0.005	<0.2	<0.1	<0.01	23.6	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	3.34	0.0071	<0.03	<0.05	<0.3	<2	<0.2	6.91	<0.01	2.2	0.0875	<0.2	<0.03	<0.01	<0.03	0.0116	1
SRK-FD16	9/13/2005	7.12	126	5.1	602	60	126	8.07	2.8	49.4	<0.50	6.73	<0.20	<0.20	<0.20	0.060	<0.0050	<0.20	<0.10	<0.010	19.9	<0.010	<0.010	<0.010	0.032	<0.050	<0.010	3.14	0.0136	<0.030	<0.050	<0.30	<2.0	<0.20	6.35	<0.010	<2.0	0.0803	<0.20	<0.030	<0.010	<0.030	0.0197	1
FD16	5/23/2006	6.93	49	1.1	302	-	48.4	7.73	3.8	19.0	<0.5	3.31	<0.2	<0.2	<0.2	0.022	<0.005	<0.2	<0.1	<0.01	9.04	<0.01	<0.01	<0.01	0.101	<0.05	<0.01	1.30	<0.005	<0.03	<0.05	<0.3	<2	<0.2	2.95	<0.01	<2	0.0335	<0.2	<0.03	<0.01	<0.03	0.0149	1
FD-16	9/20/2006	7.47	123	4	206	210	122	8.09	2.2	64.4	<0.50	5.66	<0.20	<0.20	<0.20	0.060	<0.0050	<0.20	<0.10	<0.010	19.7	<0.010	<0.010	<0.010	0.032	<0.050	<0.010	2.98	0.0099	<0.030	<0.050	<0.30	<2.0	<0.20	6.19	<0.010	<2.0	0.0795	<0.20	<0.030	<0.010	<0.030	0.0169	1
SRK-FD17	6/13/2002	7.16	103	1.6	321	25.5	101	8	7	42	0.6	10	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	15.3	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	2.6	<0.005	<0.03	<0.05	<0.3	<2	<0.2	5.5	<0.01	<2	0.046	<0.2	<0.03	<0.01	<0.03	0.081	1
SRK-FD17	9/12/2002	7.35	130	3.5	316	1.5	130	7.68	4	54	<0.5	11	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.01	19.1	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	3.1	<0.005	<0.03	<0.05	<0.3	2	<0.2	6.22	<0.01	<2	0.076	<0.2	<0.03	<0.01	<0.03	0.088	1
SRK-FD18	6/13/2002	6.98	177	1.6	307		173	8.01	11	55	0.5	28	<0.2	<0.2	<0.2	0.06	<0.005	<0.2	<0.1	<0.01	26.4	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	4.6	<0.005	<0.03	<0.05	<0.3	<2	<0.2	5.35	<0.01	<2	0.095	<0.2	<0.03	<0.01	<0.03	0.102	1
SRK-FD18	9/12/2002	7.33	173	3.2	334	1.5	170	7.72	4	65	<0.5	19	<0.2	<0.2	<0.2	0.06	<0.005	<0.2	<0.1	<0.01	26.3	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	4.3	<0.005	<0.03	<0.05	<0.3	<2	<0.2	6.21	<0.01	2	0.099	<0.2	<0.03	<0.01	<0.03	0.101	1
SRK-FD18	6/5/2003	7.12	152	1.1	515	75	151	7.51	5	57	1.1	21	<0.2	<0.2	<0.2	0.06	<0.005	<0.2	<0.1	<0.01	22	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	4	<0.005	<0.03	<0.05	<0.3	<2	<0.2	5.04	<0.01	<2	0.084	<0.2	<0.03	<0.01	<0.03	0.082	1
SRK-FD18	9/11/2003	6.82	141	4	536	Trace	142	8.15	2	61	0.8	11	<0.2	<0.2	<0.2	0.08	<0.005	<0.2	<0.1	<0.01	21.9	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	3.4	<0.005	<0.03	<0.05	<0.3	<2	<0.2	6.55	<0.01	<2	0.083	<0.2	<0.03	<0.01	<0.03	0.119	1
SRK-FD18	5/27/2004	6.89	170	1.2	450	12.5	157	7.96	3.2	54.3	<0.5	28	<0.2	<0.2	<0.2	0.068	<0.005	<0.2	<0.1	<0.01	24.2	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	4.14	<0.005	<0.03	<0.05	<0.3	<2	<0.2	4.71	<0.01	<2	0.0912	<0.2	<0.03	<0.01	<0.03	0.113	1
SRK-FD18	9/26/2004	6.77	148	3.1	572	0.25	150	7.67	7.5	67.6	<0.5	9.15	<0.2	<0.2	<0.2	0.087	<0.005	<0.2	<0.1	<0.01	23.6	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	3.45	<0.005	<0.03	<0.05	<0.3	<2	<0.2	6.62	<0.01	2.1	0.0883	<0.2	<0.03	<0.01	<0.03	0.163	1
SRK-FD18	5/16/2005	7.06	205	1.5	544	30	208	7.84	3.1	71.1	<0.50	39.2	<0.20	<0.20	<0.20	0.081	<0.0050	<0.20	<0.10	<0.010	33.0	<0.010	<0.010	0.010	<0.030	<0.050	<0.010	5.73	<0.0050	<0.030	<0.050	<0.30	<2.0	<0.20	4.38	<0.010	<2.0	0.123	<0.20	<0.030	<0.010	<0.030	0.137	1
SRK-FD18	9/13/2005	6.83	149	5	671	60	149	7.97	3.1	55.9	<0.50	12.3	<0.20	<0.20	<0.20	0.073	<0.0050	<0.20	<0.10	<0.010	21.8	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	3.64	<0.0050	<0.030	<0.050	<0.30	<2.0	<0.20	5.26	<0.010	<2.0	0.087	<0.20	<0.030	<0.010	<0.030	0.102	1
FD18	5/23/2006	6.91	164	1.2	324	22	164	7.46	5.3	52.6	<0.5	29.8	<0.2	<0.2	<0.2	0.086	<0.005	<0.2	<0.1	<0.01	24.0	<0.01	<0.01	0.016	0.059	<0.05	<0.01	4.66	0.0105	<0.03	<0.05	<0.3	<2	<0.2	4.51	<0.01	2.1	0.111	<0.2	<0.03	<0.01	<0.03	0.111	1
FD-18	9/20/2006	7.06	138	3.8	222	6	138	7.89	3.4	68.8	<0.50	8.83	<0.20	<0.20	<0.20	0.084	<0.0050	<0.20	<0.10	<0.010	21.7	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	3.53	<0.0050	<0.030	<0.050	<0.30	<2.0	<0.20	5.93	<0.010	<2.0	0.0881	<0.20	<0.030	<0.010	<0.030	0.129	1
FD-18	5/29/2007	7.55	149	1.4	374	20	145	7.29	19.0	49.9	0.28	23.00	0.022	<0.0002	0.0003	0.058	<0.0002	<0.0002	<0.01	0.0003	24.3	<0.0002	<0.0002	0.011	0.02	0.0038	0.002	4.28	0.0009	0.0005	0.0011	<0.03	1.1	<0.0002	4.97	<0.00005	1.45	0.0840	0.00008	<0.0002	0.0005	<0.0002	0.13	1
FD-18	9/13/2007	6.15	170	3.9	166	15	168	7.20	7.1	71.6	<0.5	17.20	0.0064	<0.0001	0.00013	0.070	<0.0005	<0.0005	<0.01	0.000314	25.5	<0.0005	<0.0001	0.00364	<0.03	0.00321	<0.005	4.26	0.000644	0.000666	0.00077	<0.3	<2	<0.001	6.50	<0.00001	2.1	0.0877	<0.0001	<0.0001	<0.01	<0.001	0.118	1
SRK-FD19	6/13/2002	6.98	5030	0	259	30	4710	7.52	91	394	2	3380	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.01	595	<0.01	0.06	<0.01	0.06	<0.05	0.03	584	16.5	<0.03	0.35	<0.3	11	<0.2	6.44	<0.01	22	3.28	<0.3	<0.03	<0.01	<0.03	43.9	2
SRK-FD19	9/11/2002	6.87	5110	0.2	283	30	4900	7.21	115	386	1.6	3810	<0.4	<0.4	<0.4	0.04	<0.01	<0.4	<0.2	<0.02	628	<0.02	0.06	0.12	2.94	<0.1	0.03	574	19.3	<0.06	0.3	<0.6	10	<0.4	6.3	<0.02	20	3.29	<0.4	<0.06	<0.02	<0.06	51.3	2
SRK-FD19	6/6/2003	7.32	3550	1.3	444	30	4710	7.76	68	407	2.3	3670	<0.2	<0.2	<0.2	0.04	<0.005	<0.4	<0.1	<0.01	584	<0.01	0.04	<0.01	0.07	<0.05	0.03	536	16.1	<0.03	0.27	<0.3	9	<0.2	5.95	<0.01	18	2.95	<0.2	<0.03	<0.01	<0.03	40.8	2
SRK-FD19B	9/13/2003	7.25	5240	0.3	470	5.2	5070	7.75	67	403	2.5	3860	<0.2	<0.2	<0.2	0.05	<0.005	<0.5	<0.1	<0.01	598	<0.01	0.06	<0.01	0.07	<0.05	0.02	538	19.2	<0.03	0.3	<0.3	8	<0.2	6.23	<0.02	18	3.02	<0.2	<0.03	<0.01	<0.03	44.9	2
SRK-FD19	5/27/2004	6.65	4340	0.2	397	150	3940	7.45	90.3	279	1.55	3070	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.028	456	<0.01	0.128	0.016	<0.03	<0.05	0.062	484	11.7	<0.03	0.341	<0.3	9	<0.2	4.3	<0.01	19.7	3	<0.2	<0.03	<0.01	<0.03	52.9	2
SRK-FD19	9/26/2004	6.44	5690	1.1	461	0.1	5470	7.51	114	406	<10	4110	<0.2	<0.2	<0.2	0.059	<0.005	<0.4	<0.1	<0.02	617	<0.01	0.057	<0.01	0.125	<0.05	0.029	667	24	<0.03	0.464	<0.3	9.9	<0.2	6.6	<0.01	20.9	3.49	<0.4	<0.03	<0.01	<0.03	68.7	2
SRK-FD19	5/16/2005	7.04	4350	0.3	446	120	4290	7.58	114	259	<5.0	3170	<0.20	<0.20	<0.20	0.029	<0.0050	<0.20	<0.10	0.043	448	<0.010	0.150	0.054	<0.030	<0.050	0.039	401	14.0	<0.030	0.356	<0.30	6.9	<0.20	4.10	<0.010	15.3	2.29	<0.20	<0.030	<0.010	0.048	64.3	2
SRK-FD19	9/13/2005	6.91	5760	0.5	425	17	5100	7.51	128	414	<10	4290	<1.0	<1.0	<1.0	0.052	<0.025	<1.0	<0.50	<0.050	675	<0.050	0.076	<0.050	<0.15	<0.25	0.062	702	28.0	<0.15	0.49	<1.5	12	<1.0	6.47	<0.050	26	3.82	<1.0	<0.15	<0.050	<0.15	83.8	2
FD19	5/23/2006	7.51	4960	0.1	249	180	4870	7.50	92.1	403	<2.5	3550	<0.2	<0.2	<0.2	0.029	<0.005	<0.2	<0.1	0.011	445	<0.01	0.064	0.019	<0.03	<0.05	0.038	580	16.4	<0.03	0.418	<0.3	10.6	<0.2	4.20	<0.01	21.8	2.80	<0.2	<0.03	<0.01	<0.03	36.3	2
FD-19	9/20/2006	7.22	5750	0.2	152	2	5590	7.58	123	436	<25	4070	<0.60	<0.60	<0.60	0.043	<0.015	<0.60	<0.30	<0.030	634	<0.030	0.073	<0.030	0.116	<0.15	0.039	736	30.8	<0.090	0.50	<0.90	10.7	<0.60	6.85	<0.030	21.0	3.31	<0.60	<0.090	<0.030	<0.090	84.1	2
FD-19	5/29/2007	7.37	5100	0.2	328	50	6120	7.61	242	409	2.82	3570	0.002	0.0003	0.0018	0.022	<0.0002	<0.0002	<0.01	0.01122	515	<0.0002	0.035	0.011	0.02	0.0014	0.038	640	17.1	0.0021	0.376	<0.03	10.3	0.0057	5.11	0.00012	20.3	3.79	0.00032	<0.0002	0.0004	<0.0002	54	2
FD-19	9/13/2007	6.89	5460	0.6	72	2	5140	7.53	145	445	<50	4090	<0.02	<0.002	<0.002	0.0361	<0.01	<0.01	<0.2	0.0073	566	<0.01	0.0673	0.0105	<0.06	0.0054	<0.1	648	29.6	<0.001	0.474	<0.6	10.1	<0.02	6.75	<0.0002	19.2	3.19	<0.002	<0.002	<0.02	<0.02	87.1	2
SRK-FD20	6/13/2002	3.18	555	8.2	492	0.5	572	3.18	135	<1	0.6	193	9.1	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	10.2	0.01	0.05	0.99	16.9	<0.05	0.01	9.1	0.603	<0.03	0.06	<0.3	<2	<0.2	10.8	<0.01	2	0.046	<0.2	<0.03	<0.01	<0.03	7.93	3
SRK-FD20	9/13/2002	2.78	1875	0.9	586	60	1820	2.82	8750	12	<0.5	1170	46.8	<0.2	<0.2	0.04	0.006	<0.2	<0.1	0.08	35.2	0.07	0.25	8.06	173	<0.05	0.08	35.8	2.31	<0.03	0.24	0.7	<2	<0.2	16.7	<0.01	4	0.145	<0.2	<0.03	<0.01	<0.03	59.8	3
SRK-FD20	6/5/2003	3.39	291	2.3	723	0	189	4.2	28	<1	0.6	69	1.8	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	6.45	<0.01	<0.01	0.24	1.45	<0.05	<0.01	3.8	0.161	<0.03	<0.05	<0.3	<2	<0.2	9.49	<0.01	2	0.044	<0.2	<0.03	<0.01	<0.03	2.2	3
SRK-FD20	9/12/2003	2.93	834	2.2	778	2	771	3.66	176	<1	<0.5	248	11.3	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	0.02	18	0.02	0.06	1.94	32.2	<0.05	0.03	13.2	0.672	<0.03	0.08	<0.3	<2	<0.2	13.9	<0.01	3	0.095	<0.2	<0.03	<0.01	<0.03	13.4	3
SRK-FD21	6/13/2002	4.57	4370	7.1	418	1.5	4130	4.51	283	8	0.8	3540	27.3	<0.2	<0.2	<0.01	0.009	<0.2	<0.1	0.17	410	<0.01	0.28	2.59	0.06	0.09	0.11	504	6.79	<0.03	0.53	<0.3	14	<0.2	8.54	<0.01	14	1.73	<0.3	<0.03	<0.01	<0.03	65	3
SRK-FD21B	9/13/2002	5.21	2860	1.6	371	slight	2820	5.37	35	8	<0.5	1980	1.5	<0.2	<0.2	<0.01	<0.005	<0.3	<0.1	0.05	322	<0.01	0.03	0.3	<0.03	<0.05	0.03	256	1.26	<0.03	0.18	<0.3	10	<0.2	3.15	<0.01	8	1.02	<0.2	<0.03	<0.01	<0.03	17	3
SRK-FD21B	6/5/2003	6.61	3270	11.5	372	2.7	3220	7.51	40	21	<0.5	2650	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.08	378	<0.01	0.06	0.12	<0.03	<0.05	0.04	358	2.06	<0.03	0.25	<0.3	11	<0.2	4.02	<0.01	10	1.35	<0.2	<0.03	<0.01	<0.03	26.2	2
SRK-FD21	5/30/2004	3.56	2840	6.5	700	9	2780	3.8	282	<1	1.08	1970	30.5	<0.2	<0.2	0.015	0.0088	<0.2	<0.1	0.106	335	<0.01	0.243	2.33	5.18	0.19	0.096	219	4.47	<0.03	0.317	<0.3	8.1	<0.2	9.46	<0.01	5.8	1.08	<0.2	<0.03	<0.01	<0.03	44.1	3
SRK-FD21	9/26/2004	6.81	2550	1.6		Trace	2520	8	23.9	10.4	<5	1710	0.58	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.035	283	<0.01	0.021	0.12	<0.03	<0.05	0.035	234	1.4	<0.03	0.232	<0.3	8.2	<0.2	3.05	<0.01	6.6	0.961	<0.2	<0.03	<0.01	<0.03	15.2	2
SRK-FD21	5/16/2005	4.18	2790	5.3	661	18	2740	4.56	161	2.4	<5.0	1900	16.4	<0.20	<0.20	0.012	0.0053	<0.20	<0.10	0.080	267	<0.010	0.158	1.45	0.654	0.099	0.058	202	3.08	<0.030	0.271	<0.30	6.1	<0.20	5.17	<0.010	4.4	0.826	<0.20	<0.030	<0.010	0.050	28.5	3
SRK-FD21	9/13/2005	7.16	4050	14.7	379	0.1	3680	7.49	55.7	15.3	<10	3060	1.24	<0.20	<0.20	0.013	<0.0050	<0.20	<0.10	0.077	398	<0.010	0.065	0.416	<0.030	0.056	0.066	446	2.20	<0.030	0.361	<0.30	12.6	<0.20	4.70	<0.010	13.1	1.46	<0.20	<0.030	<0.010	<0.060	26.4	2
FD21	5/24/2006	5.72	1932	6.5	345	8.6	1950	5.16	56.8	11.2	<2.5	1280	3.56	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	0.043	249	<0.01	0.082	0.424	<0.03	<0.05	0.032	153	1.82	<0.03	0.177	<0.3	7.5	<0.2	3.87	<0.01	4.6	0.743	<0.2	<0.03	<0.01	<0.03	17.3	2
FD-21	5/28/2007	7.13	2420	9.3	269	trace	2920	6.89	14	24.1	<2	1780	0.023	<0.0002	0.0006	0.016	<0.0002	<0.0002	<0.01	0.0295	299	<0.0002	0.032	0.026	<0.01	0.0031	0.029	278	1.04	0.0003	0.109	<0.03	8.63	0.003	3.6	<0.00005	7.55	1.02	0.00009	<0.0002	0.0002	<0.0002	11.5	2
FD-21	9/13/2007	4.79	2500	9.3	216	trace	3360	4.83	135	12.1	<50	2720	10.4	<0.001	<0.001	0.0113	<0.005	<0.005	<0.1	0.0762	349	<0.005	0.117	0.8	0.042	0.155	0.061	382	2.65	<0.0005	0.303	<0.3	10.4	<0.01	5.65	<0.0001	8.5	1.35	<0.001	<0.001	0.01	<0.01	31.7	3
SRK-FD22	6/13/2002	6.59	2270	13.4	271	Trace Flow	2150	7.72	25	179	0.7	1390	<0.2	<0.2	<0.2	<0.01	<0.005	<0.3	<0.1	0.01	346	<0.01	0.02	<0.01	<0.03	<0.05	0.07	158	1.24	<0.03	0.07	<0.3	9	<0.2	2.51	<0.01	4	1.23	<0.2	<0.03	<0.01	<0.03	7.19	2
SRK-FD22B	9/12/2002	5.45	1766	12	288	slight	1740	6.7	70	15	<0.5	1130	1.4	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.07	239	<0.01	0.04	0.45	0.07	<0.05	0.07	88.2	2.37	<0.03	0.06	<0.3	9	<0.2	3.37	<0.01	5	0.816	<0.2	<0.03	<0.01	<0.03	41	3
SRK-FD22B	6/8/2003	6.84	1460	8.1	632	Trace	1520	7.48	65	47	<0.5	1120	1.6	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	0.07	235	<0.01	0.06	0.5	0.07	<0.05	0.07	91.2	3.71	<0.03	0.09	<0.3	8	<0.2	3.5	<0.01	5	0.836	<0.2	<0.03	<0.01	<0.03	42.7	2
SRK-FD23	6/13/2002	6.39	729	19.4	113	Trace Flow	708	7.42	27	31	2.1	346	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.08	49.1	<0.01	0.13	<0.01	2.14	<0.05	0.04	53.6	2.84	<0.03	0.13	<0.3	3	<0.2	3.65	<0.01	3	0.183	<0.2	<0.03	<0.01	<0.03	8.89	2
SRK-FD23B	9/13/2002	4.27	1403	36.9	235	5	1450	4.46	227	92	0.7	801	0.6	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.22	73.5	<0.01	0.38	0.2	50	<0.05	0.06	104	7.44	<0.03	0.37	<0.3	3	<0.2	5.21	<0.01	3	0.23	<0.2	<0.03	<0.01	<0.03	43.4	3
SRK-FD23B	9/12/2003	6.19	772	8.8	299	Trace	723	5.47	50	4	1.3	378	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.09	50.7	<0.01	0.15	0.05	20.2	<0.05	0.05	57.5	3.31	<0.03	0.14	<0.3	3	<0.2	4	<0.01	3	0.185	<0.2	<0.03	<0.01	<0.03	15.9	2
SRK-FD23	5/30/2004	5.74	875	16.2	288	Trace	859	6.48	36.7	8.9	1.45	474	<0.2	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	0.103	65.6	<0.01	0.166	0.043	6.57	<0.05	0.064	62.1	3.77	<0.03	0.171	<0.3	3.5	<0.2	3.82	<0.01	3.2	0.229	<0.2	<0.03	<0.01	<0.03	14.3	2
SRK-FD23	5/16/2005	5.71	886	10.2	364	Trace	925	6.41	40.9	11.1	0.92	492	<0.20	<0.20	<0.20	0.013	<0.0050	<0.20	<0.10	0.119	74.1	<0.010	0.209	0.129	10.1	<0.050	0.061	79.1	4.33	<0.030	0.210	<0.30	2.9	<0.20	4.06	<0.010	2.8	0.266	<0.20	<0.030	<0.010	<0.030	18.4	3
SRK-FD23	9/13/2005	5.31	1148	13.6	405	Trace	1060	6.27	132	5.6	0.90	600	0.65	<0.20	<0.20	0.011	<0.0050	<0.20	<0.10	0.110	64.1	<0.010	0.222	0.182	49.2	0.069	0.060	78.4	4.61	<0.030	0.238	<0.30	2.8	<0.20	4.55	<0.010	3.0	0.221	<0.20	<0.030	<0.010	<0.040	24.3	3
FD-23	9/20/2006	5.01	1168	6.4	178	trace	1070	6.23	118	6.8	0.92	590	0.28	<0.20	<0.20	0.011	<0.0050	<0.20	<0.10	0.115	60.9	<0.010	0.229	0.133	39.9	<0.050	0.052	76.5	4.56	<0.030	0.230	<0.30	2.6	<0.20	4.21	<0.010	2.8	0.213	<0.20	<0.030	<0.010	<0.030	24.8	3
FD-23	9/13/2007	4.77	1601	9.6	200	trace	1580	5.45	279	6.9	<5	1040	2.65	<0.001	<0.001	0.00609	<0.005	<0.005	<0.1	0.121	99.9	<0.005	0.234	0.412	75	0.0743	<0.05	136	4.1	<0.0005	0.241	<0.3	3.9	<0.01	7.59	<0.0001	3.8	0.144	<0.001	<0.001	<0.01	<0.01	25.5	3

Sample ID	Date Sampled	pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Cond (uS/cm)	Lab pH	Acidity (to pH 8.3) CaCO3	Alkalinity<Total CaCO3	Chloride Cl	Sulphate SO4	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50	0.20	0.20	0.20	0.010	0.0050	0.20	0.10	0.010	0.050	0.010	0.010	0.010	0.030	0.050	0.010	0.10	0.0050	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-FD24	6/13/2002	6.95	1323	8.4	71	300	1310	7.32	46	88	2	710	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.03	138	<0.01	0.06	0.03	2.47	<0.05	0.04	90.4	2.46	<0.03	0.11	<0.3	4	<0.2	5.1	<0.01	4	0.449	<0.2	<0.03	<0.01	<0.03	26.8	2
SRK-FD24	9/13/2002	5.12	902	3.2	196	1000	884	7.32	27	90	1	406	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.02	77.7	<0.01	0.04	0.03	2.51	<0.05	0.03	52.2	1.21	<0.03	0.05	<0.3	4	<0.2	4.22	<0.01	3	0.252	<0.2	<0.03	<0.01	<0.03	13.3	3
SRK-FD24	6/5/2003	6.46	1335	13.5	325	10	1370	7.42	38	59	0.8	864	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.02	169	<0.01	0.06	0.02	5.35	<0.05	0.04	99.2	2.79	<0.03	0.12	<0.3	5	<0.2	6.07	<0.01	5	0.494	<0.2	<0.03	<0.01	<0.03	25.2	2
SRK-FD24	9/12/2003	6.85	1446	2.6	331	21	921	6.91	45	82	1.3	444	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.02	92.4	<0.01	0.05	0.04	3.47	<0.05	0.03	65.6	1.65	<0.03	0.07	<0.3	3	<0.2	5.44	<0.01	4	0.309	<0.2	<0.03	<0.01	<0.03	18.9	2
SRK-FD24	5/30/2004	6.34	1689	8	285	12	1670	6.9	79.7	43.2	1.32	1020	<0.2	<0.2	<0.2	0.016	<0.005	<0.2	<0.1	0.059	176	<0.01	0.138	0.148	6.18	0.069	0.053	119	5.37	<0.03	0.171	<0.3	4.8	<0.2	5.71	<0.01	4.2	0.561	<0.2	<0.03	<0.01	<0.03	45.6	2
SRK-FD24	9/26/2004	6.82	830	2.8	306	120	828	7.91	17.4	103	<2.5	345	<0.2	<0.2	<0.2	0.017	<0.005	<0.2	<0.1	0.016	89.8	<0.01	0.022	0.034	2.44	0.091	0.027	51.9	1.02	<0.03	<0.05	<0.3	4.1	<0.2	4.11	<0.01	3.6	0.293	<0.2	<0.03	<0.01	<0.03	9.7	2
SRK-FD24	5/16/2005	6.26	1837	5.6	348	144	1820	7.08	75.3	57.3	<5.0	1100	<0.20	<0.20	<0.20	0.014	<0.0050	<0.20	<0.10	0.061	209	<0.010	0.147	0.157	6.29	0.072	0.056	138	5.56	<0.030	0.205	<0.30	4.1	<0.20	4.69	<0.010	3.9	0.602	<0.20	<0.030	<0.010	<0.030	42.2	2
SRK-FD24	9/15/2005	6.74	967	6.2	379		901	7.35	25.1	77.2	0.79	437	<0.20	<0.20	<0.20	0.012	<0.0050	<0.20	<0.10	0.014	101	<0.010	0.034	0.029	3.73	0.071	0.029	63.5	1.42	<0.030	0.069	<0.30	2.8	<0.20	3.85	<0.010	3.5	0.318	<0.20	<0.030	<0.010	<0.050	12.0	2
FD24	5/24/2006	6.29	1939	2.5	199	15	1910	6.46	125	<2	<2.5	1210	0.52	<0.2	<0.2	0.017	<0.005	<0.2	<0.1	0.073	229	<0.01	0.200	0.148	2.33	0.158	0.058	143	8.43	<0.03	0.242	<0.3	5.0	<0.2	5.21	<0.01	3.5	0.665	<0.2	<0.03	<0.01	<0.03	67.7	2
FD-24	9/20/2006	6.71	957	5.2	160	66.6	926	7.11	30.3	80.5	0.91	447	<0.20	<0.20	<0.20	0.011	<0.0050	<0.20	<0.10	0.018	90.8	<0.010	0.034	0.048	1.62	0.089	0.031	65.2	1.38	<0.030	0.078	<0.30	3.0	<0.20	4.37	<0.010	3.6	0.284	<0.20	<0.030	<0.010	<0.030	16.9	2
FD-24	5/28/2007	7	1626	1.5	221	2	1650	7.19	68.0	130.0	<2	924	0.06	<0.0002	0.0004	0.012	<0.0002	<0.0002	<0.01	0.040	199.0	<0.0002	0.081	0.038	2.81	0.006	0.057	126.0	5.01	0.0005	0.129	<0.03	4.8	0.0014	5.38	0.0001	6.2	0.536	0.00062	<0.0002	0.0002	<0.0002	41.4	2
FD-24	9/13/2007	6.62	1123	5.9	89	50	1090	7.07	59.6	74.2	1.04	573	0.038	<0.001	<0.001	0.010	<0.005	<0.005	<0.1	0.029	111.0	<0.005	0.061	0.079	4.41	0.046	<0.05	83.2	2.07	<0.0005	0.104	<0.3	3.8	<0.01	5.96	<0.0001	4.1	0.318	<0.001	<0.001	<0.01	<0.01	27.6	2
SRK-FD26	6/13/2002	6.76	875	2.7	212	Good Flow	797	7.68	17	163	1.8	298	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	82.2	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	51.4	0.081	<0.03	<0.05	<0.3	3	<0.2	4.9	<0.01	4	0.32	<0.2	<0.03	<0.01	<0.03	1.28	1
SRK-FD26	9/12/2002	6.56	1117	2.6	345	>1000	1030	7.51	15	198	1.2	391	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	116	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	76.3	0.151	<0.03	<0.05	<0.3	4	<0.2	5.79	<0.01	6	0.461	<0.2	<0.03	<0.01	<0.03	2.02	1
SRK-FD26	6/5/2003	6.78	1209	2.9	418	400	1160	7.62	17	229	2.3	501	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	127	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	95.2	0.088	<0.03	<0.05	<0.3	4	<0.2	5.79	<0.01	7	0.529	<0.2	<0.03	<0.01	<0.03	1.49	1
SRK-FD26	9/12/2003	6.85	1446	2.6	331	21	1410	7.48	29	242	2.7	617	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	151	<0.01	<0.01	<0.01	<0.03	<0.05	0.04	114	0.351	<0.03	<0.05	<0.3	4	<0.2	5.34	<0.01	8	0.632	<0.2	<0.03	<0.01	<0.03	3.81	1
SRK-FD26	5/30/2004	6.55	1160	3	380	23.2	1180	7.63	15.3	189	1.48	446	<0.2	<0.2	<0.2	0.024	<0.005	<0.2	<0.1	<0.01	112	<0.01	<0.01	<0.01	<0.03	<0.05	0.029	81.3	0.0975	<0.03	<0.05	<0.3	2.4	<0.2	5.09	<0.01	5.7	0.475	<0.2	<0.03	<0.01	<0.03	2.57	1
SRK-FD26	9/26/2004	7.29	1487	2.7	358	180	1460	7.98	12.7	233	<2.5	618	<0.2	<0.2	<0.2	0.027	<0.005	<0.2	<0.1	<0.01	158	<0.01	<0.01	<0.01	<0.03	<0.05	0.037	124	0.263	<0.03	<0.05	<0.3	4.4	<0.2	5.16	<0.01	8.8	0.668	<0.2	<0.03	<0.01	<0.03	2.97	1
SRK-FD26	5/16/2005	6.78	1632	2.5	336	600	1570	7.65	12.1	249	<5.0	684	<0.20	<0.20	<0.20	0.035	<0.0050	<0.20	<0.10	<0.010	169	<0.010	<0.010	<0.010	<0.030	<0.050	0.037	135	0.153	<0.030	<0.050	<0.30	4.2	<0.20	5.04	<0.010	8.2	0.660	<0.20	<0.030	<0.010	0.033	3.15	1
SRK-FD26	9/15/2005	6.86	1696	2.7	399	190	1480	7.23	11.7	252	<2.5	678	<0.20	<0.20	<0.20	0.035	<0.0050	<0.20	<0.10	<0.010	192	<0.010	<0.010	<0.010	<0.030	<0.050	0.049	155	0.284	<0.030	0.055	<0.30	4.6	<0.20	6.14	<0.010	10.2	0.768	<0.20	<0.030	<0.010	<0.030	4.43	1
FD26	5/24/2006	7.32	2230	0.8	165	30	2200	7.71	17.7	310	<2.5	1170	<0.2	<0.2	<0.2	0.027	<0.005	<0.2	<0.1	<0.01	234	<0.01	<0.01	0.021	<0.03	<0.05	0.060	215	0.343	<0.03	0.051	<0.3	6.3	<0.2	4.37	<0.01	10.5	0.969	<0.2	<0.03	<0.01	<0.03	5.51	1
FD-26	9/20/2006	6.66	1090	2.7	243	330	1090	7.58	13.7	205	1.44	422	<0.20	<0.20	<0.20	0.029	<0.0050	<0.20	<0.10	<0.010	119	<0.010	<0.010	<0.010	<0.030	<0.050	0.026	85.6	0.171	<0.030	<0.050	<0.30	3.2	<0.20	5.40	<0.010	5.9	0.458	<0.20	<0.030	<0.010	<0.030	2.37	1
FD-26	5/28/2007	6.98	2420	0.9	28	1	2610	7.44	62	304	3.2	1350	0.22	<0.0002	0.0007	0.02	0.0002	<0.0002	<0.01	0.0256	271	<0.0002	0.037	0.05	0.1	0.0013	0.063	260	1.75	0.0002	0.1	<0.03	5.25	0.0017	6.47	<0.00005	15.1	1.04	0.00012	<0.0002	0.0003	<0.0002	20.4	2
FD-26	9/13/2007	6.9	1167	3.1	123	100	1150	7.44	20.7	219	1.56	465	0.0703	<0.0002	0.00026	0.0236	<0.001	<0.001	<0.02	0.00274	128	<0.001	0.0059	0.00626	<0.03	0.00024	0.027	92	0.192	<0.0001	0.0248	<0.3	3.9	<0.002	6.02	<0.00002	6.5	0.462	<0.0002	<0.0002	<0.01	<0.002	2.25	1
SRK-FD27	6/13/2002	6.98	1552	18.8	237	Trace Flow	1510	7.46	48	43	0.5	1050	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.04	140	<0.01	0.03	<0.01	<0.03	<0.05	0.09	123	1.46	<0.03	0.11	<0.3	8	<0.2	1.69	<0.01	3	0.617	<0.2	<0.03	<0.01	<0.03	29.4	2
SRK-FD27	9/12/2002	3.33	2590	11.6	392	slight	2350	3.86	350	<1	<0.5	1650	9.2	<0.2	<0.2	<0.01	0.005	<0.3	<0.1	0.25	240	<0.01	0.2	3.3	40.4	0.81	0.11	166	9.38	<0.03	0.35	<0.3	8	<0.2	6.66	<0.01	4	0.731	<0.2	<0.03	<0.01	<0.03	180	3
SRK-FD27	6/5/2003	6.91	1375	17.3	369	0	1350	7.55	37	52	<0.5	847	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.04	133	<0.01	0.02	0.02	0.06	<0.05	0.07	110	1.55	<0.03	0.1	<0.3	8	<0.2	1.95	<0.01	3	0.581	<0.2	<0.03	<0.01	<0.03	26.5	2
SRK-FD27	5/26/2004	6.56	1392	7.5	328	1	1530	6.78	168	13.6	0.67	948	1.17	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.104	128	<0.01	0.132	0.704	15.9	0.084	0.072	95.2	6.16	<0.03	0.321	<0.3	4.2	<0.2	2.18	<0.01	<2	0.588	<0.2	<0.03	<0.01	<0.03	86.7	2
SRK-FD30	9/10/2002	6.4	3740	6.6	360	ponded	3590	6.91	60	36	0.9	2670	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	<0.02	261	<0.02	0.09	<0.02	<0.06	<0.1	0.22	472	7.52	<0.06	0.6	<0.6	12	<0.4	2.6	<0.02	14	1.56	<0.4	<0.06	<0.02	<0.06	30.4	2
SRK-FD30	6/6/2003	6.09	2100	11.9	657	0	1850	7.7	37	25	0.5	1430	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	199	<0.01	0.01	<0.01	0.17	<0.05	0.09	195	0.566	<0.03	0.21	<0.3	7	<0.2	4.08	<0.01	12	0.819	<0.2	<0.03	<0.01	<0.03	26.1	2
SRK-FD30	9/13/2003	5.9	3330	5.8	423	None	2600	7.68	21	61	1.4	1800	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	218	<0.01	0.1	<0.01	2.54	<0.05	0.17	317	6.72	<0.03	0.33	<0.3	11	<0.2	6.29	<0.01	17	1.16	<0.2	<0.03	<0.01	<0.03	6.89	2
SRK-FD30	5/26/2004	6.06	2180	9.9	380	None	2060	7.51	38.3	30.7	0.6	1270	<0.2	<0.2	<0.2	0.036	<0.005	<0.2	<0.1	0.013	182	<0.01	0.029	0.034	0.084	<0.05	0.076	179	1.33	<0.03	0.073	<0.3	6.3	<0.2	1.62	<0.01	5.6	0.701	<0.2	<0.03	<0.01	<0.03	20.5	2
SRK-FD30	5/18/2005	5.85	2490	12.4	492	None	2490	7.54	93.1	51.8	<5.0	1530	0.23	<0.20	<0.20	0.037	<0.0050	<0.20	<0.10	0.027	202	<0.010	0.061	0.074	0.104	<0.050	0.130	214	3.64	<0.030	0.175	<0.30	7.1	<0.20	2.76	<0.010	11.1	1.02	<0.20	<0.030	<0.010	<0.030	37.1	3
FD30	5/25/2006	5.73	2240	8.2	306	0	2270	7.37	83.8	2.4	<2.5	1500	0.43	<0.2	<0.2	0.029	<0.005	<0.2	<0.1	0.033	197	<0.01	0.060	0.104	0.195	<0.05	0.077	216	3.71	<0.03	0.210	<0.3	6.7	<0.2	2.34	<0.01	5.9	0.834	<0.2	<0.03	<0.01	<0.03	40.9	3
FD-30	5/27/2007	6.36	2450	12.2	216		3270	6.4	92	37.2	<2	1930	0.067	<0.0002	0.0013	0.019	0.0003	<0.0002	<0.01	0.0106	260	<0.0002	0.074	0.0069	2.03	0.0015	0.14	327	6.5	0.0007	0.327	<0.03	9.69	0.0021	3.45	0.00011	11	1.14	0.00023	<0.0002	0.0004	<0.0002	53.2	2
SRK-FD31	9/10/2002	6.37	5750	6.2	181	300	5420	6.46	585	333	15	4350	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.08	576	<0.02	0.44	0.12	36.7	<0.1	0.12	640	50.3	<0.06	0.7	<0.6	13	<0.4	7.5	<0.02	51	3.56	<0.4	<0.06	<0.02	<0.06	223	2
SRK-FD31	6/6/2003	6.82	5490	10.4	201	120	5260	7.16	274	301	16.7	4560	<0.2	<0.2	<0.2	0.02	<0.005	<0.6	<0.1	0.06	517	<0.01	0.38	0.04	28.2	<0.05	0.12	655	48.6	<0.03	0.58	<0.3	14	<0.2	6.93	<0.01	56	3.41	0.2	<0.03	<0.01	<0.03	162	2
SRK-FD31	9/13/2003	6.9	5620	6.4	230	120	5430	7.2	207	331	16.1	4110	<0.2	<0.2	<0.2	0.02	<0.005	<0.9	<0.1	0.03	519	<0.01	0.41	0.03	22.9	<0.05	0.13	694	49.9	<0.03	0.58	<0.3	15	<0.2	7.21	<0.01	58	3.76	<0.3	<0.03	<0.01	<0.03	152	2
SRK-FD31	5/27/2004	6.28	6260	7.7	273	300	5630	7	603	204	12.3	4190	<0.4	<0.4	<0.4	0.025	<0.01	<0.4	<0.2	0.331	509	<0.02	0.825	0.638	27.1	<0.1	0.18	726	63.3	<0.06	1.25	<0.6	15.2	<0.4	7.51	<0.02	48.7	3.75	<0.4	<0.06	<0.02	<0.06	393	2
SRK-FD31	9/26/2004	6.62	6680	5	218	78	6260	6.91	639	127	14	5110	<0.4	<0.4	<0.6	<0.02	<0.01	<0.4	<0.2	0.044	445	<0.02	0.644	0.027	112	<0.1	0.133	669	61.5	<0.06	0.81	<0.6	14.5	<0.4	6.22	<0.02	48.5	3.12	<0.8	<0.06	<0.02	<0.1	336	2
SRK-FD31	5/18/2005	6.36	7200	7.5	328	360	6920	6.88	780	101	25	6290	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.289	471	0.030	1.04	0.736	81.8	<0.10	0.196	757	73.0	<0.060	1.43	<0.60	13.4	<0.40	6.95	<0.020	48.8	3.15	<0.40	<0.060	<0.020	0.122	525	2
SRK-FD31	9/13/2005	6.4	6880	10.2	289		6380	6.15	770	123	13	5580	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.113	504	<0.020	0.98	<0.020	120.0	<0.10	0.216	873	84.9	<0.060	1.19	<0.60	16.0	<0.40	6.99	<0.020	63.2	3.51	<0.60	<0.060	<0.020	<0.060	501	2
FD31	5/25/2006	5.92	6820	5.8	376	33	6550	6.41	804	16.2	13.3	5440	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.309	474	<0.02	0.929	0.453	61.6	<0.1	0.176	807	84.8	<0.06	1.10	<0.6	28.8	<0.4	6.71	<0.02	78.6	3.84	<0.4	<0.06	<0.02	<0.06	569	2
SRK-FD31	9/24/2006	6.92	6530	6.3		14.5	6080	7.01	462	185	<25	4990	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.047	471	<0.020	0.702	<0.020	72.1	<0.10	0.149	765	70.2	<0.060	0.83	<0.60	13.3	<0.40	6.22	<0.020	62.1	3.12	<0.40	0.306	<0.020	0.089	290	2
FD-31	5/29/2007	6.36	6580	7.8	198	50	7330	6.44	650	214	17.4	5350	0.003	<0.0002	0.0014	0.014	<0.0002	<0.0002	<0.01	0.061	504	<0.0002	0.610	0.025	66.6	<0.0002	0.150	834	70.5	0.0083	0.67	<0.03	16.2	0.0049	8.22	0.00062	58.4	4.38	0.0015	<0.0002	0.0007	<0.0002	329	2
FD-31	9/14/2007	6.24	6330	5.7	42	50	6010	6.42	423	332	<50	5010	<0.05	<0.005	<0.005	0.0159	<0.025	<0.025	<0.5	0.046	487	<0.025	0.696	0.023	43.9	0.0068	<0.25	809	74.0	<0.0025	0.82	<0.6	16.3	<0.05	7.54	<0.0005	62.2	4.24	<0.005	<0.005	<0.02	<0.05	261	2
SRK-FD32	9/10/2002	6.38	3580	9.6	81	60	3410	4.86	2160	13	2.6	2790	<0.6	<0.6	<0.6	<0.03	<0.02	<0.6	<0.3	0.46	322	<0.03	0.5	<0.03	89.9	<0.2	0.07	168	36.5	<0.09	0.6	<0.9	8	<0.6	4.2	<0.03	42	1.25	<0.6	<0.09	<0.03	<0.09	581	2
SRK-FD33	9/11/2002	5.96	4540	6.2	85	30	4250	5.36	1590	31	2.9	3620	<1	<1	<1	<0.05	<0.03	<1	<0.5	0.88	355	<0.05	0.9	0.34	236	<0.3	0.12	221	63.4	<0.2	0.8	<2	<10	<1	6.5	<0.05	50	1.54	<1	<0.2	<0.05	<0.2	1110	3
SRK-FD33	6/8/2003	5.49	5010	10.9	524	Trace	5210	5.82	2780	14	4.7	5340	4	<4	<4	<0.2	<0.1	<4	<2	6.9	475	<0.2	1.7	3.1	1.3	2	<0.2	211	64.2	<0.6	<1	<6	<40	<4	9	<0.2	46	0.7	<4	<0.6	<0.2	<0.6	2260	3
SRK-FD33	5/26/2004	5.05	10760	13	376	0.5	10400	4.01	6100	12.8	<0.5	10000	7.5	<6	<6	<0.3	<0.15	<6	<3	4.55	508	<0.3	2.92	1.38	456	2.3	<0.3	484	161	<0.9	2.3	<9	<60	<6	11.9	<0.3	<60	1.73	<6	<0.9	<0.3	<0.9	4900	3
SRK-FD33	5/18/2005	3.75	13910	13.9	565	Trace	14000	3.18	11600	<2.0	<5.0	16600	54.5	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	5.71	448	0.43	3.52	5.96	850	1.99	0.31	485	198	<0.50	3.49	<3.0	<20	<2.0	25.6	<0.10	22	1.43	<2.0	<0.30	<0.10	<0.30	6770	3
SRK-FD34	9/11/2002	5.95	1242	4.6	152	60	1190	6.63	227	8	0.5	700	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	0.12	107	<0.01	0.08	0.14	33.9	0.36	0.02	38.8	5.67	<0.03	0.08	<0.3	3	<0.2	2.06	<0.01	14	0.347	<0.2	<0.03	<0.01	<0.03	128	3
SRK-FD34	9/13/2005	3.43	1658	9.8	666	7.8	1760	3.09	478	<2.0	<5.0	1060	2.61	<0.20	<0.20	0.055	<0.0050	<0.20	<0.10	0.082	79.6	0.017	0.229	0.394	67.4	1.25	0.018	40.0	10.3	<0.030	0.206	<0.30	<2.0	<0.20	2.16	<0.010	11.6	0.232	<0.20	<0.030	<0.010	<0.040	155	3
SRK-FD35	9/11/2002	6.22	1654	7	266	30	1600	6.54	37	33	1.7	962	0.3	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	272	<0.01	0.03	0.07	1.42	<0.05	0.03	51.1	3.84	<0.03	<0.05	<0.3	7	<0.2	11.9	<0.01	34	0.715	<0.2	<0.03	<0.01	<0.03	13.7	2
SRK-FD35	5/26/2004	3.03	11320	7.3	578	-0.1	8990	2.95	6290	<1	2.08	9220	216	<2	2.1	<0.1	<0.05	<2	<1	2.79	392	<0.1	2.77	8.33	1750	1.64	0.19	269	109	<0.3	1.55	<3	<20	<2	39	<0.1	35	0.976	<2	<0.3	<0.1	<0.3	1660	3
SRK-FD35	9/27/2004	5.09	5320	10	491	0.1	2500	5.43	213	8.7	<5	1700	2.41	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.127	458	<0.01	0.091	0.117	1.5	0.609	0.045	81.4	7.31	<0.03	0.087	<0.3	7	<0.2	6.86	<0.01	44.9	1.31	<0.2	<0.03	<0.01	<0.03	99.3	3
SRK-FD35	9/13/2005	6.46	1622	10.9	367	2.5	1550	6.92	34.6	53.2	<5.0	945	<0.20	<0.20	<0.20	0.010	<0.0050	<0.20	<0.10	0.010	259	<0.010	0.030	0.035	3.15	<0.050	0.038	37.5	2.95	<0.030	<0.050	<0.30	6.3	<0.20	7.84	<0.010	28.5	0.745	<0.20	<0.030	<0.010	<0.030	14.6	2
SRK-FD36	9/11/2002	2.75	3540	5.5	521	10	3410	2.78	1530	<1	19.4	2810	38.9	<0.2	<0.2	<0.01	0.011	<0.2	<0.1	0.23	250	0.12	0.52	4.2	274	1.17	0.14	120	13.6	<0.03	1.05	<0.3	5	<0.2	23.3	<0.01	6	0.7	<0.3	<0.03	<0.01	<0.03	151	3
SRK-FD36	6/8/2003	2.63	4650	7.6	752	0.75	4250	2.72	2500	<1	23.8	3460	73	<0.2	<0.2	<0.01	0.021	<0.2	<0.1	0.37	361	0.2	0.87	6.75	416	1.37	0.25	216	25	<0.03	1.6	0.6	7	<0.2	29.6	<0.01	8	1.01	0.4	<0.03	0.01	<0.03	222	3
SRK-FD37	9/11/2002	2.44	12740	10.1	438	300	12700	2.66	12500	<1	<0.5	16500	117	<6	28	<0.3	<0.2	<6	<3	12.6	268	<0.3	4.8	133	1780	<2	<0.3	310	166	<0.9	5	<9	<60	<6	29	<0.3	<60	0.5	<6	<0.9	<0.3	<0.9	6130	3
SRK-FD37	6/8/2003	2.38	11980	7.8	663	120	10300	2.59	10900	<1	<0.5	13200	71.1	0.3	9.7	<0.01	0.009	<0.2	0.5	10	216	<0.01	3.23	120	1040	0.6	0.13	235	132	<0.03	3.17	3.2	<2	0.7	16.7	0.1	<2	0.283	0.6	<0.03	<0.01	<0.03	7840	3
SRK-FD37	5/17/2005	2.7	19500	12.5	619	15	17500	2.85	19900	<2.0	<50	20800	196	<4.0	30.0	<0.20	<0.10	<4.0	<2.0	23.1	265	0.82	8.10	274	1790	<1.0	0.26	501	311	<0.80	7.9	<6.0	<40	<4.0	22.2	<0.20	<40	0.42	<4.0	<0.60	<0.20	<0.60	11700	3
SRK-FD37	9/14/2005	2.28	28800	14.6	655		24400	2.36	30300	<2.0	<50	40700	259	<10	63	<0.50	<0.25	<10	<5.0	31.6	297	1.18	11.5	256	2910	<2.5	<0.50	823	408	<1.5	11.1	<15	<100	<10	37.1	<0.50	<100	0.42	<10	<1.5	<0.50	<1.5	14200	3
FD37		0.9	21900	11.6	459	trace	24400	2.52	32200	<2	<500	37000	413	<10	234	<0.5	<0.25	<10	<5	26.5	319	<0.5	10.7	549	5190	4.4	<0.5	670	391	<1.5	9.7	<15	<100	<10	33.1	<0.5	<100	0.39	<10	<1.5	<0.5	<1.5	15800	3
FD-37	9/14/2007	2.05	35300	6.8	413	trickle	32000	2.28	47300	<2	<2500	59800	578	1.53	450	<0.25	<2.5	<2.5	<50	36.1	345	<2.5	14.4	492	9440	4.9	<25	738	456	<0.25	12.7	15.1	<40	<5	59.6	<0.05	<40	<0.6	<0.5	<0.5	0.23	<5	21100	3
SRK-FD38	9/12/2002	7	3970	8.6	313	2.5	3830	6.83	792	83	0.7	3380	<0.6	<0.6	<0.6	<0.03	<0.02	<0.6	<0.3	0.62	504	<0.03	0.53	0.06	<0.09	<0.2	0.13	215	44.4	<0.09	0.9	<0.9	10	<0.6	6.3	<0.03	11	1.78	<0.6	<0.09	<0.03	<0.09	595	2
SRK-FD38B	6/8/2003	3.07	2440	6.8	689	10	2240	3.21	740	<1	<0.5	1690	9.1	<0.2	<0.2	<0.01	0.005	<0.2	<0.1	0.45	235	<0.01	0.26	2.38	33.8	1.78	0.06	67.9	16	<0.03	0.32	<0.3	4	<0.2	5.51	<0.01	3	0.499	<0.2	<0.03	<0.01	<0.03	287	3

Sample ID	Date Sampled	pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Cond (uS/cm)	Lab pH	Acidity (to pH 8.3) CaCO3	Alkalinity<Total CaCO3	Chloride Cl	Sulphate SO4
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L
SRK-FD40	9/13/2002	3.23	938	4.9	540	>1000	877	3.52	135	<1	<0.5	445
SRK-FD40	6/6/2003	3.35	789	1.4	738	Lots	780	3.5	117	<1	0.7	379
SRK-FD40	9/12/2003	6.2	692	3.1	494	120	676	7.24	43	29	0.5	334
SRK-FD40	6/3/2004	3.53	1664	8.6	720	900	1790	3.14	318	<1	0.83	926
SRK-FD40	9/26/2004	7.01	1192	2.8	443	30	1190	7.04	77.8	27.8	<5	661
SRK-FD40	5/16/2005	2.83	2510	1.8	767	600	2360	2.80	672	<2.0	<5.0	1340
SRK-FD40	9/13/2005	6.9	1100	8.2	403	>150	1060	6.47	75.3	25.3	<2.5	612
FD40	5/24/2006	2.89	2160	2.1			1970	2.88	566	<2	<2.5	1070
SRK-FD40	9/20/2006	5.81	923	3.2	330	2	903	7.05	53.6	21.2	<0.50	471
A30	5/28/2007	3.5	934	1.6	691	>1	765	3.14	152.0	<0.5	0.46	403
FD-40	9/13/2007	3.24	943	5.9	448	>1000	867	3.56	145.0	<2	<0.5	425
SRK-FD44	6/8/2003	7.1	2470	7.7	621	1	2290	6.84	99	83	<0.5	1850
SRK-FD44	5/26/2004	6.47	974	8	291	4	1060	7.91	6.5	57.4	<0.5	472
SRK-FD44	5/16/2005	7	1870	7.6	395	6.5	1880	7.24	30.6	95.1	<5.0	939
FD44	5/23/2006	6.72	1851	10.9	181	3.5	1790	7.48	68.8	40.9	<2.5	1140
SRK-FD46	9/13/2003	2.88	5750	5.6	652	15	5670	2.8	6550	<1	5.5	5040
SRK-FD47	5/26/2004	3.08	1940	13.3	560	Trace	1940	3.11	392	<1	1.76	1130
SRK-FD47	5/18/2005	3.48	1637	5	666	Trace	1690	3.25	182	<2.0	1.40	905
FD47	5/23/2006	3.09	1660	13.8	490	0	1600	3.12	371	<2	<2.5	867
SRK-FD48	5/26/2004	6.53	1748	2.5	339	12.5	1750	7.29	20.8	135	0.59	910
SRK-FD49	5/28/2004	6.05	9030	10.3	421	Trace	8970	6.29	122	22.1	<0.5	8180
SRK-FD49	5/18/2005	5.15	5150	9.9	477	Trace	5060	6.86	154	47.8	<10	4070
SRK-FD50	5/30/2004	7.35	1190	11.1	352	Trace	1200	8.16	2.6	211	<0.5	476
FD50	5/24/2006	7.83	1050	8.1	162	trace	1020	8.08	4.0	184	<0.5	424

Sample ID	Date Sampled	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn
	Min. detection level	0.20	0.20	0.20	0.010	0.0050	0.20	0.10	0.010	0.050	0.010	0.010	0.010	0.030	0.050	0.010	0.10	0.0050
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SRK-FD40	9/13/2002	4	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.07	33.6	<0.01	0.13	0.58	2.51	0.1	0.02	52.5	3.79
SRK-FD40	6/6/2003	4.1	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	0.06	23.2	<0.01	0.12	0.53	3.91	0.08	0.01	47.1	3.19
SRK-FD40	9/12/2003	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.02	69.7	<0.01	<0.01	0.01	<0.03	<0.05	0.01	37	0.037
SRK-FD40	6/3/2004	13.5	<0.2	<0.2	0.025	0.0079	<0.2	<0.1	0.154	99.7	<0.01	0.233	1.95	29.5	0.394	0.052	105	6.63
SRK-FD40	9/26/2004	<0.2	<0.2	<0.2	0.018	<0.005	<0.2	<0.1	0.034	124	<0.01	<0.01	0.032	<0.03	0.093	0.028	75.9	0.12
SRK-FD40	5/16/2005	26.0	<0.20	<0.20	0.018	0.0093	<0.20	<0.10	0.206	72.4	0.029	0.384	3.24	85.0	0.423	0.060	125	8.48
SRK-FD40	9/13/2005	0.48	<0.20	<0.20	0.015	<0.0050	<0.20	<0.10	0.043	110	<0.010	0.019	0.111	<0.030	<0.050	0.018	60.7	0.708
FD40	5/24/2006	19.0	<0.2	<0.2	0.018	0.0068	<0.2	<0.1	0.136	49.8	0.023	0.293	2.55	75.0	0.292	0.049	88.8	6.41
SRK-FD40	9/20/2006	<0.20	<0.20	<0.20	0.017	<0.0050	<0.20	<0.10	0.035	83.7	<0.010	<0.010	0.021	<0.030	<0.050	0.021	47.1	0.178
A30	5/28/2007	5.22	<0.0002	0.0004	0.024	0.0019	<0.0002	<0.01	46.700	24.3	0.0041	0.095	0.734	10	0.131	0.016	28.8	2.150
FD-40	9/13/2007	5.32	<0.001	<0.001	0.039	<0.005	<0.005	<0.1	0.058	42.4	<0.005	0.121	0.652	1.07	0.162	<0.05	50.9	3.080
SRK-FD44	6/8/2003	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.04	300	<0.01	0.12	<0.01	0.04	<0.05	0.16	215	5.73
SRK-FD44	5/26/2004	<0.2	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	<0.01	89.1	<0.01	0.016	<0.01	0.101	<0.05	0.062	69.4	0.519
SRK-FD44	5/16/2005	<0.20	<0.20	<0.20	0.011	<0.0050	<0.20	<0.10	0.024	188	<0.010	0.061	0.011	0.041	<0.050	0.124	163	2.61
FD44	5/23/2006	<0.2	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	0.042	149	<0.01	0.123	0.025	1.12	<0.05	0.131	159	5.86
SRK-FD46	9/13/2003	71	<2	<2	<0.1	<0.05	<2	<1	1.8	190	<0.1	1.2	7.8	385	0.9	0.2	293	78.4
SRK-FD47	5/26/2004	13.5	<0.2	<0.2	0.024	0.0126	<0.2	<0.1	0.04	160	0.014	0.584	2.15	98.8	0.861	0.092	65.8	11.7
SRK-FD47	5/18/2005	6.23	<0.20	<0.20	0.018	<0.0050	<0.20	<0.10	0.018	178	<0.010	0.226	0.847	38.2	0.239	0.057	88.2	5.75
FD47	5/23/2006	10.0	<0.2	<0.2	0.023	0.0065	<0.2	<0.1	0.019	104	0.017	0.298	1.66	98.4	0.297	0.057	61.7	6.01
SRK-FD48	5/26/2004	<0.2	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	<0.01	126	<0.01	0.031	<0.01	<0.03	<0.05	0.18	120	1.19
SRK-FD49	5/28/2004	1.17	<0.6	<0.6	<0.03	<0.015	<1.5	<0.3	0.091	368	<0.03	0.56	0.075	0.948	<0.15	0.419	1750	26.3
SRK-FD49	5/18/2005	2.82	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.080	302	<0.010	0.328	0.420	3.75	0.163	0.283	717	11.9
SRK-FD50	5/30/2004	<0.2	<0.2	<0.2	0.024	<0.005	<0.2	<0.1	<0.01	91.9	<0.01	<0.01	<0.01	<0.03	<0.05	0.11	97.7	<0.005
FD50	5/24/2006	<0.2	<0.2	<0.2	0.021	<0.005	<0.2	<0.1	<0.01	80.7	<0.01	<0.01	<0.01	<0.03	<0.05	0.094	99.4	<0.005

Sample ID	Date Sampled	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-FD40	9/13/2002	<0.03	0.12	<0.3	<2	<0.2	8.02	<0.01	3	0.154	<0.2	<0.03	<0.01	<0.03	46.7	3
SRK-FD40	6/6/2003	<0.03	0.1	<0.3	<2	<0.2	5.82	<0.01	2	0.118	<0.2	<0.03	<0.01	<0.03	38.9	3
SRK-FD40	9/12/2003	<0.03	0.06	<0.3	<2	<0.2	9.25	<0.01	3	0.19	<0.2	<0.03	<0.01	<0.03	20.7	2
SRK-FD40	6/3/2004	<0.03	0.268	<0.3	<2	<0.2	12.8	<0.01	4.4	0.404	<0.2	<0.03	<0.01	<0.03	108	3
SRK-FD40	9/26/2004	<0.03	0.156	<0.3	<2	<0.2	9.58	<0.01	4.6	0.362	<0.2	<0.03	<0.01	<0.03	44.2	2
SRK-FD40	5/16/2005	<0.030	0.298	<0.30	<2.0	<0.20	7.00	<0.010	2.4	0.373	<0.20	<0.030	<0.010	<0.030	121	3
SRK-FD40	9/13/2005	<0.030	0.123	<0.30	<2.0	<0.20	9.66	<0.010	4.1	0.295	<0.20	<0.030	<0.010	<0.030	35.3	2
FD40	5/24/2006	<0.03	0.225	<0.3	<2	<0.2	5.72	<0.01	<2	0.256	<0.2	<0.03	<0.01	<0.03	89.5	3
SRK-FD40	9/20/2006	<0.030	0.098	<0.30	<2.0	<0.20	9.19	<0.010	3.0	0.244	<0.20	<0.030	<0.010	<0.030	32.4	2
A30	5/28/2007	0.0002	0.076	<0.03	1.17	0.001	4.12	0.00012	1.6	0.158	0.00027	<0.0002	<0.0002	<0.0002	33.7	3
FD-40	9/13/2007	<0.0005	0.122	<0.3	<2	<0.01	9.11	<0.0001	3.6	0.198	<0.001	<0.001	<0.01	<0.01	40.3	3
SRK-FD44	6/8/2003	<0.03	0.16	<0.3	15	<0.2	1.18	<0.01	11	1.68	<0.2	<0.03	<0.01	<0.03	28.2	2
SRK-FD44	5/26/2004	<0.03	<0.05	<0.3	5.7	<0.2	0.525	<0.01	3.1	0.485	<0.2	<0.03	<0.01	<0.03	3.07	1
SRK-FD44	5/16/2005	<0.030	0.099	<0.30	7.6	<0.20	0.709	<0.010	4.8	0.878	<0.20	<0.030	<0.010	0.033	16.2	2
FD44	5/23/2006	<0.03	0.180	<0.3	6.5	<0.2	0.801	<0.01	3.6	0.761	<0.2	<0.03	<0.01	<0.03	33.9	2
SRK-FD46	9/13/2003	<0.3	1.5	<3	<20	<2	3.7	<0.1	<20	0.33	<2	<0.3	0.1	<0.3	1380	3
SRK-FD47	5/26/2004	<0.03	0.54	<0.3	5.6	<0.2	8.25	<0.01	<2	0.651	<0.2	<0.03	<0.01	<0.03	24.2	3
SRK-FD47	5/18/2005	<0.030	0.224	<0.30	6.1	<0.20	3.52	<0.010	3.1	0.798	<0.20	<0.030	<0.010	<0.030	9.22	3
FD47	5/23/2006	<0.03	0.306	<0.3	3.9	<0.2	4.04	<0.01	<2	0.479	<0.2	<0.03	<0.01	<0.03	10.7	3
SRK-FD48	5/26/2004	<0.03	0.061	<0.3	9.3	<0.2	1.06	<0.01	65.1	1.46	<0.2	<0.03	<0.01	<0.03	10.8	2
SRK-FD49	5/28/2004	<0.09	1.84	<0.9	21.4	<0.6	2.33	<0.03	10.9	1.22	<0.6	<0.09	<0.03	<0.09	73.6	2
SRK-FD49	5/18/2005	<0.030	0.632	<0.30	16.0	<0.20	2.62	<0.010	6.3	0.771	<0.20	<0.030	<0.010	<0.030	73.0	3
SRK-FD50	5/30/2004	<0.03	<0.05	<0.3	8.6	<0.2	0.643	<0.01	8.4	1.19	<0.2	<0.03	<0.01	<0.03	0.0678	1
FD50	5/24/2006	<0.03	<0.05	<0.3	7.5	<0.2	0.552	<0.01	8.7	1.11	<0.2	<0.03	<0.01	<0.03	0.0448	1

Sample ID	Date Sampled	Field Parameters: pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Physical Tests: Cond (uS/cm)	Lab pH	Dissolved Anions: Acidity (to pH 8.3) CaCO3	Alkalinity-Total CaCO3	Chloride Cl	Sulphate SO4	Dissolved Metals: Al	Sb	As	Ba	Be	Bi	B	Cd	Ca
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50	0.20	0.20	0.20	0.010	0.0050	0.20	0.10	0.010	0.050
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SRK-GD01	6/11/2002	6.69	2170	1.8	272	100	2080	7.66	38	337	1.7	1220	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	283
SRK-GD01	9/11/2002	6.91	2490	2.5	272	340	2460	7.27	69	497	1.5	1200	<0.2	<0.2	<0.2	0.06	<0.005	<0.4	<0.1	<0.01	351
SRK-GD01	6/4/2003	6.93	2670	2.4	488	105	2530	7.82	25	534	2.2	1320	<0.2	<0.2	<0.2	0.05	<0.005	<0.2	<0.1	<0.01	316
SRK-GD01	09/14/2003	7.26	2610	2.5	459	150	2530	8.09	16	559	2.4	1210	<0.2	<0.2	<0.2	0.05	<0.005	<0.2	<0.1	<0.01	367
SRK-GD01	5/28/2004	7.71	2110	2.1	414	400	2030	7.44	44.2	255	1.17	1080	<0.2	<0.2	<0.2	0.037	<0.005	<0.2	<0.1	<0.01	259
SRK-GD01	9/23/2004	7.06	2780	3.6	285	180	2700	7.77	23	583	<5	1270	<0.2	<0.2	<0.2	0.043	<0.005	<0.2	<0.1	<0.01	348
SRK-GD01	5/15/2005	7.06	2220	1.6	460		2170	7.69	21.8	290	<5.0	1100	<0.20	<0.20	<0.20	0.051	<0.0050	<0.20	<0.10	<0.010	291
SRK-GD01	9/16/2005	7.63	2540	2.9	402	100	2730	7.79	19.1	566	<5.0	1390	<0.20	<0.20	<0.20	0.035	<0.0050	<0.20	<0.10	<0.010	332
GD 01		6.76	2360	2.5	317	30	3130	7.85	34.9	588	<5	1630	<0.2	<0.2	<0.2	0.040	<0.005	<0.2	<0.1	<0.01	343
GD-01	9/19/2006	7.17	2420	3	187	30	2620	7.63	22.5	552	1.23	1320	<0.20	<0.20	<0.20	0.043	<0.0050	<0.20	<0.10	<0.010	317
GD-01	5/26/07	7.33		2.6	298	2	2880	7.61	65	535	1.28	1460	0.002	0.001	0.003	0.033	<0.0002	<0.0002	<0.01	0.0008	328
GD-01	9/12/07			4.9	71	250	2700	7.68	40.3	570	<50	1370	<0.005	0.001	0.003	0.0327	<0.0025	<0.0025	<0.05	0.0012	349
SRK-GD02	6/11/2002	7.02	2460	3.2	235	30	2430	8.02	19	494	1.8	1100	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.01	302
SRK-GD02	9/11/2002	6.96	2540	4	298	2	1580	7.56	27	278	0.9	665	<0.2	<0.2	<0.2	0.04	<0.005	<0.4	<0.1	<0.01	335
SRK-GD02	9/14/2003	7.2	2650	2.2	444	Trace	2580	8.07	16	574	2.4	1340	<0.2	<0.2	<0.2	0.06	<0.005	<0.2	<0.1	<0.01	380
SRK-GD04	6/11/2002	7.6	3260	2.5	248	1.5	3220	8.06	18	477	1.9	1350	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	<0.01	352
SRK-GD05	6/11/2002	7.74	2670	3.1	273	7.5	2570	8.14	13	527	2.2	1220	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	358
SRK-GD05	9/11/2002	7.45	2550	3.7	292	30	2470	7.88	28	600	1.9	1080	<0.2	<0.2	<0.2	0.02	<0.005	<0.3	<0.1	<0.01	349
SRK-GD05B	6/4/2003	7.8	2550	3.9	421	20	2480	8.04	15	638	2.4	1230	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	312
SRK-GD05B	09/14/2003	7.84	2610	1.7	402	21	2510	8.11	14	627	2.8	1180	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	337
SRK-GD05	5/28/2004	7.83	3180	4.9	399	20	2960	8.03	19.9	583	2.09	1680	<0.2	<0.2	<0.2	0.038	<0.005	<0.2	<0.1	<0.01	392
SRK-GD05	9/24/2004	7.64	3010	4.7	577	10	2930	8.01	4.8	609	<5	1440	<0.2	<0.2	<0.2	0.034	0.0056	<0.2	<0.1	<0.01	361
SRK-GD05	5/15/2005	7.96	2520	3.7	413	8	3240	8.14	10.3	541	<0.50	1760	<0.20	<0.20	<0.20	0.026	<0.0050	<0.20	<0.10	<0.010	363
SRK-GD05	9/16/2005	7.86	2550	6	386	3.6	3010	8.10	9.6	610	<5.0	1620	<0.20	<0.20	<0.20	0.029	<0.0050	<0.20	<0.10	<0.010	477
GD-05	9/19/2006	8.06	2420	4.7	174	4	2820	8.00	10.4	589	<5.0	1460	<0.20	<0.20	<0.20	0.017	<0.0050	<0.20	<0.10	<0.010	310
GD-05	5/26/2007	7.98	2420	9.1	356	2	3730	7.89	39.0	538	2.08	1810	<0.001	0.0018	0.0049	0.021	<0.0002	<0.0002	<0.01	0.0003	433
GD-05	9/12/2007			6.2	70	6	2880	8.08	17.0	592	<50	1640	<0.005	0.002	0.0049	0.017	<0.0025	<0.0025	<0.05	0.0006	375
SRK-GD06	6/11/2002	7.62	2640	3.5	269	15	2540	8.1	17	557	2.5	947	<0.2	<0.2	<0.2	0.03	<0.005	<0.3	<0.1	<0.01	361
SRK-GD06	9/11/2002	7.35	2540	3.1	314	30	2480	8	26	700	1.8	1040	<0.2	<0.2	<0.2	0.03	<0.005	<0.3	<0.1	<0.01	348
SRK-GD06	6/4/2003	7.67	2510	3.1	473	-	2430	8.02	18	643	2.6	1150	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	337
SRK-GD06	9/14/2003	7.74	2540	3.1	486	15	2500	8.28	1	646	2.5	1120	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	325
GD-06	5/26/07	7.69	2430	3.4	321	trace	3570	7.95	40	677	2.08	1710	<0.001	0.0013	0.0054	0.026	<0.0002	<0.0002	<0.01	0.0007	466
GD-06	9/12/07			3.8	68	2	2820	8.04	21.9	635	<50	1420	<0.005	0.0011	0.0043	0.0192	<0.0025	<0.0025	<0.05	0.0015	385
SRK-GD07	6/11/2002	7.24	1267	3.1	254	5	1210	8.18	6	336	2	413	<0.2	<0.2	<0.2	0.07	<0.005	<0.2	<0.1	<0.01	178
SRK-GD07B	9/11/2002	6.87	1332	3.7	2.45	2	1250	7.51	40	405	1.8	362	<0.2	<0.2	<0.2	0.11	<0.005	<0.2	<0.1	<0.01	205
SRK-GD07	6/4/2003	7.37	1328	2.4	424	10	1300	7.73	15	338	1.9	575	<0.2	<0.2	<0.2	0.05	<0.005	<0.2	<0.1	<0.01	194
SRK-GD07	9/14/2003	6.97	1373	5		Trace	1360	8.08	9	405	2.5	455	<0.2	<0.2	<0.2	0.06	<0.005	<0.2	<0.1	<0.01	219
SRK-GD07	9/24/2004	7.1	1421	5.2	281	1	1380	7.92	12.2	433	<5	428	<0.2	<0.2	<0.2	0.061	<0.005	<0.2	<0.1	<0.01	208
SRK-GD08	6/11/2002	7.85	555	0.8	235	1	542	8.31	<1	209	2.3	88	<0.2	<0.2	<0.2	0.08	<0.005	<0.2	<0.1	<0.01	75.3
SRK-GD09	6/11/2002	7.6	1031	4.6	238	3	999	8.22	3	379	2.1	194	<0.2	<0.2	<0.2	0.11	<0.005	<0.2	<0.1	<0.01	142
SRK-GD10	6/11/2002	7.65	385	5.6	256	-0.5	384	8.3	<1	186	1.3	26	<0.2	<0.2	<0.2	0.05	<0.005	<0.2	<0.1	<0.01	45.4
SRK-GD11	6/11/2002	6.67	1586	2.5	232	54	1570	7.69	31	371	2.1	593	<0.2	<0.2	<0.2	0.05	<0.005	<0.2	<0.1	<0.01	201
SRK-GD11	6/4/2003	6.84	1660	3.2	434	7.5	1610	7.59	23	413	2.3	715	<0.2	<0.2	<0.2	0.03	<0.005	<0.2	<0.1	<0.01	208
SRK-GD11	5/29/2004	6.65	1086	2.1	431	360	1040	7.46	33.2	282	0.75	332	<0.2	<0.2	<0.2	0.021	<0.005	<0.2	<0.1	<0.01	115
SRK-GD11	9/16/2005	6.8	2320	4.1	401	1	2210	7.61	23.2	500	<5.0	1120	<0.20	<0.20	<0.20	0.042	<0.0050	<0.20	<0.10	<0.010	354
GD11	5/25/2006	6.45	1450	2.8	169	42	1450	7.31	45.9	324	0.52	566	<0.2	<0.2	<0.2	0.024	<0.005	<0.2	<0.1	<0.01	170
GD-11	5/27/2007	6.87	1515	2.5	318	1	1700	7.14	131.0	341	<1	637	0.004	0.0009	0.0013	0.018	<0.0002	<0.0002	<0.01	0.0024	179

Sample ID	Date Sampled	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level	0.010	0.010	0.010	0.030	0.050	0.010	0.10	0.0050	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-GD01	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	141	0.059	<0.03	0.26	<0.3	5	<0.2	3.98	<0.01	7	0.914	<0.2	<0.03	<0.01	<0.03	5.07	1b
SRK-GD01	9/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	216	0.062	<0.03	0.29	<0.3	8	<0.2	4.09	<0.01	9	1.31	<0.2	<0.03	<0.01	<0.03	2.48	1b
SRK-GD01	6/4/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	223	0.044	<0.03	0.43	<0.3	8	<0.2	4.36	<0.01	10	1.3	<0.2	<0.03	<0.01	<0.03	4.58	1b
SRK-GD01	09/14/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	233	0.053	<0.03	0.34	<0.3	8	<0.2	4.46	<0.01	10	1.48	<0.2	<0.03	<0.01	<0.03	2.98	1b
SRK-GD01	5/28/2004	<0.01	0.05	<0.01	<0.03	<0.05	0.018	146	0.998	<0.03	0.43	<0.3	5.4	<0.2	2.83	<0.01	5	0.912	<0.2	<0.03	<0.01	<0.03	17.2	1b
SRK-GD01	9/23/2004	<0.01	<0.01	<0.01	<0.03	<0.05	0.027	239	0.056	<0.03	0.351	<0.3	8.3	<0.2	4.08	<0.01	10.1	1.36	<0.2	<0.03	<0.01	<0.03	3.69	1b
SRK-GD01	5/15/2005	<0.010	0.016	<0.010	<0.030	<0.050	0.022	173	0.353	<0.030	0.295	<0.30	4.2	<0.20	2.93	<0.010	5.3	0.897	<0.20	<0.030	<0.010	0.037	10.7	1b
SRK-GD01	9/16/2005	<0.010	<0.010	<0.010	<0.030	<0.050	0.022	248	0.0502	<0.030	0.355	<0.30	5.7	<0.20	3.90	<0.010	9.1	1.14	<0.20	<0.030	<0.010	<0.050	3.11	1b
GD 01		<0.01	<0.01	<0.01	0.038	<0.05	0.015	289	0.0828	<0.03	0.336	<0.3	8.0	<0.2	3.23	<0.01	11.1	1.19	<0.2	<0.03	<0.01	<0.03	3.10	1b
GD-01	9/19/2006	<0.010	<0.010	<0.010	<0.030	<0.050	0.030	253	0.0449	<0.030	0.334	<0.30	6.9	<0.20	3.83	<0.010	10.0	1.23	<0.20	0.099	<0.010	<0.030	2.76	1b
GD-01	5/26/07	<0.0002	0.0026	0.0033	0.77	0.0013	0.032	280	0.03	0.0012	0.337	<0.03	7.18	0.0027	4.57	<0.00005	10.3	1.19	0.0003	<0.0002	0.0005	0.0005	2.59	1b
GD-01	9/12/07	<0.0025	0.0013	0.002	<0.03	0.0015	0.027	274	0.0299	0.0009	0.278	<0.3	7.5	<0.005	4.16	<0.00005	10.3	1.29	<0.0005	<0.0005	<0.01	<0.005	2.6	1b
SRK-GD02	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	206	0.121	<0.03	0.34	<0.3	8	<0.2	3.74	<0.01	10	1.2	<0.2	<0.03	<0.01	<0.03	2.76	1b
SRK-GD02	9/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.01	213	0.114	<0.03	0.32	<0.3	7	<0.2	3.89	<0.01	9	1.26	<0.2	<0.03	<0.01	<0.03	2.31	1b
SRK-GD02	9/14/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.01	251	<0.005	<0.03	0.29	<0.3	8	<0.2	4.45	<0.01	10	1.58	<0.2	<0.03	<0.01	<0.03	2.31	1b
SRK-GD04	6/11/2002	<0.01	0.03	<0.01	<0.03	<0.05	0.04	347	0.207	<0.03	0.42	<0.3	10	<0.2	3.65	<0.01	16	1.59	<0.2	<0.03	<0.01	<0.03	3.68	1b
SRK-GD05	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.04	211	0.189	<0.03	0.59	<0.3	8	<0.2	5.66	<0.01	14	1.52	<0.2	<0.03	<0.01	<0.03	3.54	1b
SRK-GD05	9/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	199	0.008	<0.03	0.51	<0.3	7	<0.2	6.06	<0.01	11	1.41	<0.2	<0.03	<0.01	<0.03	2.65	1b
SRK-GD05B	6/4/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	199	0.007	<0.03	0.38	<0.3	7	<0.2	5.51	<0.01	12	1.36	<0.2	<0.03	<0.01	<0.03	1.73	1b
SRK-GD05B	09/14/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	212	0.013	<0.03	0.44	<0.3	7	<0.2	5.66	<0.01	11	1.48	<0.2	<0.03	<0.01	<0.03	2.02	1b
SRK-GD05	5/28/2004	<0.01	<0.01	<0.01	<0.03	<0.05	0.043	269	0.0931	<0.03	0.644	<0.3	7.8	<0.2	5.48	<0.01	12.8	1.68	<0.2	0.033	<0.01	<0.03	4.92	1b
SRK-GD05	9/24/2004	<0.01	<0.01	<0.01	<0.03	<0.05	0.052	263	0.009	<0.03	0.705	<0.3	8.3	<0.2	5.07	<0.01	13.5	1.6	<0.2	<0.03	<0.01	<0.03	4.21	1b
SRK-GD05	5/15/2005	<0.010	<0.010	<0.010	<0.030	<0.050	0.044	298	0.0130	<0.030	0.540	<0.30	6.4	<0.20	3.90	<0.010	12.8	1.42	<0.20	<0.030	<0.010	0.059	2.99	1b
SRK-GD05	9/16/2005	<0.010	<0.010	<0.010	<0.030	<0.050	0.056	341	0.0127	<0.030	0.917	<0.30	8.9	<0.20	6.25	0.011	17.9	1.81	<0.20	<0.030	<0.010	<0.070	5.16	1b
GD-05	9/19/2006	<0.010	<0.010	<0.010	<0.030	<0.050	0.034	234	<0.0050	<0.030	0.448	<0.30	5.5	<0.20	4.29	<0.010	11.2	1.17	<0.20	0.092	<0.010	<0.030	2.13	1b
GD-05	5/26/2007	<0.0002	0.001	0.0027	0.8	0.0008	0.033	330	0.0048	0.0012	0.413	<0.03	6.7	0.0032	5.84	<0.00005	13.5	1.59	0.0004	<0.0002	0.0005	0.00	1.16	1b
GD-05	9/12/2007	<0.0025	0.0006	0.0016	<0.03	0.0015	0.038	284	0.0059	0.001	0.413	<0.3	7.0	<0.005	5.30	<0.00005	13.3	1.48	<0.0005	<0.0005	0.01	<0.005	1.83	1b
SRK-GD06	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.04	209	0.23	<0.03	0.52	<0.3	9	<0.2	5.87	<0.01	14	1.56	<0.2	0.04	<0.01	<0.03	3.94	1b
SRK-GD06	9/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	196	0.008	<0.03	0.42	<0.3	7	<0.2	6.07	<0.01	11	1.39	<0.2	<0.03	<0.01	<0.03	2.73	1b
SRK-GD06	6/4/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	214	0.011	<0.03	0.38	<0.3	7	<0.2	6.15	<0.01	13	1.49	<0.2	<0.03	<0.01	<0.03	2.39	1b
SRK-GD06	9/14/2003	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	199	0.008	<0.03	0.41	<0.3	7	<0.2	5.64	<0.01	11	1.41	<0.2	<0.03	<0.01	<0.03	2.34	1b
GD-06	5/26/07	<0.0002	0.0004	0.0021	0.71	0.0008	0.028	320	0.0016	0.0006	0.428	<0.03	6.4	0.0031	5.87	<0.00005	12.3	1.63	0.0003	<0.0002	0.0005	0.0008	1.93	1b
GD-06	9/12/07	<0.0025	<0.0005	0.002	<0.03	0.001	0.035	272	0.0027	0.0005	0.449	<0.3	6.8	<0.005	5.52	<0.00005	13.4	1.47	<0.0005	<0.0005	0.01	<0.005	2.71	1b
SRK-GD07	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	69.6	<0.005	<0.03	<0.05	<0.3	4	<0.2	3.79	<0.01	3	0.604	<0.2	<0.03	<0.01	<0.03	0.021	1a
SRK-GD07B	9/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	63.6	1.92	<0.03	<0.05	<0.3	2	<0.2	4.61	<0.01	3	0.719	<0.2	<0.03	<0.01	<0.03	0.01	1a
SRK-GD07	6/4/2003	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	79.1	<0.005	<0.03	<0.05	<0.3	3	<0.2	4	<0.01	3	0.656	<0.2	<0.03	<0.01	<0.03	0.008	1a
SRK-GD07	9/14/2003	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	74.1	0.007	<0.03	<0.05	<0.3	3	<0.2	5.08	<0.01	3	0.75	<0.2	<0.03	<0.01	<0.03	<0.005	1a
SRK-GD07	9/24/2004	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	72.1	0.011	<0.03	<0.05	<0.3	2.2	<0.2	4.67	<0.01	2.8	0.712	<0.2	<0.03	<0.01	<0.03	<0.005	1a
SRK-GD08	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	26.8	<0.005	<0.03	<0.05	<0.3	<2	<0.2	3.64	<0.01	<2	0.365	<0.2	<0.03	<0.01	<0.03	<0.005	1a
SRK-GD09	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	54.5	<0.005	<0.03	<0.05	<0.3	<2	<0.2	3.23	<0.01	<2	0.492	<0.2	<0.03	<0.01	<0.03	<0.005	1a
SRK-GD10	6/11/2002	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	24.2	<0.005	<0.03	<0.05	<0.3	<2	<0.2	3.32	<0.01	<2	0.205	<0.2	<0.03	<0.01	<0.03	<0.005	1a
SRK-GD11	6/11/2002	<0.01	<0.01	0.01	<0.03	<0.05	0.02	108	0.26	<0.03	0.22	<0.3	4	<0.2	3.39	<0.01	4	0.815	<0.2	<0.03	<0.01	<0.03	2.11	1b
SRK-GD11	6/4/2003	<0.01	<0.01	0.01	<0.03	<0.05	0.01	121	0.425	<0.03	0.28	<0.3	3	<0.2	3.83	<0.01	5	0.864	<0.2	<0.03	<0.01	<0.03	3.75	1b
SRK-GD11	5/29/2004	<0.01	0.032	0.041	<0.03	<0.05	<0.01	69.8	0.618	<0.03	0.272	<0.3	2.5	<0.2	2.53	<0.01	<2	0.487	<0.2	<0.03	<0.01	<0.03	5.48	1b
SRK-GD11	9/16/2005	<0.010	<0.010	0.041	<0.030	<0.050	0.020	206	0.455	<0.030	0.336	<0.30	4.1	<0.20	4.66	<0.010	7.1	1.26	<0.20	<0.030	<0.010	<0.050	6.83	1b
GD11	5/25/2006	<0.01	0.099	0.061	<0.03	<0.05	0.011	128	2.05	<0.03	0.526	<0.3	3.4	<0.2	2.81	<0.01	3.9	0.682	<0.2	<0.03	<0.01	<0.03	17.4	2
GD-11	5/27/2007	<0.0002	0.030	0.048	0.41	0.004	0.017	137	0.73	0.0006	0.313	<0.03	2.7	0.0018	3.83	<0.00005	3.7	0.614	0.0005	<0.0002	0.0003	00.0	8.02	2

Sample ID	Date Sampled	Field Parameters pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Physical Tests Cond (uS/cm)	Lab pH	Dissolved Anions Acidity (to pH 8.3) CaCO3	Alkalinity-Total CaCO3	Chloride Cl	Sulphate SO4	Dissolved Metals Al	Sb	As
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50	0.20	0.20	0.20
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SRK-GD12	9/11/2002	7.47	648	2.8	335	300	6300	7.87	13	268	<0.5	83	<0.2	<0.2	<0.2
SRK-GD12	6/4/2003	7.76	538	1.7	379	-	517	7.95	5	227	1.3	7	<0.2	<0.2	<0.2
SRK-GD12	9/14/2003	7.8	621	3.6	475	9	618	8.31	<1	289	1.7	81	<0.2	<0.2	<0.2
SRK-GD12	5/29/2004	7.36	370	3	400	240	392	8.1	2.7	168	0.77	46.9	<0.2	<0.2	<0.2
SRK-GD12	9/24/2004	7.77	608	4.8	333	1	658	8.21	1.8	285	<2.5	95.8	<0.2	<0.2	<0.2
SRK-GD13	9/12/2002	7.8	1190	4.6	201	10	1190	7.73	29	388	0.9	386	<0.2	<0.2	<0.2
SRK-GD13	6/4/2003	7.35	1178	1.5	414	4	1150	8.05	7	402	1.4	313	<0.2	<0.2	<0.2
SRK-GD13	9/14/2003	7.26	1268	1.6	418	9	1230	8.24	2	392	1.6	338	<0.2	<0.2	<0.2
SRK-GD13	5/28/2004	7.65	1212	1.9	417	15	1080	7.94	12.2	269	1.05	360	<0.2	<0.2	<0.2
SRK-GD13	9/24/2004	7.41	1500	3.7	519	8	1500	8.04	8.6	447	<5	468	<0.2	<0.2	<0.2
SRK-GD13	5/18/2005					53	1510	7.93	10.9	311	0.66	561	<0.20	<0.20	<0.20
SRK-GD13	9/16/2005	7.36	1704	2.3	406	2	1600	8.06	7.6	427	<5.0	620	<0.20	<0.20	<0.20
GD13	5/25/2006	6.9	1899	2.5	245	36.4	1880	7.83	17.7	463	<2.5	731	<0.2	<0.2	<0.2
GD-13	9/19/2006	7.26	1813	2.1	189	2	1800	7.84	12.2	473	0.89	649	<0.20	<0.20	<0.20
GD-13	5/27/2007	7.7	1577	0.8	296	12	1810	7.96	18.0	332	<1	661	0.003	0.0004	0.0029
GD-13	9/13/2007	7.35	2080	3	111	10	2030	8.03	13.2	474	1.06	836	<0.005	0.0006	0.0029
SRK-GD16	5/28/2004	7.47	3280	3.4	504	30	3040	7.72	43	619	2.14	1680	<0.2	<0.2	<0.2
SRK-GD16	5/18/2005	7.28			439	2.1	3480	7.62	93.2	602	<5.0	2090	<0.20	<0.20	<0.20
GD-16	5/26/07	7.6	2400	3.6	322	trace	3710	7.67	92	659	2.6	1730	0.002	0.0006	0.0048
SRK-GD17	5/28/2004	7.44	3990	5.1	397	15	3740	7	158	195	1.99	2770	<0.2	<0.2	<0.2
GD17	5/25/2006	7.39	2330	5.8	118	3	3000	7.67	57.6	177	<2.5	1990	<0.2	<0.2	<0.2
GD-17	5/27/2007	7.42	2430	3.4	387	5	4480	7.79	22.0	253	2.76	2670	<0.001	0.0013	0.0009
SRK-GD18	5/28/2004	7.74	741	3	403	15	742	8.07	5.9	108	0.74	302	<0.2	<0.2	<0.2
SRK-GD18	5/18/2005	6.73		3	399	97.5	1040	8.09	6.5	141	<0.50	458	<0.20	<0.20	<0.20
GD18	5/25/2006	7.07	953	2.1	259	50	950	7.92	6.6	115	<0.5	418	<0.2	<0.2	<0.2
GD-18	5/27/07	7.67	1109	0.6	292	12	1090	7.69	14	151	<1	535	0.014	0.0006	0.0076
SRK-GD19	5/29/2004	5.73	2580	1.1	336	30	2500	5.75	238	38.7	0.58	1710	0.28	<0.2	<0.2
GD-19	5/26/2007	7.63	1692	1.3	34	trace	1910	7.74	7	109	<1	1050	<0.001	0.0005	0.0006
SRK-GD20	5/29/2004	6.2	2450	1.7	322	30	2410	7.59	198	130	0.9	1530	<0.2	<0.2	<0.2
GD20	5/25/2006	7.37	2390	9.8	109	trace	2580	7.87	12.6	132	<2.5	1700	<0.2	<0.2	<0.2
SRK-GD21	5/28/2004	7.47	3390	3.4	394	7.5	3140	7.86	27.6	393	1.26	1990	<0.2	<0.2	<0.2
SRK-GD21	9/24/2004	7.1	3860	4	536	Trace	3770	8.1	6.3	628	<5	2170	<0.2	<0.2	<0.2
SRK-GD21	5/15/2005	7.74	2490	2.7	438	6	2950	8.10	7.9	356	<5.0	1770	<0.20	<0.20	<0.20
GD21	5/25/2006	7.85	2370	10.5	118	trace	2890	8.08	9.8	400	<2.5	1670	<0.2	<0.2	<0.2
GD-21	5/26/2007	8.14	2420	11	364	trickle	3500	8.17	8.0	470	<2	1820	0.001	0.0022	0.0033

Sample ID	Date Sampled	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg
	Min. detection level	0.010	0.0050	0.20	0.10	0.010	0.050	0.010	0.010	0.010	0.030	0.050	0.010	0.10
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SRK-GD12	9/11/2002	0.1	<0.005	<0.2	<0.1	<0.01	86.3	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	40.4
SRK-GD12	6/4/2003	0.07	<0.005	<0.2	<0.1	<0.01	60.9	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	34.2
SRK-GD12	9/14/2003	0.09	<0.005	<0.2	<0.1	<0.01	75.5	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	39
SRK-GD12	5/29/2004	0.049	<0.005	<0.2	<0.1	<0.01	41.6	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	23
SRK-GD12	9/24/2004	0.088	<0.005	<0.2	<0.1	<0.01	77.8	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	38.6
SRK-GD13	9/12/2002	0.11	<0.005	<0.2	<0.1	<0.01	168	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	71.4
SRK-GD13	6/4/2003	0.09	<0.005	<0.2	<0.1	<0.01	153	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	70.6
SRK-GD13	9/14/2003	0.11	<0.005	<0.2	<0.1	<0.01	178	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	80.8
SRK-GD13	5/28/2004	0.098	<0.005	<0.2	<0.1	<0.01	142	<0.01	0.012	<0.01	0.205	<0.05	<0.01	66.1
SRK-GD13	9/24/2004	0.118	<0.005	<0.2	<0.1	<0.01	206	<0.01	<0.01	<0.01	<0.03	<0.05	0.014	94
SRK-GD13	5/18/2005	0.084	<0.0050	<0.20	<0.10	<0.010	198	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	109
SRK-GD13	9/16/2005	0.105	<0.0050	<0.20	<0.10	<0.010	286	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	136
GD13	5/25/2006	0.066	<0.005	<0.2	<0.1	<0.01	256	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	156
GD-13	9/19/2006	0.077	<0.0050	<0.20	<0.10	<0.010	235	<0.010	<0.010	<0.010	<0.030	<0.050	0.012	139
GD-13	5/27/2007	0.047	<0.0002	<0.0002	<0.01	2E-05	212	<0.0002	0.0014	0.001	0.43	<0.0002	0.010	129
GD-13	9/13/2007	0.057	<0.0025	<0.0025	<0.05	<0.00025	278	<0.0025	<0.0005	0.001	<0.03	<0.00025	<0.025	179
SRK-GD16	5/28/2004	0.041	<0.005	<0.2	<0.1	<0.01	382	<0.01	0.03	<0.01	<0.03	<0.05	0.048	253
SRK-GD16	5/18/2005	0.032	<0.0050	<0.20	<0.10	0.089	416	<0.010	0.096	0.026	<0.030	<0.050	0.045	338
GD-16	5/26/07	0.027	<0.0002	<0.0002	<0.01	0.0084	461	<0.0002	0.0084	0.0041	0.86	0.0049	0.022	302
SRK-GD17	5/28/2004	0.014	<0.005	<0.2	<0.1	0.061	356	<0.01	0.214	<0.01	<0.03	<0.05	0.088	413
GD17	5/25/2006	<0.01	<0.005	<0.2	<0.1	0.027	288	<0.01	0.121	<0.01	<0.03	<0.05	0.060	319
GD-17	5/27/2007	0.0066	<0.0002	<0.0002	<0.01	0.009	351	<0.0002	0.041	0.0015	0.75	0.0082	0.095	490
SRK-GD18	5/28/2004	0.023	<0.005	<0.2	<0.1	<0.01	80.4	<0.01	<0.01	<0.01	<0.03	<0.05	0.014	43.8
SRK-GD18	5/18/2005	0.024	<0.0050	<0.20	<0.10	<0.010	129	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	78.2
GD18	5/25/2006	0.024	<0.005	<0.2	<0.1	<0.01	123	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	68.6
GD-18	5/27/07	0.015	<0.0002	<0.0002	<0.01	0.0001	116	<0.0002	0.0025	0.0038	0.26	0.0003	0.01	97.1
SRK-GD19	5/29/2004	0.011	<0.005	<0.2	<0.1	0.178	321	<0.01	0.696	2.11	46.4	0.135	0.045	167
GD-19	5/26/2007	0.0086	<0.0002	<0.0002	<0.01	0.007	269	<0.0002	0.011	0.0026	0.49	0.0012	0.024	112
SRK-GD20	5/29/2004	0.012	<0.005	<0.2	<0.1	0.063	346	<0.01	0.446	0.12	27.3	<0.05	0.027	150
GD20	5/25/2006	0.013	<0.005	<0.2	<0.1	<0.01	249	<0.01	0.030	<0.01	<0.03	<0.05	0.065	308
SRK-GD21	5/28/2004	0.036	<0.005	<0.2	<0.1	<0.01	315	<0.01	0.026	<0.01	<0.03	<0.05	0.066	403
SRK-GD21	9/24/2004	0.016	<0.005	<0.2	<0.1	<0.01	365	<0.01	<0.01	<0.01	<0.03	<0.05	0.041	438
SRK-GD21	5/15/2005	0.025	<0.0050	<0.20	<0.10	<0.010	277	<0.010	0.012	<0.010	<0.030	<0.050	0.047	340
GD21	5/25/2006	0.018	<0.005	<0.2	<0.1	<0.01	287	<0.01	0.014	<0.01	<0.03	<0.05	0.043	342
GD-21	5/26/2007	0.020	<0.0002	<0.0002	<0.01	0.0008	346	<0.0002	0.006	0.0023	0.63	0.0008	0.034	362

Sample ID	Date Sampled	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level	0.0050	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-GD12	9/11/2002	0.028	<0.03	<0.05	<0.3	<2	<0.2	4.02	<0.01	2	0.329	<0.2	<0.03	<0.01	<0.03	<0.005	**1a**
SRK-GD12	6/4/2003	<0.005	<0.03	<0.05	<0.3	<2	<0.2	3.34	<0.01	<2	0.256	<0.2	<0.03	<0.01	<0.03	<0.005	**1a**
SRK-GD12	9/14/2003	<0.005	<0.03	<0.05	<0.3	<2	<0.2	4.23	<0.01	<2	0.322	<0.2	<0.03	<0.01	<0.03	<0.005	**1a**
SRK-GD12	5/29/2004	<0.005	<0.03	<0.05	<0.3	<2	<0.2	2.72	<0.01	<2	0.185	<0.2	<0.03	<0.01	<0.03	<0.005	**1a**
SRK-GD12	9/24/2004	0.0273	<0.03	<0.05	<0.3	<2	<0.2	3.97	<0.01	<2	0.327	<0.2	<0.03	<0.01	<0.03	<0.005	**1a**
SRK-GD13	9/12/2002	0.007	<0.03	<0.05	<0.3	3	<0.2	5.69	<0.01	3	0.823	<0.2	<0.03	<0.01	<0.03	0.028	**1a**
SRK-GD13	6/4/2003	0.053	<0.03	0.07	<0.3	<2	<0.2	5.05	<0.01	3	0.788	<0.2	<0.03	<0.01	<0.03	0.007	**1a**
SRK-GD13	9/14/2003	<0.005	<0.03	<0.05	<0.3	<2	<0.2	5.32	<0.01	4	0.9	<0.2	<0.03	<0.01	<0.03	0.007	**1a**
SRK-GD13	5/28/2004	0.608	<0.03	0.129	<0.3	<2	<0.2	3.75	<0.01	2.4	0.758	<0.2	<0.03	<0.01	<0.03	0.0114	**1a**
SRK-GD13	9/24/2004	<0.005	<0.03	0.13	<0.3	2.6	<0.2	5.83	<0.01	3.7	1.04	<0.2	<0.03	<0.01	<0.03	0.0159	**1a**
SRK-GD13	5/18/2005	0.0694	<0.030	0.098	<0.30	2.4	<0.20	4.38	<0.010	4.5	0.983	<0.20	<0.030	<0.010	<0.030	0.0186	**1a**
SRK-GD13	9/16/2005	<0.0050	<0.030	0.107	<0.30	2.4	<0.20	6.22	<0.010	4.9	1.17	<0.20	<0.030	<0.010	<0.050	0.0229	**1a**
GD13	5/25/2006	0.0420	<0.03	0.132	<0.3	3.5	<0.2	5.08	<0.01	5.9	1.30	<0.2	<0.03	<0.01	<0.03	0.0258	**1a**
GD-13	9/19/2006	<0.0050	<0.030	0.088	<0.30	2.3	<0.20	5.21	<0.010	4.5	1.02	<0.20	0.051	<0.010	<0.030	0.0175	**1a**
GD-13	5/27/2007	0.058	0.0014	0.085	<0.03	2.8	0.0023	5.04	<0.00005	4.2	0.92	3E-05	<0.0002	0.0004	0.0004	0.011	**1a**
GD-13	9/13/2007	0.0014	0.0016	0.067	<0.3	3.3	<0.005	5.55	<0.00005	5.8	1.25	<0.0005	<0.0005	<0.01	<0.005	0.0162	**1a**
SRK-GD16	5/28/2004	1.75	<0.03	0.701	<0.3	7	<0.2	4.59	<0.01	12	1.67	<0.2	<0.03	<0.01	<0.03	10.4	**2**
SRK-GD16	5/18/2005	4.93	<0.030	0.501	<0.30	6.1	<0.20	6.71	<0.010	15.4	1.69	<0.20	<0.030	<0.010	<0.030	59.9	**2**
GD-16	5/26/07	0.688	0.0008	0.214	<0.03	4.29	0.0033	8.28	<0.00005	12.9	1.51	0.0006	<0.0002	0.0006	0.0007	16.5	**2**
SRK-GD17	5/28/2004	3.1	<0.03	1.08	<0.3	11.5	<0.2	1.31	<0.01	6.2	1.21	<0.2	<0.03	<0.01	<0.03	110	**2**
GD17	5/25/2006	1.47	<0.03	0.507	<0.3	9.4	<0.2	0.991	<0.01	5.4	0.916	<0.2	<0.03	<0.01	<0.03	42.2	**2**
GD-17	5/27/2007	0.21	0.0038	0.307	<0.03	12.8	0.0043	1.310	<0.00005	7.6	0.955	0.0057	<0.0002	0.0005	<0.0002	12.2	**2**
SRK-GD18	5/28/2004	0.038	<0.03	0.051	<0.3	3	<0.2	1.57	<0.01	<2	0.359	<0.2	<0.03	<0.01	<0.03	0.105	**1a**
SRK-GD18	5/18/2005	0.0416	<0.030	<0.050	<0.30	3.9	<0.20	1.89	<0.010	3.3	0.527	<0.20	<0.030	<0.010	<0.030	0.389	**1a**
GD18	5/25/2006	0.0527	<0.03	<0.05	<0.3	4.1	<0.2	1.46	<0.01	4.3	0.498	<0.2	<0.03	<0.01	<0.03	0.132	**1a**
GD-18	5/27/07	0.029	0.0013	0.05	0.06	3.65	0.0045	3.07	<0.00005	2.81	0.472	0.0001	<0.0002	0.0005	0.0004	0.03	**1a**
SRK-GD19	5/29/2004	7.52	<0.03	2.65	<0.3	6.5	<0.2	3.69	<0.01	4.5	1.02	<0.3	<0.03	<0.01	<0.03	107	**3**
GD-19	5/26/2007	0.11	0.0044	0.161	<0.03	6.55	0.0029	1.01	<0.00005	2.29	0.768	0.0044	<0.0002	0.0002	<0.0002	7.65	**2**
SRK-GD20	5/29/2004	6.62	<0.03	1.46	<0.3	6.5	<0.2	4.04	<0.01	4.7	1.32	<0.2	<0.03	<0.01	<0.03	97.9	**2**
GD20	5/25/2006	0.576	<0.03	0.104	<0.3	19.6	<0.2	0.535	<0.01	7.4	0.744	<0.2	<0.03	<0.01	<0.03	9.23	**2**
SRK-GD21	5/28/2004	0.271	<0.03	0.345	<0.3	12.3	<0.2	2.3	<0.01	14.9	1.53	<0.2	<0.03	<0.01	<0.03	2.52	**1b**
SRK-GD21	9/24/2004	0.0619	<0.03	0.409	<0.3	10	<0.2	3.89	<0.01	17.1	1.63	<0.2	<0.03	<0.01	<0.03	1.82	**1b**
SRK-GD21	5/15/2005	0.0983	<0.030	0.290	<0.30	8.2	<0.20	1.66	<0.010	11.4	1.16	<0.20	<0.030	<0.010	0.053	2.63	**1b**
GD21	5/25/2006	0.0643	<0.03	0.330	<0.3	10.0	<0.2	2.18	<0.01	12.2	1.28	<0.2	<0.03	<0.01	<0.03	3.42	**1b**
GD-21	5/26/2007	0.0190	0.0033	0.253	<0.03	08.3	0.0045	3.24	<0.00005	10.8	1.34	0.0005	<0.0002	0.0004	0.00	1.08	**1b**

Appendix A.3 2002-2007 Waste Rock Seepage Results- Vangorda

Sample ID	Date Sampled	pH (WTW)	Cond (uS/cm)	Temp (C)	ORP (mV)	Flow (L/min)	Cond (uS/cm)	Lab pH	Acidity (to pH 8.3) CaCO3	Alkalinity-Total CaCO3	Chloride Cl	Sulphate SO4	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Water Type
	Min. detection level						2.0	0.010	1.0	1.0	0.50	0.50	0.20	0.20	0.20	0.010	0.0050	0.20	0.10	0.010	0.050	0.010	0.010	0.010	0.030	0.050	0.010	0.10	0.0050	0.030	0.050	0.30	2.0	0.20	0.050	0.010	2.0	0.0050	0.20	0.030	0.010	0.030	0.0050	
	Units	s.u.	uS/cm	0C	mV	L/min	uS/cm	s.u.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
SRK-VD01	6/10/2002	6.43	3120	10	136	Trace Flow	3080	7.23	115	38	<0.5	2340	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.12	261	<0.01	0.23	<0.01	0.25	0.1	0.07	370	16.4	<0.03	0.78	<0.3	8	<0.2	1.73	<0.01	5	1.89	<0.3	<0.03	<0.01	<0.03	71.6	2
SRK-VD01	6/6/2003	6.83	2780	11.4	390	Trace	3210	6.62	224	27	<0.5	2880	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.28	329	<0.01	0.49	<0.01	0.12	0.07	0.07	408	31.2	<0.03	1.2	<0.3	6	<0.2	1.75	<0.01	3	1.69	<0.2	<0.03	<0.01	<0.03	125	2
SRK-VD01	5/29/2004	6.38	966	7.7	325	3	646	6.38	38	13.7	<0.5	323	<0.2	<0.2	<0.2	0.026	<0.005	<0.2	<0.1	0.044	71.1	<0.01	0.082	0.016	1.2	<0.05	<0.01	54.6	4.97	<0.03	0.216	<0.3	<2	<0.2	0.861	<0.01	<2	0.374	<0.2	<0.03	<0.01	<0.03	24.5	2
SRK-VD01	5/17/2005	5.41	2260	3.8	466	1	2280	4.12	213	<2.0	<0.50	1550	2.24	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.136	210	<0.010	0.303	0.311	6.64	0.334	0.054	213	19.7	<0.030	0.751	<0.30	4.0	<0.20	2.40	<0.010	2.3	1.06	<0.20	<0.030	<0.010	<0.030	86.6	3
VD 01	5/28/2006	6.7	2170	2.5	121	trace	2330	7.43	150	16.9	<2.5	1530	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.129	220	<0.01	0.288	0.028	0.897	0.114	0.040	232	19.2	<0.03	0.896	<0.3	3.7	<0.2	1.58	<0.01	<2	0.948	<0.2	<0.03	<0.01	<0.03	83.5	2
VD-01	5/27/07	6.73	820	1.4	324	trickle	770	6.07	54	5.9	<0.4	427	0.074	<0.001	<0.001	0.032	<0.001	<0.001	<0.05	0.0437	68.7	<0.001	0.081	0.072	2.21	0.11	0.024	48.3	5.27	0.0005	0.26	<0.15	1.2	<0.001	1.4	<0.00025	0.61	0.28	0.0005	<0.001	<0.001	<0.001	33.6	2
SRK-VD02	6/10/2002	6.17	3230	8.8	112	1	3180	7.07	171	289	1.2	2170	<0.2	<0.2	<0.2	0.02	<0.005	<0.3	<0.1	0.08	393	<0.01	0.81	<0.01	5.48	<0.05	0.05	257	36	<0.03	2	<0.3	11	<0.2	5.25	<0.01	10	1.48	<0.3	0.04	<0.01	<0.03	88.3	2
SRK-VD02	6/6/2003	6.56	3510	16	352	Trace	3270	7.03	182	258	<0.5	2690	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.12	436	<0.01	0.88	<0.01	0.21	<0.05	0.04	329	42.2	<0.03	1.98	<0.3	12	<0.2	5.85	<0.01	10	1.61	0.2	<0.03	<0.01	<0.03	83.4	2
SRK-VD02	5/29/2004	6.04	3410	9.2	294	3.3	3380	6.28	312	248	1.29	2200	<0.2	<0.2	<0.2	0.027	<0.005	<0.2	<0.1	0.093	471	<0.01	0.906	<0.01	26.6	<0.05	0.053	274	38.2	<0.03	2.37	<0.3	12.7	<0.2	6.03	<0.01	9.7	1.84	<0.2	0.032	<0.01	<0.03	100	2
SRK-VD02	5/17/2005	6.36	3700	6	367	0.72	3580	6.77	184	317	<10	2420	<0.20	<0.20	<0.20	0.029	<0.0050	<0.20	<0.10	0.112	534	<0.010	0.826	<0.010	4.35	<0.050	0.062	304	45.0	<0.030	2.41	<0.30	12.8	<0.20	6.01	<0.010	12.3	1.76	<0.20	<0.030	<0.010	<0.030	129	2
VD 02	5/28/2006	6.5	2410	3.9	108	trace	3490	7.09	156	351	<2.5	2240	<0.2	<0.2	<0.2	0.017	<0.005	<0.2	<0.1	0.065	460	<0.01	0.554	<0.01	7.43	<0.05	0.049	312	44.2	<0.03	1.61	<0.3	12.5	<0.2	5.79	<0.01	8.3	1.53	<0.2	<0.03	<0.01	<0.03	90.1	2
VD-02	5/27/2007	6.48	2480	13.2	191	1	3520	6.76	218	282	<2	1830	0.077	<0.001	0.019	0.015	<0.001	<0.001	<0.05	0.068	370	<0.001	0.430	0.004	6.99	0.002	0.069	221	35.3	0.0039	1.25	<0.15	09.9	0.002	5.50	0.0003	5.7	1.36	0.0011	<0.001	<0.001	<0.001	92.7	2
SRK-VD03	6/10/2002	6.03	5350	7.3	97	6	5220	6.84	719	187	1.3	4400	<0.4	<0.4	<0.4	0.02	<0.01	<0.6	<0.2	0.11	435	<0.02	2.99	<0.02	93.7	<0.1	0.1	551	139	<0.06	5.3	<0.6	13	<0.4	7.5	<0.02	13	1.87	<0.4	<0.06	<0.02	<0.06	412	2
SRK-VD03	9/12/2002	6.22	5400	4.4	65	1.5	5140	6.39	755	124	0.8	4070	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.06	431	<0.02	2.86	<0.02	127	<0.1	0.07	558	135	<0.06	5	<0.6	12	<0.4	7.8	<0.02	13	1.77	<0.4	<0.06	<0.02	<0.06	350	2
SRK-VD03	6/6/2003	6.14	5020	13.3	242	2.1	4580	6.72	661	192	<0.5	4200	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.08	414	<0.02	2.72	<0.02	69.2	<0.1	0.08	553	135	<0.06	4.6	<0.6	13	<0.4	7.4	<0.02	12	1.69	<0.4	<0.06	<0.02	<0.06	345	2
SRK-VD03	9/14/2003	6.24	5180	5	245	1	5180	6.28	581	164	1.2	4440	<0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.05	404	<0.02	2.53	<0.02	108	<0.1	0.06	602	130	<0.06	4.5	<0.6	11	<0.4	7.3	<0.02	12	1.59	0.4	<0.06	<0.02	<0.06	316	2
SRK-VD03	5/29/2004	5.88	5900	7.3	276	5	5620	6.37	1210	102	3.11	4860	<0.6	<0.6	<0.6	0.036	<0.015	<0.6	<0.3	0.168	465	<0.03	3.13	0.032	194	<0.15	0.094	518	157	<0.09	4.9	<0.9	13.7	<0.6	7.7	<0.03	8.5	1.83	<0.6	<0.09	<0.03	<0.09	612	3
SRK-VD03	9/26/2004	6.08	6390	4.8	252	2.7	6050	6.53	883	168	<50	5230	<0.4	<0.4	<0.8	<0.02	0.014	<0.4	<0.2	0.035	420	<0.02	2.88	<0.02	176	<0.1	0.083	674	144	<0.06	4.89	<0.6	11.6	<0.4	7.25	<0.02	12	1.82	<0.4	<0.06	<0.02	<0.2	406	2
SRK-VD03	5/17/2005	6.2	5480	5.1	297	6	5150	6.67	851	141	<10	4390	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.084	393	0.029	2.45	<0.020	130	<0.10	0.062	448	128	<0.060	4.05	<0.60	8.2	<0.40	6.35	<0.020	7.2	1.25	<0.40	<0.060	<0.020	<0.060	432	2
SRK-VD03	9/17/2005	6.13	6370	8.2	333	3	5960	6.66	870	220	<10	5310	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.071	472	<0.020	3.40	<0.020	183	<0.10	0.124	809	168	<0.060	5.84	<0.60	14.1	<0.40	8.61	<0.020	16.2	1.98	<1.2	<0.060	<0.020	<0.080	450	2
VD 03	5/28/2006	6.13	4630	5.9	62	0.8	4410	6.81	638	20.8	<10	3330	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.037	386	<0.01	1.80	<0.01	122	<0.05	0.042	398	112	<0.03	3.57	<0.3	10.3	<0.2	7.34	<0.01	9.1	1.25	<0.2	<0.03	<0.01	<0.03	332	2
VD-03	9/24/2006	6.38	5770	1.1		trace	5730	6.68	807	237	<25	4360	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.040	409	<0.020	2.55	<0.020	99.5	<0.10	0.067	643	138	<0.060	4.77	<0.60	9.3	<0.40	6.68	<0.020	12.3	1.52	<0.40	0.256	<0.020	0.114	322	2
VD-03	5/27/07	6.35	4710	11.1	227	trickle	6080	6.88	400	179	<4	3820	0.1	<0.001	0.003	0.014	<0.001	<0.001	<0.05	0.028	380	<0.001	1.85	0.003	7.27	<0.001	0.071	506	106	0.012	3.25	<0.15	12.2	0.006	7.3	0.0006	15.6	1.75	0.0013	<0.001	<0.001	<0.001	219	2
VD-03	9/12/07	6	5390	14.7	113	trace	5270	6.39	513	185	<50	4480	<0.1	<0.01	<0.01	0.0108	<0.05	<0.05	<1	0.0436	400	<0.05	2.82	<0.01	7.87	<0.005	<0.5	650	144	<0.005	4.98	<0.6	9.7	<0.1	5.98	<0.001	11.2	1.63	<0.01	<0.01	<0.02	<0.1	321	2
SRK-VD04	6/10/2002	3.3	22000	9.9	334	0.75	21400	3.57	12300	<1	<0.5	30500	20	<8	<8	<0.4	<0.2	<20	<4	6.8	467	<0.4	22.3	<0.4	1160	<2	<0.4	3180	2350	<2	17	<20	<80	<8	21	<0.4	<80	1	<8	<2	<0.4	<2	6370	3
SRK-VD04	9/12/2002	3.43	22300	5.8	344	slight	22300	3.52	12500	7	<0.5	33100	22	<6	<6	<0.3	<0.2	<6	<3	8.1	456	<0.3	22.3	<0.3	1030	<2	0.4	3490	2600	<0.9	17	<9	<60	<6	20	<0.3	<60	1.1	<6	<0.9	<0.3	<0.9	6990	3
SRK-VD04	6/6/2003	3.25	22100	7.9	538	0.2	18800	3.53	15400	<1	<0.5	33400	30	<8	<8	<0.4	<0.2	<8	<4	6.8	428	<0.4	19.2	<0.4	1270	<2	0.5	3090	2280	<2	15	<20	<80	<8	22	<0.4	<80	0.9	<8	<2	<0.4	<2	6070	3
SRK-VD04	9/14/2003	3.23	22700	2.9	534	1	21700	3.27	10600	<1	<0.5	30800	27	<10	<10	<0.5	<0.3	<10	<5	6	445	<0.5	17	<0.5	1240	<3	<0.5	3300	2340	<2	12	<20	<100	<10	23	<0.5	<100	1	<10	<2	<0.5	<2	5850	3
SRK-VD04	5/29/2004	3.07	24800	12.2	551	Trace	23500	3.2	13600	<1	<0.5	34600	89.3	<8	<8	<0.4	<0.2	<8	<4	9.6	485	<0.5	24.5	<0.4	1850	<2	<0.4	3230	2760	<1.2	18.7	<12	<80	<8	21.8	<0.4	<80	1.06	15.5	<1.2	<0.4	<2	8230	3
SRK-VD04	9/26/2004	3.06	34600	3.6	510	Trace	31600	3.4	22400	<1	<500	67700	218	<20	<20	<1	<0.5	<20	<10	23.2	497	<1	38.3	<1	2850	<5	<1	4710	4030	<3	26.1	<30	<200	<20	18	<1	<200	0.92	<20	3	<1	<3	13100	3
SRK-VD04	5/17/2005	3.43	22000	5.5	512	Trace	25000	3.22	20100	<2.0	<500	27900	134	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	10.1	321	0.41	19.0	<0.10	2130	0.58	0.26	2000	1910	<0.60	13.7	<3.0	<20	<2.0	11.8	<0.10	<20	0.657	<2.0	<0.30	<0.10	<0.30	6640	3
SRK-VD04	9/17/2005	3.22	35400	8.5	544	0.35	31800	3.50	24200	<2.0	<50	53300	326	<4.0	<4.0	<0.20	<0.10	<4.0	<2.0	16.1	462	<0.20	32.1	<0.20	3760	<1.0	0.84	5260	3830	<0.60	24.3	<6.0	<40	<4.0	19.4	<0.40	<40	0.98	<20	<0.60	<0.20	<1.6	12000	3
VD 04	5/28/2006	3.39	31500	5.6	331	trace	28000	3.38	20400	<2	<500	42900	146	<4	<4	<0.2	<0.1	<4	<2	10.1	422	<0.2	24.9	<0.2	3320	1.1	0.58	3760	3260	<0.6	17.9	<6	<40	<4	15.8	<0.2	<40	0.94	<4	<0.6	<0.2	<0.6	10700	3
VD-04	9/24/2006	3.2	37600	3.1		trace	33600	3.50	24000	<2.0	<1000	53800	142	<4.0	<4.0	<0.20	<0.10	<4.0	<2.0	8.90	450	<0.20	26.6	<0.20	3800	<1.0	0.64	4850	3060	<0.60	20.3	<6.0	<40	<0.30	17.2	<0.20	<40	1.28	<4.0	2.14	<0.20	<6.0	11000	3
VD-04	5/27/2007	3.45	35200	7	433	1	91900	3.34	25000	<0.5	<20	53200	168	0.002	0.024	0.006	0.026	<0.001	<0.05	6.39	438	0.013	26.0	0.061	3450	1.39	0.82	5110	3760	0.434	19.0	<0.15	3.5	0.11	24.8	0.026	15.3	1.11	0.024	<0.001	0.006	00000	10700	3
VD-04	9/10/2007	3.83	36600	9.6	327	0.2	34100	3.08	28700	<2	<2500	60800	294	<0.3	<0.3	<0.15	<1.5	<1.5	<30	8.33	389	<1.5	21.4	0.59	3630	0.55	<15	5520	3230	<0.15	16.1	<6	<40	<3	20.9	<0.03	<40	0.91	<0.3	<0.3	<0.2	<3	10100	3
SRK-VD05	6/10/2002	6.21	12000	13.5	15	0.17	11700	6.17	2550	160	1	13700	<2	<2	<2	<0.1	<0.05	<4	<1	0.7	442	<0.1	10.3	<0.2	243	<0.5	0.2	1880	1000	<0.3	7.2	<3	<20	<2	9.5	<0.1	<20	2.15	<2	<0.4	<0.1	<0.3	1650	2
SRK-VD05	9/12/2002	5.93	18290	4.6	62	0.2	1730	5.4	5490	119	0.7	23000	<4	<4	<4	<0.2	<0.1	<4	<2	1.1	440	<0.2	15.6	<0.2	807	<1	0.3	3170	1600	<0.6	12	<6	<40	<4	11	<0.2	<40	3	<4	<0.6	<0.2	<0.6	2850	3
SRK-VD05	9/26/2004	5.3	34600	4.2		3.5	31900	5.39	17000	127	<500	46900	<10	<10	<10	<0.5	<0.25	<10	<5	6.33	530	<0.5	28.4	1.46	3280	<2.5	<0.5	6140	3560	<1.5	20.7	<15	<100	<10	9	<0.5	<100	4.14	<10	<1.5	<0.5	<1.5	8740	3
SRK-VD05	5/17/2005	5.89	16760	2.1	310	17.1	15400	4.28	7570	81.0	<50	17500	<2.0	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	1.60	226	0.17	7.67	0.21	888	<0.50	0.16	2160	1090	<0.30	6.53	<3.0	<20	<2.0	3.67	<0.10	<20	1.51	<2.0	<0.30	<0.10	<0.30	2760	3
SRK-VD05	9/17/2005	5.37	38000	5.4	382	4.8	34300	5.29	28700	125	<50	58000	15.2	<4.0	<4.0	<0.20	<0.10	<4.0	<2.0	6.85	515	<0.20	25.8	1.34	4100	<1.0	0.79	7400	3990	<0.60	20.9	<6.0	<40	<4.0	10.5	<0.20	<40	3.51	10.3	<0.60	<0.20	2.58	10900	3
VD 05		6.25	18960	4.1	114	2	16600	5.92	6230	7.6	<500	18600	<4	<4	<4	<0.2	<0.1	<4	<2	1.07	336	<0.2	7.81	<0.2	1070	<1	0.27	2790	1200	<0.6	6.8	<6	<40	<4	5.0	<0.2	<40	2.30	<4	<0.6	<0.2	<0.6	2580	2
VD-05	9/24/2006	5.89	21800	3		0.8	31700	5.36	14400	39.2	<1000	46200	<4.0	<4.0	<4.0	<0.20	<0.10	<4.0	<2.0	2.29	453	<0.20	17.9	<0.20	2940	<1.0	0.58	6750	2410	<0.60	16.5	<6.0	<40	<4.0	9.9	<0.20	<40	4.62	<4.0	2.96	<0.20	<6.0	6110	3
VD-05	5/27/07	6.6	5600	0.6	185	1	6920	4.98	1340	5.3	2.08	4870	0.026	<0.001	0.002	0.15	<0.001	<0.001	<0.05	0.15	80.8	<0.001	1.59	0.013	230	0.01	0.067	702	236	0.028	1.55	<0.15	1.7	0.008	1.7	0.0012	1.85	0.64	0.0005	<0.001	<0.001	<0.001	468	2
VD-05	9/10/07	5.69	34300	8.7	74	0.5	31500	5.69	20500	63.2	<2500	50300	<2	<0.2	<0.2	<0.1	<1	<1	<20	1.73	425	<1	19.1	0.27	2860	<0.1	<10	7350	3020	<0.1	17.3	<6	<40	<2	9.7	<0.02	<40	5.54	<0.2	<0.2	<0.2	<2	6450	3
SRK-VD06	6/10/2002	7.08	1233	10	106	0.25	1200	7.39	53	30	0.7	766	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.08	207	<0.01	0.1	0.01	<0.03	<0.05	0.02	54.2	4.8	<0.03	0.18	<0.3	2	<0.2	0.87	<0.01	<2	0.517	<0.2	<0.03	<0.01	<0.03	27.9	2
SRK-VD06	6/6/2003	6.68	1711	12.7	427	2	1240	6.91	56	28	<0.5	822	<0.2	<0.2	<0.2	0.02	<0.005	<0.2	<0.1	0.09	199	<0.01	0.06	<0.01	<0.03	<0.05	0.02	59	3.65	<0.03	0.14	<0.3	<2	<0.2	0.79	<0.01	<2	0.498	<0.2	<0.03	<0.01	<0.03	22.8	2
SRK-VD06	5/29/2004	5.89	1424	9.6	312	2	904	6.14	65.8	15	0.54	511	<0.2	<0.2	<0.2	0.059	<0.005	<0.2	<0.1	0.049	91.7	<0.01	0.069	<0.01	0.697	<0.05	<0.01	26.5	3.28	<0.03	0.105	<0.3	<2	<0.2	0.748	<0.01	<2	0.251	<0.2	<0.03	<0.01	<0.03	19.8	2
SRK-VD06	5/17/2005	6.34	1113	4.9	303	3.9	1330	7.50	69.5	16.7	<0.50	770	<0.20	<0.20	<0.20	0.022	<0.0050	<0.20	<0.10	0.082	183	<0.010	0.099	0.026	2.41	<0.050	0.017	48.0	4.78	<0.030	0.178	<0.30	<2.0	<0.20	0.648	<0.010	<2.0	0.399	<0.20	<0.030	<0.010	<0.030	27.2	2
VD 06	5/28/2006	6.24	1098	3.6	126	trace	1240	6.83	99.5	7.9	<0.5	702	<0.2	<0.2	<0.2	0.019	<0.005	<0.2	<0.1	0.083	157	<0.01	0.111	0.072	7.34	<0.05	0.016	55.5	6.49	<0.03	0.227	<0.3	<2	<0.2	0.972	<0.01	<2	0.363	<0.2	<0.03	<0.01	<0.03	35.4	2
VD-06	5/27/2007	6.87	721	13.1	27	trickle	0963	6.75	35.0	21.8	<0.4	543	0.004	0.0004	0.0004	0.048	<0.0002	<0.0002	<0.01	0.040	102	<0.0002	0.029	0.071	0.06	0.0008	0.011	27.6	2.41	0.0004	0.065	<0.03	0.92	0.0012	0.420	<0.00005	0.3	0.263	0.0015	<0.0002	<0.0002	<0.0002	13	2
SRK-VD07	6/10/2002	2.75	3500	15.5	498	No Flow	3420	2.79	1400	<1	0.7	2470	27.9	<0.4	<0.5	<0.02	<0.01	<0.4	<0.2	1.19	196	0.03	0.75	11.2	240	0.6	0.08	105	17.6	<0.06	1.1	<0.6	<4	<0.4	12.4	<0.02	<4	0.45	<0.4	<0.06	<0.02	<0.06	471	3
SRK-VD07	9/12/2002	2.55	20400	7.1	431	ponded	14600	2.55	16500	<1	11	19200	339	<4	19	<0.2	<0.1	<4	<2	8.5	457	0.3	6	180	3040	<1	0.5	721	232	<0.6	7	<6	<40	<4	74	<0.2	<40	0.7	<4	<0.6	<0.2	<0.6	4850	3
SRK-VD08	6/10/2002	4.1	5700	16.5	377	No Flow	5620	3.85	1840	3	0.5	5130	7	<2	<2	<0.1	<0.05	<2	<1	4.1	528	<0.1	2.1	9.2	14.8	2.5	0.1	346	122	<0.3	3.3	<3	<20	<2	11.2	<0.1	<20	0.9	<2	<0.3	<0.1	<0.3	1430	3
SRK-VD09	6/11/2002	5.64	4600	6.3	145	Trace Flow	4610	6.36	764	11	0.8	3550	<0.4	<0.4	<0.4	<0.02	<0.01	<0.6	<0.2	0.83	444	<0.04	1.72	0.37	35.3	0.1	0.12	371	79.7	<0.06	2.8	<2	11	<0.4	4.3	<0.02	<4	1.78	<0.4	<0.06	<0.02	<0.06	499	3
SRK-VD09B	9/12/2002	4.45	5400	5.4	341	slight	5190	4.18	836	14	<0.5	4370	0.4	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.56	467	<0.02	2.45	0.07	25.5	0.7	0.19	514	126	<0.06	3.7	<0.6	10	<0.4	5.9	<0.02	5	1.9	<0.4	<0.06	<0.02	<0.06	474	3
SRK-VD09C	6/6/2003	3.67	4790	17.9	537	2	4620	3.74	860	<1	<0.5	4340	2.5	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.73	446	<0.02	2.2	0.69	68.5	1.8	0.18	464	103	<0.06	3.5	<0.6	9	<0.4	8.7	<0.02	<4	1.59	<0.4	<0.06	<0.02	<0.06	474	3
SRK-VD09C	9/14/2003	4.54	4740	0.7	522	Trace	4550	5.03	581	12	0.8	3810	1.5	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.45	402	<0.02	1.84	0.67	0.12	1	0.19	487	99.6	<0.06	2.8	<0.6	7	<0.4	5.4	<0.02	4	1.85	<0.4	<0.06	<0.02	<0.06	352	3
SRK-VD09	5/30/2004	3.5	4560	13.9	610	4	4490	3.71	875	<1	<0.5	3690	14.9	<0.6	<0.6	<0.03	<0.015	<0.6	<0.3	0.727	406	<0.04	2.67	1.33	20.7	1.84	0.188	365	96	<0.09	3.4	<0.9	6.7	<0.6	9.84	<0.03	<6	1.27	<0.6	<0.09	<0.03	<0.09	508	3
SRK-VD09	9/27/2004	3.99	5320	10	491	Trace	5110	4.85	709	4.6	<10	4240	4.04	<0.4	<0.6	<0.02	<0.01	<0.4	<0.2	0.486	443	<0.02	2.18	0.256	22.7	1.32	0.189	528	124	<0.06	3.14	<0.6	9.5	<0.4	7.5	<0.02	4.6	1.79	<0.4	<0.06	<0.02	<0.2	429	3
SRK-VD09	5/19/2005	3.84	4460	13.7			4500	3.26	1040	<2.0	<10	3850	29.6	<0.20	<0.20	<0.010	0.0064	<0.20	<0.10	0.701	384	<0.010	2.12	3.30	115	1.57	0.168	361	89.3	<0.030	2.53	<0.30	5.2	<0.20	11.1	<0.020	3.0	1.17	<0.20	<0.030	<0.010	<0.030	474	3
SRK-VD09	9/17/2005	3.6	5140	10.1	523	Trace	4800	4.22	755	3.3	<10	4290	6.53	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.693	488	<0.020	2.16	0.697	0.979	1.13	0.294	604	124	<0.060	3.43	<0.60	12.1	<0.40	9.47	<0.020	5.2	2.23	<0.80	<0.060	<0.020	<0.060	435	3
VD 09	5/28/2006	4.42	5450	1.1	218	trace	5320	4.14	1200	<2	<10	4430	31.8	<0.4	<0.4	<0.02	<0.01	<0.4	<0.2	0.844	396	<0.02	3.19	2.54	108	1.59	0.193	566	119	<0.06	3.75	<0.6	11.8	<0.4	8.56	<0.02	7.0	1.45	<0.4	<0.06	<0.02	<0.06	583	3
VD-09	5/27/07	3.66	6870	18.9	477	trace	9760	3.33	2500	<0.5	<2	6670	92.7	<0.001	0.009	0.005	0.021	<0.001	<0.05	1.34	402	<0.001	5.2	5.7	230	2.06	0.32	603	169	0.018	5.06	<0.15	4.7	0.026	23.6	0.0025	3.66	1.24	0.0044	<0.001	<0.001	<0.001	903	3
SRK-VD10	5/29/2004	5.85	2470	2.2	305	4.2	5490	5.71	1370	88.2	2.11	4700	<1	<1	<1	<0.05	<0.025	<1	<0.5	0.28	476	<0.05	2.89	<0.05	106	<0.25	<0.05	499	138	<0.15	3.89	<1.5	16	<1	8.38	<0.05	13	1.52	<1	<0.15	<0.05	<0.15	707	3
SRK-VD10	9/26/2004	5.65	13920	2.8	275	3.3	13500	4.95	5390	28	<250	15300	<2	<2	<2	<0.1	<0.05	<2	<1	<0.1	530	<0.1	7.19	<0.3	1100	<0.5	0.24	1820	1130	<0.3	4.85	<3	28	<2	12.6	<0.1	<20	2.12	<2	<0.3	<0.1	<1	1750	3
SRK-VD10	5/17/2005	5.48	6740	2.8	305	7.2	6430	3.98	2460	<2.0	<25	5420	0.60	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.218	431	0.053	3.12	<0.020	191	<0.10	0.063	565	201	<0.060	4.02	<0.60	10.0	<0.40	9.13	<0.020	10.2	1.29	<0.40	<0.060	<0.020	0.068	811	3
SRK-VD10	9/17/2005	5.66	16060	5.9	409	3.5	14800	5.49	5900	84.0	<10	15000	<2.0	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	<0.10	469	<0.10	8.70	<0.10	1380	<0.50	0.23	2260	1310	<0.30	5.73	<3.0	<20	<2.0	13.4	<0.10	<20	1.97	3.0	<0.30	<0.10	0.80	2540	3
VD 10	5/28/2006	5.75	7090	4.3	110	3	07910	6.47	4250	14.2	<50	07310	<1	<1	<1	<0.05	<0.025	<1	<0.5	0.182	449	<0.05	4.17	<0.05	0342	<0.25	0.10	0879	0338	<0.15	4.97	<1.5	14	<1	10.8	<0.05	15	1.67	<1	<0.15	<0.05	<0.15	1300	3
VD-10	5/27/2007	5.44	6500	5.9	265	1.5	08740	4.12	2150	<0.5	<4	06340	2.25	<0.001	0.005	0.01	<0.001	<0.001	<0.05	0.27	372	<0.001	3.24	0.032	0180	0.004	0.08	0619	0186	0.021	4.17	<0.15	12.3	0.014	10.4	0.0029	13.3	1.49	0.0	<0.001	<0.001	<0.001	958	3
SRK-VD12	5/17/2005	3.64	3190	5.6	647	1.8	3240	3.03	734	<2.0	<5.0	2230	17.2	<0.20	0.43	0.022	0.0064	<0.20	<0.10	0.210	287	0.013	1.30	2.60	104	0.263	0.077	243	33.6	<0.030	1.66	0.32	4.0	<0.20	5.53	<0.010	2.6	0.928	<0.20	<0.030	<0.010	<0.030	211	3

Appendix B

Pit Seepage Monitoring Results

Sample ID	Date Sampled	Field Parameters: pH	Field Parameters: Cond uS/cm	Field Parameters: Temp °C	Field Parameters: ORP mV	Field Parameters: Flow L/min	Physical Tests: Cond uS/cm	Physical Tests: pH	Dissolved Anions: Acidity (to pH 8.3) mg CaCO3/L	Dissolved Anions: Alkalinity-Total mg CaCO3/L	Dissolved Anions: Cl mg/L	Dissolved Anions: SO4 mg/L	Dissolved Metals: Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L
						Method Detection Limit:	2	0.01	1	1	0.5	0.5	0.2	0.2	0.2	0.01	0.005	0.2	0.1	0.01
04-FP01	3-Jun-04	6.54	3630	11.5	414	4	3540	7.29	80.6	280	44.2	2310	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.022
04-FP02	3-Jun-04	7.46	1170	11.1	379	4	1150	8.01	2.4	139	0.64	428	<0.2	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	<0.01
04-FP03	3-Jun-04	3.02	5180	12.4	657	25	5120	2.94	1960	<1	0.94	4100	2.5	<1.0	<1.0	<0.050	<0.025	<1.0	<0.7	0.904
04-FP04	3-Jun-04	7.32	616	12.5	349	600	600	8.05	4.2	239	<0.50	99.4	<0.2	<0.2	<0.2	0.036	<0.005	<0.2	<0.1	<0.01
04-FP05	3-Jun-04	8.12	1038	14.8	331	7.5	983	8.11	3.9	293	<0.50	287	<0.2	<0.2	<0.2	0.031	<0.005	<0.2	<0.1	<0.01
04-FP06	3-Jun-04	7.23	275	11.2	436	not recorded	277	7.84	1	119	<0.50	21.7	<0.2	<0.2	<0.2	0.016	<0.005	<0.2	<0.1	<0.01
04-FP07	3-Jun-04	7.03	379	4.2	424	400	393	7.99	4.1	193	<0.50	25.5	<0.2	<0.2	<0.2	0.062	<0.005	<0.2	<0.1	<0.01
05-SF-A25	16-May-05	7.74	2490	2.7	438		434	8.24	<1	205	<0.5	38	<0.2	<0.2	<0.2	0.078	<0.005	<0.2	<0.1	<0.01
05-SF-FP04	17-May-05	8.18	586	6	295		554	8.07	4.9	252	<0.5	70.9	<0.2	<0.2	<0.2	0.039	<0.005	<0.2	<0.1	<0.01
05-S-FP02	18-May-05	6.74	1903	7.8	293		1840	6.99	227	55.3	<0.5	1120	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.13
05-S-FP03	18-May-05	2.9	204	2.7	645		3170	2.96	1240	<2	<10	1940	<0.2	<0.2	<0.2	<0.01	0.0097	<0.2	<0.1	0.428
05-SF-A25	13-Sep-05	7.32	435	7.1	560	30	415	7.97	4.1	234	<0.50	18.7	<0.2	<0.2	<0.2	0.11	<0.005	<0.2	<0.1	<0.01
05-F-FP01	15-Sep-05	6.93	3650	7.1	410	0.5	3490	7.53	91.6	279	51.2	2230	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	0.022
05-F-FP02	15-Sep-05	7.46	764	10.6	345	5	727	7.43	4.7	80.8	<0.50	327	<0.2	<0.2	<0.2	0.011	<0.005	<0.2	<0.1	<0.01
05-F-FP03	15-Sep-05	8.43	407	14.1	619	20	425	8.3	<1.0	220	<0.50	34.7	<0.2	<0.2	<0.2	0.039	<0.005	<0.2	<0.1	<0.01
05-SF-FP04	16-Sep-05	7.84	569	3.5	624	15	520	8.16	2.5	272	<0.50	38.2	<0.2	<0.2	<0.2	0.068	<0.005	<0.2	<0.1	<0.01
05-F-FP05	16-Sep-05	7.6	598	6.8	164	15	567	8.14	2.7	275	<0.50	77.3	<0.2	<0.2	<0.2	0.091	<0.005	<0.2	<0.1	<0.01
05-F-FP06	16-Sep-05	6.25	3200	5	309	>1.8	2930	6.18	836	64	<5.0	2180	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.325
05-F-FP07	16-Sep-05	3.02	1687	8.7	759	>1.8	1550	3.17	308	<2.0	<5.0	843	0.9	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.137
A25	23-May-06	7.05	494	1.8	131	30	502	7.67	7.8	259	<0.5	42	<0.2	<0.2	<0.2	0.087	<0.005	<0.2	<0.1	<0.01
FP04	24-May-06	8.15	646	13.5	198	4	562	7.93	4.8	262	<0.5	69.7	<0.2	<0.2	<0.2	0.052	<0.005	<0.2	<0.1	<0.01
FP05	24-May-06	7.85	571	6.2	146	15	550	8.04	4.2	266	<0.5	64.6	<0.2	<0.2	<0.2	0.063	<0.005	<0.2	<0.1	<0.01
FP11	24-May-06	6.27	2490	7.4	113	trace	3500	6.1	955	7.8	<2.5	2750	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.209
FP08	27-May-06	3.19	1014	7.6	533	trace	1320	3.11	310	<2	<0.5	629	10.9	<0.2	0.22	0.013	0.0054	<0.2	<0.1	0.043
FP01	21-Sep-06	7.3	3830	8	164	1	3690	7.7	74.6	285	63	2350	<0.20	<0.20	<0.20	0.014	<0.0050	<0.20	<0.10	0.018
FP13	21-Sep-06	6.62	4350	14.1	460	3	3750	3.42	960	<2.0	<25	2860	<0.20	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.287
FP14	21-Sep-06	5.84	746	12.7		3	718	7.85	5.9	214	<0.50	199	<0.20	<0.20	<0.20	0.035	<0.0050	<0.20	<0.10	0.015
FP15	21-Sep-06	7.45	764	15	103	4	734	8.05	3.7	88.8	<0.50	314	<0.20	<0.20	<0.20	0.011	<0.0050	<0.20	<0.10	<0.010
FP06	21-Sep-06	8.35	378	6.2	74	17	372	8.31	<1.0	176	<0.50	29.4	<0.20	<0.20	<0.20	0.028	<0.0050	<0.20	<0.10	<0.010
FP16	21-Sep-06	7.31	989	8.6	105	240	967	7.23	65	24.8	<0.50	513	<0.20	<0.20	<0.20	0.016	<0.0050	<0.20	<0.10	0.053
FP09	21-Sep-06	7.79	259	8.2	115	330	256	7.75	8.5	49.6	<0.50	75	<0.20	<0.20	<0.20	0.025	<0.0050	<0.20	<0.10	<0.010
FP10	21-Sep-06	7.85	1112	4.1	84	25	1100	8.17	2.4	214	1.42	437	<0.20	<0.20	<0.20	0.021	<0.0050	<0.20	<0.10	<0.010
FP11	21-Sep-06	6.45	2480	6.5	337	1.5	2990	6.48	813	139	<25	2120	<0.20	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.234
FP12	21-Sep-06	7.97	559	7.2	160	30	514	8.16	1.8	258	<0.50	40	<0.20	<0.20	<0.20	0.062	<0.0050	<0.20	<0.10	<0.010
FP-05	28-May-07	7.67	598	5.3	286	20	573	8.06	5	271	<0.4	68	<0.001	<0.0002	0.0002	0.058	<0.0002	<0.0002	<0.01	0.00009
FP-07	28-May-07	3.3	2590	6.8	598	trickle	3320	2.93	990	<0.5	<1	2080	2.8	<0.001	0.006	0.001	0.01	<0.001	<0.05	0.365
FP-10	28-May-07	7.2	1458	0.4	32	1	1340	7.66	5	143	1.48	737	0.004	<0.0002	0.0003	0.017	<0.0002	<0.0002	<0.01	0.0033
FP-11	28-May-07	7.79	551	11.1	274	12	502	7.96	4	241	<0.4	57.7	0.001	<0.0002	0.0002	0.049	<0.0002	<0.0002	<0.01	0.00006
A25	28-May-07	6.74	499	2.3	299	50	484	7.81	11	247	0.4	38.3	<0.001	<0.0002	0.0002	0.082	<0.0002	<0.0002	<0.01	0.00023
FP-01	11-Sep-07	7.49	3310	11.1	328	5	3380	6.73	118	233	41	2200	<0.01	<0.001	<0.001	0.0148	<0.005	<0.005	<0.1	0.021
FP06	11-Sep-07	7.67	257	6.2	250	20	360	8.15	3.4	152	<0.5	35.5	0.901	0.00021	0.0004	0.025	<0.0005	<0.0005	<0.01	0.000058
FP-09	11-Sep-07	8.01	348	10.4	311	350	323	7.05	20.8	42.6	<0.5	111	0.0175	<0.0002	<0.0002	0.0323	<0.001	<0.001	<0.02	0.0107
FP-10	11-Sep-07	8.32	1189	4.7	182	50	1170	8.01	7.1	175	1.38	486	0.0117	<0.0002	<0.0002	0.0166	<0.001	<0.001	<0.02	0.00371
FP12	11-Sep-07	6.9	600	13.7	250	50	577	8.26	<1	260	<0.5	67.5	0.024	<0.0001	<0.0001	0.0775	<0.0005	<0.0005	<0.01	0.00119
FP13	11-Sep-07	6.49	4800	13.4	466	50	4510	2.83	2100	<2	<250	3850	3.95	<0.02	0.05	<0.01	<0.1	<0.1	<2	0.716
FP14	11-Sep-07	6.79	663	15.3	150	60	620	7.64	12.7	240	<0.5	99.8	0.0013	<0.0001	<0.0001	0.0588	<0.0005	<0.0005	<0.01	0.00555
FP15	11-Sep-07	7.53	477	9.8	240	2	454	6.94	16.1	77.07	<0.5	159	0.0267	<0.0001	<0.0001	0.0258	<0.0005	<0.0005	<0.01	0.00347
FP16	11-Sep-07	7.14	876	8.3	385	500	869	5.35	109	2.7	<0.5	468	3.13	<0.001	<0.001	0.0206	<0.005	<0.005	<0.01	0.0601
FP17	11-Sep-07	6.25	6600	10.4	474	trickle	6730	2.71	5610	<2	<250	7240	85.5	<0.05	0.937	<0.025	<0.25	<0.25	<5	2.19
A25	13-Sep-07	6.7	436	6.6	128	75	416	7.96	6.4	234	<0.5	21.7	<0.001	<0.0001	<0.0001	0.0802	<0.0005	<0.0005	<0.01	<0.00005
FP-04	13-Sep-07	7.87	560	12.1	158	5	523	8.13	3.8	260	<0.5	48.1	0.001	<0.0001	<0.0001	0.0558	<0.0005	<0.0005	<0.01	<0.00005
FP-05	13-Sep-07	7.47	567	9.1	95	50	541	8.12	4.2	259	<0.5	56.5	<0.001	<0.0001	<0.0001	0.0806	<0.0005	<0.0005	<0.01	0.000129
FP-11	13-Sep-07	5.94	2470	11.4	20	1	3260	6.06	1170	34.8	<50	2600	0.17	<0.01	0.034	0.0104	<0.05	<0.05	<1	0.338
FP-16	13-Sep-07	7.75	607	8.2	198	30	545	8.12	4	276	<0.5	57.5	<0.001	<0.0001	<0.0001	0.0563	<0.0005	<0.0005	<0.01	<0.00005

Sample ID	Date Sampled	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	Tl mg/L	Sn mg/L	Ti mg/L	V mg/L	Zn mg/L
	Method Detection Limit:	0.05	0.01	0.01	0.01	0.03	0.05	0.01	0.1	0.005	0.03	0.05	0.3	2	0.2	0.05	0.01	2	0.005	0.2	0.03	0.01	0.03	0.005
04-FP01	3-Jun-04	631	<0.01	0.047	0.014	<0.03	<0.05	0.097	171	6.01	<0.03	0.194	<0.3	8.2	<0.2	7	<0.01	58.3	2.24	<0.2	<0.03	0.012	<0.03	45.2
04-FP02	3-Jun-04	44.4	<0.01	<0.01	<0.01	<0.03	<0.05	0.032	10.1	<0.005	<0.03	<0.05	<0.3	<2	<0.2	2.61	<0.01	150	1.2	<0.2	<0.03	<0.01	<0.03	0.0509
04-FP03	3-Jun-04	302	<0.050	1.55	2.55	192	0.95	0.131	413	82	<0.15	1.41	<1.5	<10	<1.0	3.86	<0.05	<10	0.796	<1.0	<0.15	<0.05	<0.15	875
04-FP04	3-Jun-04	58.6	<0.01	<0.01	<0.01	<0.03	<0.05	0.043	28.4	0.0928	<0.03	<0.05	<0.3	3.1	<0.2	0.989	<0.01	14.9	1.66	<0.2	<0.03	<0.01	<0.03	0.832
04-FP05	3-Jun-04	94.2	<0.01	<0.01	<0.01	<0.03	<0.05	0.055	59.2	<0.005	<0.03	<0.05	<0.3	6.1	<0.2	0.808	<0.01	35.6	3.24	<0.2	<0.03	<0.01	<0.03	<0.005
04-FP06	3-Jun-04	32.8	<0.01	<0.01	<0.01	<0.03	<0.05	0.021	10.4	<0.005	<0.03	<0.05	<0.3	2.2	<0.2	4.66	<0.01	3	0.234	<0.2	<0.03	<0.01	<0.03	<0.005
04-FP07	3-Jun-04	50.4	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	13.2	<0.005	<0.03	<0.05	<0.3	<2	<0.2	1.75	<0.01	2.6	0.536	<0.2	<0.03	<0.01	<0.03	<0.005
05-SF-A25	16-May-05	67	<0.01	<0.01	<0.01	<0.03	<0.05	0.013	20	<0.005	<0.03	<0.05	<0.3	<2	<0.2	1.46	<0.01	2.8	0.637	<0.2	<0.03	<0.01	<0.03	0.0055
05-SF-FP04	17-May-05	82.7	<0.01	<0.01	<0.01	<0.03	<0.05	0.022	28	<0.005	<0.03	<0.05	<0.3	3.6	<0.2	0.804	<0.01	5.7	1.47	<0.2	<0.03	<0.01	<0.03	<0.005
05-S-FP02	18-May-05	171	<0.01	0.108	0.043	16.4	<0.05	0.103	104	8.57	<0.03	0.069	<0.3	3.2	<0.2	1.05	<0.01	8.5	2.71	<0.2	<0.03	<0.01	<0.03	151
05-S-FP03	18-May-05	135	0.03	0.504	2.55	110	1.27	0.038	157	25.4	<0.03	0.487	<0.3	<2	<0.2	2.97	<0.01	<2	0.21	<0.2	<0.03	<0.01	<0.03	420
05-SF-A25	13-Sep-05	88.8	<0.01	<0.01	<0.01	<0.03	<0.05	0.013	20	<0.005	<0.03	<0.05	<0.3	2.1	<0.2	2.97	<0.01	3.6	0.749	<0.2	<0.03	<0.01	<0.03	<0.005
05-F-FP01	15-Sep-05	445	<0.01	0.022	<0.01	<0.03	<0.05	0.083	184	4.9	<0.03	0.256	<0.3	6.4	<0.2	5.78	<0.01	46.9	1.82	<0.2	<0.03	<0.01	<0.06	52.4
05-F-FP02	15-Sep-05	91.2	<0.01	<0.01	<0.01	0.128	<0.05	0.016	38.3	0.0362	<0.03	<0.05	<0.3	<2	<0.2	2.42	<0.01	5.1	0.284	<0.2	<0.03	<0.01	<0.03	0.791
05-F-FP03	15-Sep-05	80.7	<0.01	<0.01	<0.01	<0.03	<0.05	0.048	27.2	<0.005	<0.03	<0.05	<0.3	3.3	<0.2	6.33	<0.01	6	0.819	<0.2	<0.03	<0.01	<0.03	0.029
05-SF-FP04	16-Sep-05	74.5	<0.01	<0.01	<0.01	<0.03	<0.05	0.025	34.8	<0.005	<0.03	<0.05	<0.3	3.6	<0.2	1.46	<0.01	11.1	1.67	<0.2	<0.03	<0.01	<0.03	<0.005
05-F-FP05	16-Sep-05	84.8	<0.01	<0.01	<0.01	0.146	<0.05	0.041	31.7	0.0973	<0.03	<0.05	<0.3	2.5	<0.2	1.94	<0.01	10.7	1.88	<0.2	<0.03	<0.01	<0.03	1.16
05-F-FP06	16-Sep-05	293	0.027	0.535	<0.01	276	0.309	0.153	174	23.8	<0.03	0.414	<0.3	5.2	<0.2	6.23	<0.01	16.8	3.05	<0.2	<0.03	<0.01	<0.11	386
05-F-FP07	16-Sep-05	111	0.013	0.183	0.849	29.1	2.46	0.032	98.7	11.4	<0.03	0.194	<0.3	<2	<0.2	2.06	<0.01	3.6	0.358	<0.2	<0.03	<0.01	<0.06	110
A25	23-May-06	84.1	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	20.9	<0.005	<0.03	<0.05	<0.3	2.3	<0.2	1.88	<0.01	5	0.84	<0.2	<0.03	<0.01	<0.03	<0.005
FP04	24-May-06	71.6	<0.01	<0.01	<0.01	<0.03	<0.05	0.028	37.4	<0.005	<0.03	<0.05	<0.3	5	<0.2	1.26	<0.01	14.9	2.1	<0.2	<0.03	<0.01	<0.03	<0.005
FP05	24-May-06	65.7	<0.01	<0.01	<0.01	0.042	<0.05	0.037	25.2	0.042	<0.03	<0.05	<0.3	2.9	<0.2	1.52	<0.01	10.6	1.64	<0.2	<0.03	<0.01	<0.03	0.746
FP11	24-May-06	285	<0.01	0.482	<0.01	238	0.313	0.13	180	22.8	<0.03	0.419	<0.3	5.8	<0.2	6	<0.01	16.7	2.22	<0.2	<0.03	<0.01	<0.03	365
FP08	27-May-06	63.4	<0.01	0.226	4.09	69	0.186	0.038	51.8	1.8	<0.03	0.158	<0.3	3.9	<0.2	3.18	<0.01	<2	0.189	<0.2	<0.03	<0.01	<0.03	11
FP01	21-Sep-06	479	<0.010	<0.010	<0.010	<0.030	<0.050	0.126	237	2.38	<0.030	0.233	<0.30	8.2	<0.20	5.9	<0.010	63.7	2.32	<0.20	<0.10	<0.010	<0.030	47.3
FP13	21-Sep-06	253	<0.010	0.755	0.172	184	0.85	0.096	259	42.6	<0.030	0.771	<0.30	2.5	<0.20	2.17	<0.010	5.5	0.935	<0.20	0.112	<0.010	<0.070	353
FP14	21-Sep-06	80.8	<0.010	0.011	<0.010	<0.030	<0.050	0.036	43	0.848	<0.030	<0.050	<0.30	2.7	<0.20	1.08	<0.010	6.4	1.47	<0.20	<0.030	<0.010	<0.030	10.7
FP15	21-Sep-06	92.7	<0.010	<0.010	<0.010	0.088	<0.050	0.018	36.8	0.0169	<0.030	<0.050	<0.30	<2.0	<0.20	2.44	<0.010	5.3	0.279	<0.20	<0.030	<0.010	<0.030	0.738
FP06	21-Sep-06	49.8	<0.010	<0.010	<0.010	<0.030	<0.050	0.025	18.4	<0.0050	<0.030	<0.050	<0.30	2.2	<0.20	5.23	<0.010	3.5	0.5	<0.20	<0.030	<0.010	<0.030	<0.0050
FP16	21-Sep-06	93.9	<0.010	0.028	0.112	<0.030	<0.050	0.024	52.4	1.7	<0.030	0.141	<0.30	<2.0	<0.20	9.78	<0.010	3.6	0.271	<0.20	<0.030	<0.010	<0.030	40.5
FP09	21-Sep-06	26.5	<0.010	<0.010	0.018	<0.030	<0.050	0.011	11.8	0.112	<0.030	<0.050	<0.30	<2.0	<0.20	6.43	<0.010	2.5	0.124	<0.20	<0.030	<0.010	<0.030	5.61
FP10	21-Sep-06	121	<0.010	<0.010	<0.010	<0.030	<0.050	0.027	87.5	0.0581	<0.030	<0.050	<0.30	3.3	<0.20	4.58	<0.010	6.1	0.442	<0.20	<0.030	<0.010	<0.030	1.55
FP11	21-Sep-06	219	<0.010	0.397	<0.010	231	0.258	0.109	138	17.4	<0.030	0.297	<0.30	4	<0.20	4.93	<0.010	12.9	1.91	<0.20	0.053	<0.010	<0.060	284
FP12	21-Sep-06	73.7	<0.010	<0.010	<0.010	<0.030	<0.050	0.026	27.9	<0.0050	<0.030	<0.050	<0.30	2.2	<0.20	1.34	<0.010	4.4	1.28	<0.20	<0.030	<0.010	<0.030	<0.0050
FP-05	28-May-07	70.6	<0.0002	0.0003	0.0005	0.05	<0.0002	0.049	29.5	0.019	0.0007	0.001	<0.03	2.89	0.0005	2.05	<0.00005	16.8	1.89	<0.00002	<0.0002	<0.0002	0.0031	0.67
FP-07	28-May-07	139	0.001	0.34	1.43	130	1.22	0.052	157	21.8	0.0019	0.37	<0.15	1.2	0.004	3.8	0.0008	3.6	0.19	0.0096	<0.001	<0.001	0.031	358
FP-10	28-May-07	149	<0.0002	0.0049	0.0021	<0.01	0.0007	0.053	129	0.34	0.0002	0.023	<0.03	5.16	0.0012	2.44	<0.00005	7.05	0.661	0.00021	<0.0002	<0.0002	0.0045	1.98
FP-11	28-May-07	67.7	<0.0002	<0.0002	0.0006	<0.01	<0.0002	0.03	30	0.0046	0.0007	<0.0002	<0.03	2.62	0.0005	1.42	<0.00005	7.59	1.43	<0.00002	<0.0002	<0.0002	0.0032	0.037
A25	28-May-07	76.9	<0.0002	<0.0002	0.0004	<0.01	<0.0002	0.013	19.8	<0.003	0.0007	<0.0002	<0.03	2.02	0.0006	1.9	<0.00005	4.93	0.711	<0.00002	<0.0002	<0.0002	0.002	<0.005
FP-01	11-Sep-07	461	<0.005	0.021	0.004	<0.03	0.00125	0.128	244	6.64	<0.0005	0.269	<0.3	8.5	<0.01	6.3	<0.0001	54.5	2.78	<0.001	<0.001	<0.01	0.00743	63.8
FP06	11-Sep-07	51.8	0.00172	0.00065	0.00231	0.706	0.00357	0.021	17	0.023	0.00176	0.00217	<0.3	2.5	<0.001	6.22	0.000012	3.8	0.404	<0.0001	<0.0001	0.024	0.0195	0.0118
FP-09	11-Sep-07	33.2	<0.001	0.00374	0.0153	<0.03	0.00117	0.013	16.1	0.207	0.00059	0.0254	<0.3	<2	<0.002	7.34	<0.00002	3.2	0.144	<0.0002	<0.0002	<0.01	0.00175	8.74
FP-10	11-Sep-07	131	<0.001	0.00387	0.00264	<0.03	0.00014	0.031	95	0.217	0.00012	0.0272	<0.3	4.2	<0.002	4.21	<0.00002	6.5	0.504	<0.0002	<0.0002	<0.01	0.00491	2.37
FP12	11-Sep-07	69.3	<0.0005	0.00246	0.00306	<0.03	0.00113	0.04	34.4	0.0666	0.000484	0.00076	<0.3	3.8	<0.001	1.33	<0.00001	14.6	1.96	0.00036	<0.0001	<0.01	0.00241	0.942
FP13	11-Sep-07	217	<0.1	1.11	5.02	386	1.62	<1	295	61.7	<0.01	2.8	<0.6	<4	<0.2	4.9	<0.002	5	0.672	<0.02	<0.02	<0.02	0.0384	705
FP14	11-Sep-07	75.8	<0.0005	0.00418	0.0009	0.054	0.00151	0.033	38.9	0.304	0.000525	0.00557	<0.3	3.1	<0.001	1.48	<0.00001	6.8	1.79	0.00089	<0.0001	<0.01	0.00315	4.96
FP15	11-Sep-07	66.4	<0.0005	0.00219	0.00392	0.031	0.00173	0.016	18.5	0.0653	0.000281	0.0161	<0.3	<2	<0.001	7.99	<0.00001	5	0.235	0.00011	<0.0001	<0.01	0.00213	3.64
FP16	11-Sep-07	67.7	<0.005	0.09	0.438	0.176	0.162	<0.05	61.1	2.95	<0.0005	0.142	<0.3	<2	<0.01	9.97	<0.0001	4.2	0.245	<0.001	<0.001	<0.01	0.00311	49.6
FP17	11-Sep-07	272	<0.25	2.58	23.5	771	0.93	<2.5	345	97.4	<0.025	2.75	0.72	<4	<0.5	27.8	<0.005	6.7	0.768	<0.05	<0.05	<0.02	0.137	1860
A25	13-Sep-07	68	<0.0005	<0.0001	0.00036	<0.03	0.000095	0.01	16.3	<0.00015	0.000649	<0.0005	<0.3	2.2	<0.001	2.66	<0.00001	3.2	0.578	<0.0001	<0.0001	<0.01	0.00155	0.0017
FP-04	13-Sep-07	71	<0.0005	<0.0001	0.00017	<0.03	0.000104	0.021	33.7	<0.0002	0.00139	<0.0005	<0.3	4.5	<0.001	1.41	<0.00001	7.7	1.58	<0.0001	<0.0001	<0.01	0.00443	0.0013
FP-05	13-Sep-07	72.5	<0.0005	0.00034	0.00019	0.066	0.000145	0.036	30	0.0236	0.000612	0.00085	<0.3	3.3	<0.001	1.57	<0.00001	8.9	1.85	<0.0001	<0.0001	<0.01	0.00266	0.558
FP-11	13-Sep-07	263	<0.05	0.495	<0.01	321	0.287	<0.5	168	23.5	<0.005	0.367	<0.3	5.2	<0.1	5.88	<0.001	13.5	2.66	<0.01	<0.01	0.014	0.0046	449
FP-16	13-Sep-07	83.3	<0.0005	<0.0001	0.00049	<0.03	0.000071	0.03	32.9	0.00017	0.000816	<0.0005	<0.3	3	<0.001	1.59	<0.00001	5.2	1.58	<0.0001	<0.0001	<0.01	0.00371	0.0021

Results are expressed as milligrams per litre except where noted.
< = Less than the detection limit indicated.

Sample ID	Date Sampled	Field Parameters					Physical Tests		Dissolved Anions				Dissolved Metals																															
		pH	Cond	Temp	ORP	Flow	Cond	pH	Acidity (to pH 8.3)	Alkalinity-Total	Cl	SO4	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	P	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn
			uS/cm	°C	mV	L/min	uS/cm		mg CaCO3/L	mg CaCO3/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
						Method Detection Limit:	2	0.01	1	1	0.5	0.5	0.2	0.2	0.2	0.01	0.005	0.2	0.1	0.01	0.05	0.01	0.01	0.01	0.03	0.05	0.01	0.1	0.005	0.03	0.05	0.3	2	0.2	0.05	0.01	2	0.005	0.2	0.03	0.01	0.03	0.005
03-GP01	6/9/2003	8.05	1928	12.7	635	2	1850	7.8	37	373	<0.5	989	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	239	<0.01	0.01	<0.01	<0.03	<0.05	0.02	167	0.015	<0.03	0.51	<0.3	3	<0.2	2.37	<0.01	6	1.14	<0.2	<0.03	<0.01	<0.03	6.69
03-GP02	6/9/2003	7.28	1456	13.7	622	Trace	1550	7.51	51	189	<0.5	932	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	197	<0.01	0.1	<0.01	<0.03	<0.05	0.02	112	0.224	<0.03	1.03	<0.3	3	<0.2	3.46	<0.01	8	1.41	<0.2	<0.03	<0.01	<0.03	14.3
03-GP04	6/9/2003	8.21	1896	15.4	617	1	1780	8.08	20	266	<0.5	1050	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	268	<0.01	0.02	<0.01	<0.03	<0.05	0.03	144	0.013	0.06	0.17	<0.3	5	<0.2	1.94	<0.01	6	1.78	<0.2	<0.03	<0.01	<0.03	0.073
03-GP05	6/9/2003	7.88	1289	3.7	586	3	1240	7.65	36	223	<0.5	627	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	158	<0.01	0.02	<0.01	<0.03	<0.05	0.03	96.9	<0.005	<0.03	0.07	<0.3	3	<0.2	1.78	<0.01	5	1.47	<0.2	<0.03	<0.01	<0.03	0.03
03-GP06	6/9/2003	8.36	1755	11.2	462	Trace	1660	8.13	11	264	2.7	995	<0.2	<0.2	<0.2	0.01	<0.005	<0.2	<0.1	<0.01	90	<0.01	<0.01	<0.01	<0.03	<0.05	0.05	235	<0.005	<0.03	<0.05	<0.3	4	<0.2	1.21	<0.01	5	0.403	<0.2	<0.03	<0.01	<0.03	<0.005
04-GP01	5/31/2004	7.81	946	12	349	Trace	935	8.29	<1.0	139	0.78	359	<0.2	<0.2	<0.2	0.014	<0.0050	<0.2	<0.1	<0.01	94.9	<0.01	<0.01	<0.01	<0.03	<0.05	0.023	70.9	<0.0050	<0.03	0.092	<0.3	2.9	<0.2	0.949	<0.01	<2	0.465	<0.2	<0.03	<0.01	<0.03	0.0188
04-GP02	5/31/2004	7.96	1174	8.6	360	15	1190	8.29	<1.0	210	2.3	456	<0.2	<0.2	<0.2	0.011	<0.0050	<0.2	<0.1	<0.01	117	<0.01	<0.01	<0.01	<0.03	<0.05	0.017	97.1	<0.0050	<0.03	0.108	<0.3	3.9	<0.2	0.879	<0.01	3	0.498	<0.2	<0.03	<0.01	<0.03	0.0238
04-GP03	5/31/2004	8	764	5.5	337	15	757	8.31	<1.0	187	0.86	225	<0.2	<0.2	<0.2	0.017	<0.0050	<0.2	<0.1	<0.01	64.8	<0.01	<0.01	<0.01	<0.03	<0.05	0.02	59.6	<0.0050	<0.03	0.08	<0.3	3.6	<0.2	1.11	<0.01	<2	0.289	<0.2	<0.03	<0.01	<0.03	<0.005
04-GP04	5/31/2004	7.95	341	4.3	354	60	346	8.28	<1.0	145	<0.50	34.7	<0.2	<0.2	<0.2	0.109	<0.0050	<0.2	<0.1	<0.01	46	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	9.78	<0.0050	<0.03	<0.05	<0.3	<2	<0.2	5.72	<0.01	6.9	0.314	<0.2	<0.03	<0.01	<0.03	<0.005
04-GP05	5/31/2004	7.87	1097	17.4	ecorded	Trace	1190	7.87	3.3	99.2	0.76	590	<0.2	<0.2	<0.2	0.342	<0.0050	<0.2	<0.1	<0.01	185	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	34.8	0.0252	<0.03	<0.05	<0.3	5.2	<0.2	1.4	<0.01	14.7	0.745	<0.2	<0.03	<0.01	<0.03	<0.005
04-GP06	6/1/2004	7.41	1744	12.4	296	0.1	1770	7.96	2.3	297	1.5	853	<0.2	<0.2	<0.2	0.011	<0.0050	<0.2	<0.1	<0.01	103	<0.01	<0.01	<0.01	<0.03	<0.05	0.036	206	0.0149	<0.03	0.056	<0.3	3.8	<0.2	1.33	<0.01	4.1	0.516	<0.2	<0.03	<0.01	<0.03	<0.005
04-GP07	6/1/2004	8.09	1059	8	310	5	1090	8.14	<1.0	245	0.84	403	<0.2	<0.2	<0.2	0.024	<0.0050	<0.2	<0.1	<0.01	83.9	<0.01	<0.01	<0.01	<0.03	<0.05	0.03	98.2	0.0083	<0.03	<0.05	<0.3	2.5	<0.2	0.887	<0.01	<2	0.418	<0.2	<0.03	<0.01	<0.03	<0.005
04-GP08	6/1/2004	8.34	1206	7.9	294	Trace	1280	8.04	3.7	268	0.61	513	<0.2	<0.2	<0.2	0.015	<0.0050	<0.2	<0.1	<0.01	144	<0.01	0.011	<0.01	<0.03	<0.05	0.022	89.3	0.0168	<0.03	0.052	<0.3	2.9	<0.2	1.58	<0.01	4	1.37	<0.2	<0.03	<0.01	<0.03	0.0133
04-GP10	6/1/2004	8.45	1518	7.3	ecorded	9	1520	7.92	5.8	273	<0.50	716	<0.2	<0.2	<0.2	0.011	<0.0050	<0.2	<0.1	<0.01	173	<0.01	0.022	<0.01	<0.03	<0.05	<0.01	109	0.0216	<0.03	0.418	<0.3	2.7	<0.2	1.44	<0.01	2.7	0.805	<0.2	<0.03	<0.01	<0.03	7.5
04-GP11	6/1/2004	7.5	1442	10.8	324	0.25	1480	7.61	13.4	217	<0.50	733	<0.2	<0.2	<0.2	0.014	<0.0050	<0.2	<0.1	<0.01	176	<0.01	0.101	<0.01	<0.03	<0.05	0.022	99.6	0.158	<0.03	1.03	<0.3	3	<0.2	3.06	<0.01	5.8	1.25	<0.2	<0.03	<0.01	<0.03	12
04-GP12	01-Jun-04	7.94	1709	14.6	306	0.1	1680	8.05	4	280	0.63	849	<0.2	<0.2	<0.2	0.018	<0.0050	<0.2	<0.1	<0.01	216	<0.01	0.018	<0.01	<0.03	<0.05	0.019	121	0.0102	0.046	0.13	<0.3	4.8	<0.2	1.74	<0.01	4.8	1.45	<0.2	<0.03	<0.01	<0.03	0.0326
04-GP13	01-Jun-04	8.28	789	12.8	306	0	775	8.29	<1.0	91.8	0.74	350	<0.2	<0.2	<0.2	0.043	<0.0050	<0.2	<0.1	<0.01	103	<0.01	<0.01	<0.01	<0.03	<0.05	0.011	34.3	0.558	<0.03	<0.05	<0.3	2.9	<0.2	0.726	<0.01	8.3	0.35	<0.2	<0.03	<0.01	<0.03	0.0307
04-GP14	01-Jun-04	6.78	1371	3.9	259	15	1340	6.67	173	28.5	1.18	782	<0.2	<0.2	0.34	0.03	<0.0050	<0.2	<0.1	0.098	113	<0.01	0.529	1.73	72	0.074	0.025	66.9	17.4	<0.03	0.65	<0.3	<2	<0.2	5.57	<0.01	16	0.552	<0.2	<0.03	<0.01	<0.03	97.5
05-SF-GP04	19-May-05	7.82	1651	5.4	407		1660	8.04	6.8	251	<0.5	802	<0.2	<0.2	<0.2	0.012	<0.005	<0.2	<0.1	<0.1	190	<0.01	<0.01	<0.01	<0.03	<0.05	0.015	149	0.0154	<0.03	0.191	<0.3	3.3	<0.2	1.08	<0.01	3.7	0.775	<0.2	<0.03	<0.01	<0.03	6.19
05-SF-GP08	19-May-05	7.88	1051	5.4	382		980	8.17	2.2	180	<0.5	385	<0.2	<0.2	<0.2	0.012	<0.005	<0.2	<0.1	<0.1	121	<0.01	<0.01	<0.01	<0.03	<0.05	0.017	71.6	<0.01	<0.03	<0.05	<0.3	2.4	<0.2	1.06	<0.01	3.6	0.902	<0.2	<0.03	<0.01	<0.03	0.0066
05-SF-GP09	19-May-05	8.19	935	12.6	370		926	8.3	<1	207	<0.5	333	<0.2	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	<0.1	88.2	<0.01	<0.01	<0.01	<0.03	<0.05	0.018	83.4	<0.01	<0.03	<0.05	<0.3	2.5	<0.2	0.879	<0.01	2.5	0.603	<0.2	<0.03	<0.01	<0.03	<0.005
05-SF-GP10	19-May-05	8.16	1695	11.9	381		1720	8.28	<1	285	<5	865	<0.2	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	<0.1	134	<0.01	<0.01	<0.01	<0.03	<0.05	0.037	204	<0.01	<0.03	0.058	<0.3	4.5	<0.2	1.28	<0.01	4.6	0.664	<0.2	<0.03	<0.01	<0.03	0.0059
05-S-GP01	19-May-05	8.19	1473	4.1	359		1430	8.16	2.8	259	1.23	601	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	<0.1	114	<0.01	0.031	<0.01	<0.03	<0.05	0.042	160	<0.01	<0.03	0.129	<0.3	4.2	<0.2	1.74	<0.01	5.2	0.862	<0.2	<0.03	<0.01	<0.03	0.068
05-S-GP02	19-May-05	8.05	660	5.5	404		649	7.9	3.4	76.6	<0.5	276	<0.2	<0.2	<0.2	0.024	<0.005	<0.2	<0.1	<0.1	78.9	<0.01	0.012	<0.01	0.148	<0.05	<0.01	40.4	2.18	<0.03	0.069	<0.3	2.1	<0.2	3.04	<0.01	4.5	0.281	<0.2	<0.03	<0.01	<0.03	0.204
05-S-GP03	19-May-05	7.48	1080	4.7	413		1070	7.7	8.2	144	<0.5	484	<0.2	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	<0.1	131	<0.01	0.014	<0.01	<0.03	<0.05	0.011	80.9	0.0656	<0.03	0.257	<0.3	2.9	<0.2	1.21	<0.01	3.4	0.555	<0.2	<0.03	<0.01	<0.03	5.74
05-S-GP05	19-May-05	7.87	1740	7.6	383		1740	8.16	3.7	208	<5	917	<0.2	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	<0.1	215	<0.01	<0.01	<0.01	<0.03	<0.05	0.026	151	<0.01	<0.03	<0.05	<0.3	4.8	<0.2	0.92	<0.01	6.4	1.27	<0.2	<0.03	<0.01	<0.03	0.0561
05-S-GP09	19-May-05	7.87	1014	8.5	386		1040	8.2	1.8	238	0.85	378	<0.2	<0.2	<0.2	0.017	<0.005	<0.2	<0.1	<0.1	80	<0.01	<0.01	<0.01	<0.03	<0.05	0.022	106	<0.01	<0.03	<0.05	<0.3	3	<0.2	0.68	<0.01	2.9	0.398	<0.2	<0.03	<0.01	<0.03	<0.005
05-S-GP11	19-May-05	6.81	1664	10.9	244		1590	6.87	111	76.3	<0.5	907	<0.2	<0.2	<0.2	0.026	<0.005	<0.2	<0.1	0.042	185	<0.01	0.38	0.017	39.8	<0.05	0.025	95.8	14.2	<0.03	0.438	<0.3	2.5	<0.2	4.64	<0.01	18.9	0.884	<0.2	<0.03	<0.01	<0.03	68
05-S-GP12	19-May-05	8.13	603	12.3	322		598	7.81	3.5	79.8	<0.5	241	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.1	77.5	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	22	0.306	<0.03	<0.05	<0.3	<2	<0.2	0.415	<0.01	5	0.229	<0.2	<0.03	<0.01	<0.03	0.0307
05-S-GP13	19-May-05	7.8	1938	13.8	378		1920	7.91	5.2	122	<5	1190	<0.2	<0.2	<0.2	0.024	<0.005	<0.2	<0.1	<0.1	310	<0.01	0.02	<0.01	0.106	<0.05	0.012	115	0.242	<0.03	0.119	<0.3	7.7	<0.2	2.52	<0.01	12.8	0.72	<0.2	<0.03	<0.01	<0.03	2.36
05-F-GP01	14-Sep-05	7.03	823	2.9	265	12	766	7.77	16.4	101	<0.50	322	<0.2	<0.2	<0.2	0.017	<0.0050	<0.2	<0.1	<0.1	94.6	<0.01	0.105	<0.010	10.8	<0.05	0.016	42.7	2.73	<0.03	0.104	<0.3	<2	<0.2	3.92	<0.01	21.1	0.528	<0.2	<0.03	<0.01	<0.03	14.4
05-F-GP02	14-Sep-05	8.28	788	5.9	383	20	754	8.27	1	208	<0.50	239	<0.2	<0.2	<0.2	0.074	<0.0050	<0.2	<0.1	<0.1	129	<0.01	<0.010	<0.010	<0.03	<0.05	<0.01	29.8	0.294	<0.03	<0.05	<0.3	<2	<0.2	5.29	<0.01	15.7	0.565	<0.2	<0.03	<0.01	<0.03	<0.005
05-F-GP03	14-Sep-05	8.21	317	3.6	349	180	312	8.31	<1.0	142	<0.50	36	<0.2	<0.2	<0.2	0.089	<0.0050	<0.2	<0.1	<0.1	46.1	<0.01	<0.010	<0.010	<0.03	<0.05	<0.01	11.9	0.013	<0.03	<0.05	<0.3	<2	<0.2	5.67	<0.01	6.9	0.313	<0.2	<0.03	<0.01	<0.03	<0.005
05-F-GP06	14-Sep-05	7.65	1440	7	353	Trace	1360	7.83	22.2	206	<2.5	670	<0.2	<0.2	<0.2	0.014	<0.0050	<0.2	<0.1	<0.1	144	<0.01	0.045	<0.010	<0.03	<0.05	0.018	92.6	0.253	<0.03	0.353	<0.3	<2	<0.2	3.13	<0.01	6	0.998	<0.2	<0.03	<0.01	0.031	17.1
05-F-GP07	14-Sep-05	7.84	1389	7.1	404	1.8	1360	8.04	7.2	370	<2.5	487	<0.2	<0.2	<0.2	0.017	<0.0050	<0.2	<0.1	<0.1	146	<0.01	<0.010	<0.010	<0.03	<0.05	0.025	97.7	<0.0050	<0.03	<0.05	<0.3	<2	<0.2	1.46	0.012	3.9	1.19	<0.2	<0.03	<0.01	<0.03	<0.005
05-F-GP11	14-Sep-05	8.28	963	12.5	342	Ponded	936	8.18	2	103	0.53	423	<0.2	<0.2	<0.2	0.04	<0.0050	<0.2	<0.1	<0.1	151	<0.01	<0.010	<0.010	<0.03	<0.05	<0.01	52.9	0.0832	<0.03	<0.05	<0.3	3.1	<0.2	0.155	<0.01	14.3	0.524	<0.2	<0.03	<0.01	<0.03	<0.005
05-SF-GP04	14-Sep-05	8.08	1953	6.8	351	Trace	1890	8.14	6.7	419	<5.0	906	<0.2	<0.2	<0.2	0.013	<0.0050	<0.2	<0.1	<0.1	236	<0.01	0.012	<0.010	<0.03	<0.05	0.02	158	0.008	<0.03	0.37	<0.3	2.8	<0.2	2.3	<0.01	6.1	1.09	<0.2	<0.03	<0.01	<0.05	5.74
05-SF-GP08	14-Sep-05	7.3	1511	8.1	352	Trace	1570	7.97	7	473	<2.5	551	<0.2	<0.2	<0.2	0.015	<0.0050	<0.2	<0.1	<0.1	119	<0.01	<0.010	<0.010	<0.03	<0.05	0.04	169	<0.0050	<0.03	<0.05	<0.3	2.8	<0.2	1.67	<0.01	4.3	0.741	<0.2	<0.03	<0.01	<0.04	<0.005
05-SF-GP09	14-Sep-05	7.45	1554	12.4	328	0.5	1460	8.16	4.4	467	<2.5	467	<0.2	<0.2	<0.2	0.02	<0.0050	<0.2	<0.1	<0.1	108	<0.01	<0.010	<0.010	<0.03	<0.05	0.034	152	<0.0050	<0.03	<0.05	<0.3	3.2	<0.2	1.1	<0.01	3	0.525	<0.2	<0.03	<0.01	<0.03	0.0074
05-SF-GP10	14-Sep-05	8.15	1839	9.2	339	Trace	1780	8.16	4.9	458	<5.0	765	<0.2	<0.2	<0.2	0.014	<0.0050	<0.2	<0.1	<0.1	170	<0.01	0.01	<0.010	<0.03	<0.05	0.05	198	<0.0050	<0.03	0.094	<0.3	3.7	<0.2	2.45	<0.01	5.2	0.904	<0.2	<0.03	<0.01	<0.04	0.0134
GP 04	27-May-06	7.89	1748	3	331	16	1780	8.06	8.7	283	<0.5	840	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	<0.01	208	<0.01	0.011	<0.01	<0.03	<0.05	0.014	156	0.0274	<0.03	0.277	<0.3	3.0	<0.2	1.34	<0.01	3.7	0.803	<0.2	<0.03	<0.01	<0.03	7.41
GP 06	27-May-06	7.73	1700	6.9	329	2.5	1750	7.77	25.8	201	<0.5	888	<0.2	<0.2	<0.2	0.012	<0.005	<0.2	<0.1	<0.01	210	<0.01	0.049	<0.01	<0.03	<0.05	0.019	141	0.157	<0.03	0.429	<0.3	3.8	<0.2	2.00	<0.01	5.9	1.20	<0.2	<0.03	<0.01	<0.03	12.1
GP 07	27-May-06	8.25	1103	3.9	309	1	1110	8.28	1.1	208	<0.5	440	<0.2	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	<0.01	139	<0.01	<0.01	<0.01	<0.03	<0.05	0.016	81.7	<0.005	<0.03	<0.05	<0.3	2.4	<0.2	1.17	<0.01	3.7	0.976	<0.2	<0.03	<0.01	<0.03	0.0091
GP 08	27-May-06	8.04	1267	5	299	trace	1290	8.26	1.7	400	<0.5	405	<0.2	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	<0.01	92.5	<0.01	<0.01	<0.01	<0.03	<0.05	0.033	146	<0.005	<0.03	<0.05	<0.3	2.7	<0.2	1.36	<0.01	3.9	0.662	<0.2	<0.03	<0.01	<0.03	0.0082
GP 09	27-May-06	8.05	1112	5.9	294		1170	8.25	2.1	266	0.94	434	<0.2	<0.2	<0.2	0.015	<0.005	<0.2	<0.1	<0.01	88.5	<0.01	<0.01	<0.01	<0.03	<0.05	0.023	124	0.0060	<0.03	<0.05	<0.3	3.0	<0.2	0.899	<0.01	2.8	0.421	<0.2	<0.03	<0.01	<0.03	0.0156
GP 10	27-May-06	8.36	2290	8.3	401	trace	2380	8.24	2.7	254	<2.5	1350	<0.2	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	<0.01	92.5	<0.01	<0.01	<0.01	<0.03	<0.05	0.056	349	<0.005	<0.03	<0.05	<0.3	5.9	<0.2	1.27	<0.01	6.5	0.296	<0.2	<0.03	<0.01	<0.03	0.0108
GP 11	27-May-06	8.01	781	8.8	309	0	771	7.56	12.6	101	<0.5	318	<0.2	<0.2	<0.2	0.029	<0.005	<0.2	<0.1	<0.01	106	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	38.8	0.767	<0.03	<0.05	<0.3	2.6	<0.2	0.868	<0.01	9.9	0.329	<0.2	<0.03	<0.01	<0.03	0.0297
GP 13[1]	27-May-06	7.64	2290	4.4	405	trace	2440	7.72	27.1	251	<2.5	1410	<0.2	<0.2	<0.2	0.013	<0.005	<0.2	<0.1	<0.01	212	<0.01	0.012	<0.01	<0.03	<0.05	0.024	280	0.464	<0.03	0.252	<0.3	3.2	<0.2	1.24	<0.01	7.5	0.695	<0.2	<0.03	<0.01	<0.03	11.6
GP 14[2]	27-May-06	7.07	717	5.2	337	3.8	1100	7.14	40.8	111	<0.5	514	<0.2	<0.2	<0.2	0.023	<0.005	<0.2	<0.1	<0.01	135	<0.01	0.111	<0.01	13.5	<0.05	0.014	61.8	5.39	<0.03	0.099	<0.3	<2	<0.2	4.23	<0.01	18.4	0.748	<0.2	<0.03	<0.01	<0.03	17.1
GP-01	23-Sep-06	6.95	1040	3.8		6.1	947	7.47	30.7	76.0	<0.50	430	<0.20	<0.20	<0.20	0.012	<0.0050	<0.20	<0.10	0.013	94.2	<0.010	0.138	<0.010	28.5	<0.050	0.014	40.6	4.27	<0.030	0.139	<0.30	<2.0	<0.20	3.50	<0.010	14.2	0.439	<0.20	<0.030	<0.010	<0.030	23.7
GP-02	23-Sep-06	8.59	736	3.7		30	709	8.32	<1.0	198	<0.50	194	<0.20	<0.20	<0.20	0.073	<0.0050	<0.20	<0.10	<0.010	105	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	23.6	0.116	<0.030	<0.050	<0.30	<2.0	<0.20	5.24	<0.010	10.2	0.456	<0.20	<0.030	<0.010	<0.030	<0.0050
GP-03	23-Sep-06	8.52	315	5.4		360	300	8.28	<1.0	136	<0.50	32.2	<0.20	<0.20	<0.20	0.083	<0.0050	<0.20	<0.10	<0.010	37.3	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	9.41	0.0100	<0.030	<0.050	<0.30	<2.0	<0.20	4.85	<0.010	4.9	0.237	<0.20	<0.030	<0.010	<0.030	<0.0050
GP-04	23-Sep-06	8.14	2030	8.3		trace	1960	8.17	7.1	415	<0.50	867	<0.20	<0.20	<0.20	0.012	<0.0050	<0.20	<0.10	<0.010	246	<0.010	0.011	<0.010	<0.030	<0.050	0.023	179	0.0089	<0.030	0.331	<0.30	3.0	<0.20	2.03	<0.010	5.7	1.02	<0.20	0.067	<0.010	<0.030	6.18
GP-09	23-Sep-06	8.75	1925	7.6		trace	1860	8.22	4.3	350	2.77	832	<0.20	<0.20	<0.20	0.015	<0.0050	<0.20	<0.10	<0.010	150	<0.010	<0.010	<0.010	<0.030	<0.050	0.050	232	<0.0050	<0.030	0.063	<0.30	4.1	<0.20	2.24	<0.010	5.2	0.831	<0.20	0.086	<0.010	<0.030	0.0170
GP-10	23-Sep-06	8.06	1899	5.8		trace	1840	8.17	6.8	499	1.54	710	<0.20	<0.20	<0.20	0.012	<0.0050	<0.20	<0.10	<0.010	164	<0.010	<0.010	<0.010	<0.030	<0.050	0.042	213	<0.0050	<0.030	0.073	<0.30	3.1	<0.20	2.14	<0.010	4.0	0.777	<0.20	0.076	<0.010	<0.030	0.0146
GP-11	23-Sep-06	8.52	1182	4.6		0	1140	8.06	4.5	110	0.59	537	<0.20	<0.20	<0.20	0.032	<0.0050	<0.20	<0.10	<0.010	159	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	067	0.0303	<0.030	<0.050	<0.30	3.3	<0.20	0.18	<0.010	16.6	0.530	<0.20	<0.030	<0.010	<0.030	0.0218
GP-04	27-May-07	7.39	239	6.8	36	2	2430	7.83	17.0	353	<2	1370	0.091	0.034	0.017	0.011	<0.001	<0.001	<0.05	0.0063	269	<0.001	0.021	0.008	0.64	0.035	0.035	226	0.043	0.0088	0.380	<0.15	3.3	0.003	2.20	<0.00025	6.9	1.010	0.0042	<0.001	<0.001	0.033	11.7000
GP-07	27-May-07	7.81	1171	7.2	341	1	1120	8.04	4.0	223	<1	470	0.003	<0.0002	0.0009	0.012	<0.0002	<0.0002	<0.01	0.00013	138	<0.0002	0.0012	0.0005	<0.01	<0.0002	0.025	091	<0.003	0.0017	0.015	<0.03	2.2	0.0013	1.57	<0.00005	4.3	1.130	0.0002	<0.0002	<0.0002	0.015	0.0110
GP-09	27-May-07	8.6	1445	1.3	218	trickle	1360	8.15	4.0	326	<1	574	0.006	0.0005	0.0009	0.032	<0.0002	<0.0002	<0.01	0.0001	104	<0.0002	0.0011	0.0014	0.04	0.0005	0.044	171	0.012	0.0018	0.019	<0.03	4.0	0.0014	0.76	<0.00005	3.5	0.506	0.00019	<0.0002	<0.0002	0.023	0.0650
GP-01	29-May-07	7.02	1250	7.4	160	1	1130	7.05	64.0	105	0.52	614	<0.001	0.0039	0.078	0.021	<0.0002	<0.0002	<0.01	0.00852	147	<0.0002	0.155	0.0042	12	<0.0002	0.018	076	9.99	0.002	0.133	<0.03	2.0	0.001	4.51	0.00007	15.9	0.839	0.002	<0.0002	<0.0002	0.0027	35.1000
GP-02	29-May-07	8.54	425	7.7	344	200	0548	7.94	2.0	116	0.60	175	0.001	0.0011	0.0014	0.026	<0.0002	<0.0002	<0.01	0.00002	089	<0.0002	<0.0002	0.0013	<0.01	<0.0002	0.002	023	0.0091	0.0026	0.001	<0.03	3.6	0.003	2.14	<0.00005	7.1	0.392	<0.00002	<0.0002	<0.0002	0.041	0.0100
GP-03	29-May-07	8.41	343	8.6	337	250	0286	8.21	<0.5	148	<1	036	<0.001	<0.0002	0.0017	0.097	<0.0002	<0.0002	<0.01	0.00003	051	<0.0002	<0.0002	0.0004	<0.01	<0.0002	0.003	012	0.0095	0.0014	<0.0002	<0.03	1.1	0.0043	6.00	<0.00005	6.5	0.313	<0.00002	<0.0002	<0.0002	0.011	0.0280
GP-01	11-Sep-07	8.26	890	6.2	36	4.5	0861	7.18	53.8	050	<0.5	400	<0.005	0.00525	0.00843	0.016	<0.0025	<0.0025	<0.05	0.0125	093	<0.0025	0.132	0.00595	9.08	<0.00025	<0.025	046	4.27	0.00086	0.130	<0.3	<2	<0.005	3.27	0.00006	17.8	0.506	0.00322	<0.0005	<0.01	0.000758	27.3000
GP-02	11-Sep-07	8.55	786	7.8	184	20	0779	8.28	<1	193	0.51	235	0.0028	0.00054	0.0228	0.079	<0.001	<0.001	<0.02	<0.0001	127	<0.001	<0.0002	0.00116	<0.03	0.00021	<0.01	033	0.126	0.0026	0.001	<0.3	2.2	<0.002	5.92	<0.00002	12.4	0.612	<0.0002	<0.0002	<0.01	0.0174	0.0144
GP-03	11-Sep-07	7.72	350	10.1	193	200	0334	8.33	<1	143	<0.5	044	0.0023	0.00018	0.00153	0.086	<0.0005	<0.0005	<0.01	<0.00005	052	<0.0005	<0.0001	0.00066	<0.03	0.000368	<0.005	012	0.0123	0.00157	<0.0005	<0.3	<2	0.0048	5.56	<0.00001	7.1	0.299	<0.0001	<0.0001	<0.01	0.0104	0.0074
GP-07	11-Sep-07	8.72	1275	11.5	157	trickle	1250	8.26	1.0	255	<0.5	501	<0.005	<0.0005	0.00093	0.015	<0.0025	<0.0025	<0.05	<0.00025	145	<0.0025	0.00087	0.00069	<0.03	<0.00025	0.030	115	0.00279	0.00102	0.021	<0.3	2.9	<0.005	1.41	<0.00005	5.1	1.390	<0.0005	<0.0005	<0.01	0.0166	0.0111
GP10	11-Sep-07	8.19	1732	11.2	135	trickle	1730	8.27	<1	373	1.44	721	<0.005	<0.0005	0.00106	0.011	<0.0025	<0.0025	<0.05	<0.00025	128	<0.0025	0.00351	<0.0005	0.046	<0.00025	0.041	221	0.00104	0.00203	0.042	<0.3	3.9	<0.005	2.19	<0.00005	4.0	0.650	<0.0005	<0.0005	<0.01	0.0264	0.0109

Footnotes:

Results are expressed as milligrams per litre except where noted.

< = Less than the detection limit indicated.

[1] - Below bench of GP01

[2] - Above GP01 which was sampled at lake level

Sample ID	Date Sampled	Field Parameters pH	Cond uS/cm	Temp °C	ORP mV	Flow L/min	Physical Tests Cond uS/cm	pH	Dissolved Anions Acidity (to pH 8.3) mg CaCO3/L	Alkalinity-Total mg CaCO3/L	Cl mg/L	SO4 mg/L
						Method Detection Limit:	2	0.01	1	1	0.5	0.5
04-VP01	5/31/2004	7.27	181	8.4	385	6	174	8.04	1.3	59.5	<0.50	23.3
04-VP02	6/1/2004	2.95	1261	14.5	675	15	1240	2.83	408	<1.0	0.57	582
04-VP03	6/1/2004	7.57	405	20.5	ecorded	0.25	405	8.17	<1.0	201	0.62	25.1
04-VP04	6/1/2004	3.96	7390	17.8	483	2	7410	3.61	4370	<1.0	<0.50	7070
04-VP05	6/1/2004	5.58	2810	8.3	257	Trace	2750	5.14	643	10.6	0.75	1930
04-VP06	6/1/2004	2.7	12.9	10210	715	Trace	10100	2.74	3270	<1.0	<0.50	11139
04-VP07	6/1/2004	3.15	5750	11.3	619	1	5830	2.89	2070	<1.0	1.02	5110
04-VP08	6/2/2004	2.84	9110	6.9	610	Trace	8350	3.08	3570	<1.0	1.19	8080
04-VP09	6/2/2004	5.62	1033	4.4	329	2	940	6.55	115	24.1	<0.50	485
04-VP10	6/2/2004	6.33	809	13.3	357	Trace	1400	3.67	356	<1.0	<0.50	797
04-VP11	6/2/2004	3.44	1465	11.9	669	90	773	7.32	17.4	150	<0.50	286
04-VP12	6/2/2004	7.18	1372	12.6	434	Trace	1330	8	8.4	216	<0.50	600
04-VP13	6/2/2004	6.82	2080	12	458	Trace	2020	7.24	87.5	14	1.37	1370
04-VP14	6/2/2004	7.18	583	12.6	446	0.25	568	7.46	35	90	<0.50	212
04-VP15	6/2/2004	7.1	1243	12.8	461	Trace	1230	7.4	75	15.5	<0.50	684
04-VP16	6/2/2004	3.71	2980	15.1	637	0.1	2920	4.08	766	<1.0	1.08	2200
05-VP01	17-May-05	2.7	1950	12.5	619		405	8.3	<1	3.5	<0.5	473
05-VP02	17-May-05	7.94	408	15.1	258		405	8.39	<1	213	<0.5	25
05-VP03	17-May-05	2.82	1369	6.8	350		1170	2.82	401	<2	<0.5	448
05-VP04	17-May-05	3.32	7040	8	544		6780	2.94	4230	<2	<25	6960
05-VP05	17-May-05	5.06	1420	7.2	398		1360	6.89	221	3.6	<0.5	799
05-VP06	17-May-05	5.41	2000	7.6	298		1990	6.44	276	5.6	<5	1230
05-VP07	17-May-05	4.06	3290	7.2	472		3310	3.67	876	<2	<10	2220
05-VP09	19-May-05	2.91	11560	6.6	685		11000	2.7	10800	<2	<50	14000
VP01	22-Sep-06	6.78	671	4.9	341	trace	637	7.74	9.4	183	<0.50	174
VP02	22-Sep-06	7.08	4470	6.1	212	trace	4230	6.48	806	31.6	<25	3320
VP03	22-Sep-06	3.59	1057	5.9	333		1030	4.02	160	<2.0	<0.50	521
VP-04	22-Sep-06	5.55	1623	6.7	272	trace	1590	4.72	344	9.6	<0.50	968
VP05	22-Sep-06	3.62	2020	6	407	trace	1920	3.92	164	<2.0	<0.50	1250
VP06	22-Sep-06	8.24	885	7.7	132	trace	840	8	4.5	91.9	<0.50	369
VP07	22-Sep-06	6.48	3680	6.9	360	20	3460	5.24	1570	10.5	<250	2740
VP09	22-Sep-06	6.91	646	6.7		trace	605	7.76	9.1	62.9	<0.50	246
VP10	22-Sep-06	3.56	2120	6.9		trace	2060	3.47	239	<2.0	<0.50	1340
VP11	22-Sep-06	3.02	6030	7.9		<1	5510	3.1	3560	<2.0	<250	5390
VP-01	12-Sep-07	8.69	611	10.6	280	2	572	6.89	18	115	<0.5	200
VP-02	12-Sep-07	6.56	3990	18.4	324	1	4000	6.5	860	32.3	<50	3380
VP-03	12-Sep-07	3.68	1012	9.9	387	20	995	4.45	178	<2	<0.5	535
VP-07	12-Sep-07	5.39	5010	6.3	115	200	4900	4.1	2214.4	5.3	<500	4530
VP-09	12-Sep-07	6.85	390	6.5	105	1	389	7.97	4.8	171	<0.5	44.3
VP-10	12-Sep-07	3.57	2440	7.3	324	trace	2580	3.37	563	<2	<50	1710
VP-11	12-Sep-07	3.42	7230	12.7	354	trickle	7340	3.37	5090	<2	<500	7460

Sample ID	Dissolved Metals Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L
	0.2	0.2	0.2	0.01	0.005	0.2	0.1	0.01	0.05	0.01	0.01	0.01	0.03	0.05	0.01	0.1
04-VP01	<0.20	<0.2	<0.2	0.025	<0.005	<0.2	<0.1	<0.010	27	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	2.33
04-VP02	7.38	<0.2	<0.2	0.014	<0.005	<0.2	<0.1	0.025	28.1	<0.010	0.345	4.75	129	0.436	0.011	13.3
04-VP03	<0.20	<0.2	<0.2	0.034	<0.005	<0.2	<0.1	<0.010	52.8	<0.010	<0.010	<0.010	<0.030	<0.050	<0.010	14.7
04-VP04	45.6	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	3.21	221	<0.10	4.65	41.3	1410	2.49	<0.10	226
04-VP05	<0.40	<0.40	<0.40	0.021	<0.010	<0.40	<0.20	0.059	232	<0.020	0.844	0.025	166	<0.10	0.103	131
04-VP06	19.1	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	1.08	404	<0.10	9.14	11.9	421	<0.50	0.33	918
04-VP07	54.6	<0.60	<0.60	<0.030	<0.015	<0.60	<0.30	0.823	363	<0.030	3.34	8.64	492	0.91	0.2	326
04-VP08	12.1	<2.0	<2.0	<0.10	<0.050	<2.0	<1.0	1.13	455	<0.10	4.25	1.77	860	<0.50	0.35	675
04-VP09	<0.20	<0.2	<0.2	0.018	<0.005	<0.2	<0.1	0.045	98.6	<0.010	0.187	<0.010	50	<0.050	0.03	32.7
04-VP10	4	<0.2	<0.2	0.017	<0.005	<0.2	<0.1	0.322	105	<0.010	0.355	1.54	6.14	0.685	0.048	55.6
04-VP11	<0.20	<0.2	<0.2	0.018	<0.005	<0.2	<0.1	<0.010	129	<0.010	0.05	<0.010	1.4	<0.050	<0.010	29
04-VP12	<0.20	<0.2	<0.2	0.015	<0.005	<0.2	<0.1	<0.010	199	<0.010	<0.010	<0.010	<0.030	<0.050	0.045	77.2
04-VP13	<0.20	<0.2	<0.2	0.011	<0.005	<0.2	<0.1	<0.010	324	<0.010	0.113	<0.010	<0.030	<0.050	0.157	91.8
04-VP14	<0.20	<0.2	<0.2	0.041	<0.005	<0.2	<0.1	0.036	70.2	<0.010	0.072	<0.010	<0.030	<0.050	0.01	21.6
04-VP15	<0.20	<0.2	<0.2	0.011	<0.005	<0.2	<0.1	0.036	166	<0.010	0.144	<0.010	<0.030	0.101	0.072	44.5
04-VP16	49.3	<0.2	0.2	<0.010	0.0132	<0.2	<0.1	0.284	298	<0.010	1.41	2.37	4.17	1.85	0.309	147
05-VP01	0.27	<0.2	<0.2	0.221	<0.005	<0.2	<0.1	0.075	117	<0.01	0.134	1.59	20.8	<0.05	<0.01	35.1
05-VP02	<0.2	<0.2	<0.2	0.04	<0.005	<0.2	<0.1	<0.01	65.6	<0.01	<0.01	<0.01	<0.03	<0.05	<0.01	15.1
05-VP03	9.04	<0.2	<0.2	0.015	<0.005	<0.2	<0.1	0.021	36.1	0.016	0.278	3.35	91.1	0.466	0.019	15.7
05-VP04	64.9	<0.4	1.15	<0.02	<0.01	<0.4	<0.2	2.13	218	0.113	3.72	111	1620	1.56	0.111	159
05-VP05	<0.2	<0.2	<0.2	0.012	<0.005	<0.2	<0.1	0.119	168	<0.01	0.236	0.08	70.3	<0.05	0.033	49.8
05-VP06	1.19	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.31	190	<0.01	1.36	0.102	3.9	1.35	0.101	154
05-VP07	24.4	<0.2	<0.2	<0.01	<0.005	<0.2	<0.1	0.651	249	0.018	1.66	1.21	29.2	2.16	0.153	261
05-VP09	151	<1	31.7	<0.05	<0.025	<1	<0.5	2.9	385	0.36	7.28	126	2630	1.11	0.396	660
VP01	<0.20	<0.20	<0.20	0.015	<0.0050	<0.20	<0.10	<0.010	96.6	<0.010	0.014	<0.010	3.47	<0.050	0.01	26.4
VP02	<0.40	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	0.372	378	<0.020	2.44	<0.020	<0.060	<0.10	0.185	366
VP03	2.98	<0.20	<0.20	0.018	<0.0050	<0.20	<0.10	0.118	87.4	<0.010	0.13	0.495	3.59	0.435	0.036	43.9
VP-04	1.19	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.371	159	<0.010	0.746	4.02	0.53	2.67	0.057	69.6
VP05	3.52	<0.20	<0.20	0.014	<0.0050	<0.20	<0.10	<0.010	302	<0.010	0.227	0.069	1.06	0.282	0.162	77.1
VP06	<0.20	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	<0.010	169	<0.010	<0.010	<0.010	<0.030	<0.050	0.034	25.5
VP07	<0.20	<0.20	<0.20	<0.010	<0.0050	<0.20	<0.10	0.291	198	<0.010	1.63	0.023	580	<0.050	0.082	144
VP09	<0.20	<0.20	<0.20	0.012	<0.0050	<0.20	<0.10	<0.010	89	<0.010	0.05	<0.010	6.62	<0.050	0.019	26.5
VP10	1.44	<0.20	<0.20	0.011	<0.0050	<0.20	<0.10	0.012	186	<0.010	0.359	0.234	12.6	0.071	0.076	118
VP11	24.2	<0.40	<0.40	<0.020	<0.010	<0.40	<0.20	1.03	168	<0.020	2.92	3.9	1510	2.07	0.097	141
VP-01	0.0028	0.0002	0.0059	0.0158	<0.001	<0.001	<0.02	0.0144	85.5	<0.001	0.0378	0.0135	0.22	0.0007	0.01	26.1
VP-02	<0.2	<0.02	<0.02	0.023	<0.1	<0.1	<2	0.397	390	<0.1	2.43	0.314	<0.06	<0.01	<1	381
VP-03	3.04	<0.002	<0.002	0.0191	<0.01	<0.01	<0.2	0.122	84	<0.01	0.136	0.448	1.58	0.495	<0.1	44.7
VP-07	0.6	<0.02	0.043	<0.01	<0.1	<0.1	<2	0.573	249	<0.1	2.7	0.071	857	0.096	<1	213
VP-09	0.0015	<0.0001	0.0013	0.0281	<0.0005	0.0005	<0.01	0.00023	58.6	<0.0005	0.00126	0.00053	0.551	0.0002	0.0099	15.3
VP-10	5.32	<0.005	0.0054	0.0109	<0.025	<0.025	<0.5	0.0409	216	<0.025	0.623	1.35	64.3	0.0453	<0.25	152
VP-11	52.2	0.024	0.527	<0.01	<0.1	<0.1	<2	1.67	191	<0.1	4.4	12	2440	2.16	<1	172

Sample ID	Mn mg/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	Tl mg/L	Sn mg/L	Ti mg/L	V mg/L	Zn mg/L
	0.005	0.03	0.05	0.3	2	0.2	0.05	0.01	2	0.005	0.2	0.03	0.01	0.03	0.005
04-VP01	<0.0050	<0.030	<0.050	<0.30	<2.0	<0.20	3.92	<0.01	<2.0	0.087	<0.20	<0.03	<0.01	<0.03	0.0074
04-VP02	7.34	<0.030	0.075	<0.30	<2.0	<0.20	8.53	<0.01	2.1	0.145	<0.20	<0.03	<0.01	<0.03	12.1
04-VP03	0.0084	<0.030	<0.050	<0.30	<2.0	<0.20	5.89	<0.01	6	0.304	<0.20	<0.03	<0.01	<0.03	<0.005
04-VP04	168	<0.30	2.11	<3.0	<20	<2.0	15.7	<0.10	<20	0.258	<2.0	<0.30	<0.10	<0.30	1530
04-VP05	90	<0.060	0.65	<0.60	7.9	<0.40	5.88	<0.02	5.1	0.807	<0.40	<0.06	<0.02	<0.06	229
04-VP06	924	<0.30	3.77	<3.0	<20	<2.0	13.5	<0.10	<20	1.11	<2.0	<0.30	<0.10	<1.0	1550
04-VP07	312	<0.090	1.69	<0.90	9.5	<0.60	19.7	<0.03	<6.0	0.946	<0.60	<0.09	<0.03	<0.30	558
04-VP08	559	<0.30	3.34	<3.0	<20	<2.0	24	<0.10	<20	1.52	<2.0	<0.30	<0.10	<1.0	1550
04-VP09	21.4	<0.030	0.076	<0.30	2.2	<0.20	5.08	<0.01	4.9	0.488	<0.20	<0.03	<0.01	<0.03	48.1
04-VP10	16.1	<0.030	0.603	<0.30	<2.0	<0.20	8.99	<0.01	<2.0	0.447	<0.20	<0.03	<0.01	<0.03	180
04-VP11	0.698	<0.030	0.125	<0.30	<2.0	<0.20	5.76	<0.01	3	1.38	<0.20	<0.03	<0.01	<0.03	5.19
04-VP12	0.245	<0.030	0.087	<0.30	2.4	<0.20	2.02	<0.01	2.3	1.05	<0.20	<0.03	<0.01	<0.03	2.86
04-VP13	31.7	<0.030	0.646	<0.30	3.1	<0.20	3.14	<0.01	2.4	1.18	<0.20	<0.03	<0.01	<0.03	42
04-VP14	4.13	<0.030	0.183	<0.30	<2.0	<0.20	4.39	<0.01	2.1	0.334	<0.20	<0.03	<0.01	<0.03	19.9
04-VP15	15	<0.030	0.745	<0.30	<2.0	<0.20	3.52	<0.01	2.3	0.794	<0.20	<0.03	<0.01	<0.03	37.7
04-VP16	51.9	<0.030	2.51	<0.30	4.2	<0.20	20.9	<0.01	5.2	1.23	0.2	<0.03	<0.01	<0.03	238
05-VP01	11.7	<0.03	0.168	<0.3	<2	<0.2	5.48	<0.01	<2	0.331	<0.2	<0.03	<0.01	<0.03	32.3
05-VP02	0.0184	<0.05	<0.05	<0.3	<2	<0.2	6.19	<0.01	6.1	0.305	<0.2	<0.03	<0.01	<0.2	0.0094
05-VP03	5.57	<0.03	0.068	<0.3	<2	<0.2	11.2	<0.01	2.9	0.162	<0.2	<0.03	<0.01	<0.03	11.2
05-VP04	148	<0.1	1.79	<0.6	<4	<0.4	16.5	<0.02	<4	0.295	<0.4	<0.06	<0.02	<0.06	1230
05-VP05	36.1	<0.03	0.117	<0.3	2.5	<0.2	5.84	<0.01	7.2	0.729	<0.2	<0.03	<0.01	<0.03	75
05-VP06	55.5	<0.03	2.84	<0.3	3.2	<0.2	5.35	<0.01	<2	0.516	<0.2	<0.03	<0.01	<0.03	126
05-VP07	47.8	<0.03	2.35	<0.3	<2	<0.2	13.7	<0.01	<2	0.436	<0.2	<0.03	<0.01	0.044	235
05-VP09	546	<0.15	3.95	6	<10	<1	27.4	<0.05	<10	0.86	<1	<0.15	<0.05	<0.4	1710
VP01	0.474	<0.030	0.057	<0.30	<2.0	<0.20	5.31	<0.010	5.4	0.668	<0.20	<0.030	<0.010	<0.030	2.91
VP02	67.1	<0.060	8.68	<0.60	4.8	<0.40	1.96	<0.020	4.7	2.47	<0.40	<0.060	<0.020	<0.080	627
VP03	6.81	0.031	0.341	<0.30	<2.0	<0.20	7.37	<0.010	<2.0	0.33	<0.20	<0.030	<0.010	<0.030	78.9
VP-04	22.9	<0.030	0.545	<0.30	<2.0	<0.20	7.94	<0.010	<2.0	0.601	<0.20	<0.030	<0.010	<0.030	180
VP05	39.3	<0.030	0.761	<0.30	2.4	<0.20	10.3	<0.010	2.6	1.03	<0.20	<0.030	<0.010	<0.030	72.7
VP06	0.021	<0.030	<0.050	<0.30	2	<0.20	1.51	<0.010	2.2	0.563	<0.20	<0.030	<0.010	<0.030	0.148
VP07	84.6	<0.030	0.946	<0.30	3.3	<0.20	6.65	<0.010	5.6	0.755	<0.20	0.062	<0.010	<0.030	361
VP09	7.23	<0.030	<0.050	<0.30	<2.0	<0.20	3.93	<0.010	5.3	0.408	<0.20	<0.030	<0.010	<0.030	8.26
VP10	60.5	0.033	0.221	<0.30	4.8	<0.20	6.88	<0.010	7.1	0.576	<0.20	0.036	<0.010	<0.030	96.4
VP11	90.8	<0.060	1.05	<0.60	<4.0	<0.40	13.7	<0.020	<4.0	0.369	<0.40	<0.060	<0.020	<0.060	569
VP-01	0.561	0.0197	0.0565	<0.3	<2	0.0032	3.69	0.000021	2.4	0.377	0.0006	<0.0002	<0.01	0.0012	7.42
VP-02	56.6	<0.01	7.58	<0.6	5.5	<0.2	4.07	<0.002	<4	2.8	<0.02	<0.02	<0.02	0.0277	608
VP-03	6.92	<0.001	0.31	<0.3	<2	<0.02	8.78	<0.0002	<2	0.336	<0.002	<0.002	<0.01	0.0086	84.3
VP-07	150	<0.01	1.56	<0.6	<4	<0.2	8.74	<0.002	5.3	0.961	<0.02	<0.02	0.024	0.0026	687
VP-09	0.216	<0.00005	0.00082	<0.3	<2	<0.001	6.72	<0.00001	5	0.35	<0.0001	<0.0001	<0.01	0.0006	0.352
VP-10	89.5	<0.0025	0.343	<0.3	5.4	<0.05	10.4	<0.0005	7.5	0.68	<0.005	<0.005	0.011	0.0049	181
VP-11	125	<0.01	1.48	<1.5	<10	<0.2	22.5	<0.002	<10	0.279	0.041	<0.02	<0.05	0.0376	855

Footnotes:

Results are expressed as milligrams per litre except where noted.

< = Less than the detection limit indicated.

Appendix C

Thermal and Pore Gas Monitoring Results

Location: Faro
Hole ID: 60M1

	Date	19-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	26-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	**Port Label**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**
0.7	0.7A	19.6	17.1	18.9	19.2	7.6	18.6	10.1	5.7	19.6	15.5	15.4	20	17	13	19.3
0.7	0.7B	19.6	16.9	18.9	19.2	7.5	18.6	10	5.2	19.6	15.9	15.3	20	17	13.6	19.2
1.4	1.4A	19.7	17.1	19.1	18.3	6.7	18.6	10.6	5.1	19.7	14.9	16	20	17	10.4	19.7
1.4	1.4B	19.7	17.5	19.1	18.3	6.6	18.6	10.6	5.1	19.8	14.9	16	20	17	10.4	19.7
2.8	2.8A	18.5	15.7	15.3	17.2	5.9	15.1	8.1	1.8	17.4	13.7	12.1	17.9	15.8	8.9	17.4
2.8	2.8B	18.5	15.7	15	17.3	5.9	14.7	7.8	2.2	17.4	13.5	12	17.8	15.7	8.9	17.5
5.6	5.6A	14.9	15.7	13.4	15.5	6	14.5	6.4	3.9	17.5	12.4	12.4	18.2	15.3	9.7	17.8
5.6	5.6B	15.6	15.5	13.2	15.2	6.3	14.3	5.7	4	17.5	12.3	12.1	18.3	15.5	9.7	17.9
10	10B[1]	17	12.2	11.1	14	9.2	10.7	7.7	4.2	13.6	10.4	10.4	14.9	17.8	8.4	14.3
10	20[1]	16.8	12.2	11.1	14.1	9.3	10.7	7.3	3.7	13.2	11.4	10.6	14.9	16.2	7.8	14.3
20	10A[1]	10	5.5	5.8	6.4	3.7	6.9	2.8	1.7	15.1	3.8	9.3	16.2	3.9	9.2	15.7
30	30	20.9	9.5	8.4	8.9	9	8.5	9.7	11.3	blocked	11.2	10.1	10.5	11.2	10.3	11.8
40	40	19.8	19.8	19	19.5	19.3	19.3	19.5	19.2	19.3	19.3	19.4	19.5	19.4	19.4	19.9
60	60	19.8	19.4	17.6	18.8	18.9	18.3	18.6	18.1	19.6	18.4	18.1	20.2	17.6	17.8	19.4

Note: (1) Port 20 and Port 10 A labels reversed

Location: Faro
Hole ID: 30M1

	Date	19-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	26-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	**Port Label**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**	**Oxygen (%)**
0.7	0.7A	19.4	16.6	16.8	17.4	16.4	19	17.8	16	19.4	16.8	16.9	20.9	16.9	15.5	18.3
0.7	0.7B	19.4	16.6	16.8	plugged	16.4	19	17.8	15.9	19.4	16.8	16.9	20.9	16.9	15.5	18.4
1.4	1.4A	19.3	16.6	16.7	plugged	16.4	19	17.8	16	blocked	16.8	16.9	19.9	17	15.6	18.4
1.4	1.4B	19.3	16.6	16.8	plugged	16.4	19	18	16	19.4	16.8	16.9	20	17	15.5	18.4
2.8	2.8A	19.3	16.6	16.8	17.3	16.6	19	17.9	16.1	blocked	17	17	20	17.2	15.6	18.4
2.8	2.8B	19.3	16.6	16.8	17.3	16.6	19	17.9	16.1	19.5	17	17	20.8	17.2	15.6	18.4
5.6	5.6A	19.7	17	17.6	17.3	17.9	19.4	17.8	16.4	19.6	17.4	16.8	20.2	18	15.9	18.7
5.6	5.6B	19.7	17	17.6	plugged	17.9	19.4	17.8	16.4	19.7	17.4	16.8	20.1	18	15.9	18.7
10	10A	19.4	16.1	17.6	17	16.9	19.1	16.2	16.3	19.5	16.1	16.8	19.8	16.4	15.7	18.4
10	10B	19.4	16.1	17.7	plugged	16.9	19.1	16.2	16.3	19.5	16.1	16.8	19.8	16.4	15.7	18.4
20	20	20.2	16.1	19.7	plugged	16.4	19.3	14.8	18.4	19.9	17.2	20	20.2	17.4	18.1	17.7
30	30	12.9	7.4	12.7	10.1	6.7	9.1	not recorded	9.2	13.3	7.4	13.1	12.2	7.8	10.6	9.1

Notes : '*' indicates suspect value
-grey cells indicate monitoring points that were found to be plugged during February 2006 or subsequent monitoring

Location: Grum
Hole ID: 10M2

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	Port Label	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)
0.7	0.7	20.6	20.1	20.6	Not recorded	20.6	20.6	20.3	17.7	20.6	20.4	20.6	20.4	20.4	20.1	20.6
1.4	1.4A	14.8	10	10.2	Not recorded	*0.2	14.3	10.3	14.1	7.8	0	15.2	4.8	12.3	17.2	17.7
1.4	1.4B	10	8.8	9.8	Not recorded	20.3	13.2	10	14	7.3	blocked			blocked	blocked	blocked
2.8	2.8A	0.6	14.7	2.5	Not recorded	*0.2	3.5	2.3	3.1	0.3	blocked			blocked	blocked	blocked
2.8	2.8B	3.4	11.6	2.5	Not recorded	3.5	3.5	2.1	3.1	0.3	blocked			blocked	blocked	blocked
5.6	5.6A	1	10.9	12.7	Not recorded	10.2	10.4	7.5	12.4	0.5	7.6	11.8	1.6	blocked	14.6	4.1
5.6	5.6B	1	11.1	12.7	Not recorded	10.2	10.4	7.5	12.4	blocked	blocked	blocked	blocked	blocked	blocked	blocked
10	10	1.3	15.1	12.3	Not recorded	15.2	9.6	not recorded	13.1	1	blocked	blocked	blocked	blocked	blocked	blocked

Location: Grum
Hole ID: 10M3

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	Port Label	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)
0.7	0.7A	20.6	20.6	20.5	20.6	20.7	20.7	20.6	20.7	20.6	20.9	20.7	19.2	20.7	20.7	20.8
0.7	0.7B	20.6	20.6	20.5	20.6	20.7	20.7	20.6	20.7	20.6	20.9	20.7	19.3	20.7	20.7	20.9
1.4	1.4A	19	18.9	20.1	20.5	20.1	19.7	20.2	18.7	18.3	blocked	blocked	blocked	blocked	blocked	blocked
1.4	1.4B	18.9	18.7	20.1	plugged	20	19.5	20.2	18.8	18.2	blocked	blocked	blocked	blocked	blocked	blocked
2.8	2.8A	16.3	16	13.7	16.1	16.6	13.1	20.4	14.4	15.7	15.5	14.7	16.2	blocked	15.3	16.3
2.8	2.8B	15.9	16	13.7	16.2	16.6	13.2	17.2	14.4	15.6	15.5	14.7	16.4	blocked	15.2	16.3
5.6	5.6A	13.7	15	14.6	plugged	15.8	14.2	18.8	17.1	blocked		15.7	15.7	blocked	19.3	21
5.6	5.6B	13.7	15	14.6	14.4	15.8	14.2	16	17	blocked	16	15.7	15.7	blocked	19.2	21
10	10A	16	13.5	14.5	15.7	14.1	14.4	20.9	17.3	blocked	15.2	15.5	17.9	blocked	19.7	21
10	10B	16	14.1	14.5	15.7	*18.2	14.4	20.9	17	blocked		blocked	blocked	blocked	blocked	blocked

Location: Grum
Hole ID: 30M3

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	Port Label	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)
0.7	0.7A	18.4	20.7	20.5	plugged	20.7	20.3	20.6	20.5	19.2	not recorded	20.8	20.1	20.8	20.4	20.3
0.7	0.7B	18.4	20.7	20.5	20.6	20.7	20.4	20.6	20.5	19.3	not recorded	20.8	20.1	20.8	20.4	20.3
1.4	1.4A	19.1	20.8	20.5	plugged	20.7	20.3	20.7	20.5	19.2	not recorded	20.7	20.1	20.8	20.3	20
1.4	1.4B	19	20.6	20.4	20.4	20.7	20.3	20.6	20.2	19.1	not recorded	20.7	20.1	20.8	20.3	20
2.8	2.8A	17.5	20.5	19.8	20.2	20.5	19.9	20.4	19.8	18.7	not recorded	blocked	blocked	blocked	blocked	blocked
2.8	2.8B	17.5	20.5	19.8	20.2	20.5	19.9	20.4	19.7	18.7	not recorded	blocked	blocked	blocked	blocked	blocked
5.6	5.6A	15.6	20.5	19.3	20.2	20.5	19.5	20.3	19.7	17.2	not recorded	blocked	blocked	blocked	blocked	blocked
5.6	5.6B	15.5	20.5	19.3	20.2	20.5	19.5	20.3	19.7	17.2	not recorded	blocked	blocked	blocked	blocked	blocked
10	10A	5.7	15.6	5.4	plugged	18	0	12.1	11.2	9.2	not recorded	blocked	blocked	blocked	blocked	blocked
10	10B	5.5	15.9	5.4	0	18	0	12.1	11.4	9.3	not recorded	blocked	blocked	blocked	blocked	blocked
20	20A	4.9	4	0	0	0.3	0.4	1.3	0	3.3	not recorded	blocked	blocked	blocked	blocked	blocked
20	20B	4.9	3.7	0	0	0.3	0.4	1.3	0	3.4	not recorded	blocked	blocked	blocked	blocked	blocked
30	30A	3.7	0.6	0.4	plugged	0.9	1	0.2	1.1	4.6	not recorded	blocked	blocked	blocked	blocked	blocked
30	30B	3.8	0.6	0.4	0	0.9	1	0.2	1.1	4.6	not recorded	blocked	blocked	blocked	blocked	blocked

Notes : '*' indicates suspect value
-grey cells indicate monitoring points that were found to be plugged during February 2006 or subsequent monitoring

Location: **Vangorda**
Hole ID: **10M4**

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	Port Label	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)
0.7	0.7	20.6	18.6	19.6	19	18.4	19.8	18.3	18.3	20.8	19.1	19.6	20.8	19.5	18.7	20.5
1.4	1.4	20.9	20.3	20.6	19.9	20.3	20.7	20.1	19.7	20.9	20	20.5	20.8	20.3	20	20.4
2.8	2.8A	21	20.7	20.8	20	20.7	20.8	20.3	19.6	20.9	20	20.7	20.8	20.6	20.3	20.4
2.8	2.8B	21	20.7	20.8	20	20.7	20.8	20.3	19.6	20.9	20.1	20.7	20.8	20.6	20.3	21
5.6	5.6A	20.8	20.6	20	19.8	20.7	20.1	20.1	18	20.8	19.4	20.1	20.6	20.6	20	20.9
5.6	5.6B	20.8	20.7	20	19.8	20.7	20.1	20.1	18	20.8	19.4	20.1	20.6	20.6	20	20
10	10	20.2	19.3	19.3	17.9	20.1	19.4	Not recorded	17.3	20.5	19.1	19.8	19.7	20.5	19.9	19.5

Location: **Vangorda**
Hole ID: **30M4**

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Depth	Port Label	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)	Oxygen (%)
0.7	0.7A	0	19.9	0.8	2.8	19.3	*2.2	17.4	1.7	0	9.8	9.2	0	9.2	17.5	0.04
0.7	0.7B	0	20	1.1	3.1	19.5	*2.7	17.5	7.9	blocked	10	9.2	0.1	9.2	17.4	0.04
1.4	1.4A	0	17.4	0	0.1	14.6	0	6.4	0	blocked	0.5	0.2	*20.9	0.2	12.8	0
1.4	1.4B	0	17.6	0	0.1	14.7	0	8	0.3	blocked	0.5	0.3	0.2	0.3	12.5	0
2.8	2.8A	0	0	0	0	0.1	0	0	0	0	0	0	0.2	0	0.1	0
2.8	2.8B	2.4	15.4	2.3	plugged	*18.6	*8.7	20.8	20.8	blocked	blocked	blocked	blocked	blocked	blocked	blocked
5.6	5.6A	2.4	2.8	2.3	2.1	1.7	1.8	2.3	1.4	2.9	1.4	3.3	0.5	3.3	4.2	0.07
5.6	5.6B	2.3	1	2.3	2.1	1.7	1.8	2.3	1.4	3	1.4	3.4	0.5	3.4	3.9	0.07
10	10A	2.3	6.9	2.2	plugged	*4.4	*2	*2.4 to 17.4	20.9	8.4	5.1	9	10.1	9	5.9	6.1
10	10B	8.3	6.9	6.4	plugged	*7.5	*6.9	8.1	4.3	8.4	5.2	8.9	10.1	8.9	5.8	6.1
20	20	0.2	0	0	0	0	0	0	0	0.4	0.09	0	1.3	0	0.2	0.05
30	30	14.9	0.4	4.4	2.7	0.7	4.9	0.2	0	14.3	1.3	4	14.5	4	0.4	Not recorded

Notes : '*' indicates suspect value
-grey cells indicate monitoring points that were found to be plugged during February 2006 or subsequent monitoring

Location: Faro
Hole ID: 60M1

Bead Depth (m)	Date Correction factor	20-Feb-03 Corrected Temp (°C)	7-Jun-03 Corrected Temp (°C)	16-Sep-03 Corrected Temp (°C)	27-Apr-04 Corrected Temp (°C)	7-Jun-04 Corrected Temp (°C)	30-Sep-04 Corrected Temp (°C)	19-May-05 Corrected Temp (°C)	16-Sep-05 Corrected Temp (°C)	27-Feb-06 Corrected Temp (°C)	26-May-06 Corrected Temp (°C)	22-Sep-06 Corrected Temp (°C)	26-Feb-07 Corrected Temp (°C)	25-May-07 Corrected Temp (°C)	10-Sep-07 Corrected Temp (°C)	10-Mar-08 Corrected Temp (°C)
0.7	0	3.2	13.5	9.4	4.7	15	7.8	12.2	12.2	0.5	10.1	11.6	-1.2	10.9	13.1	3.4
1.4	-0.1	7.9	14.3	15.6	7.5	14.9	13.6	13.4	15.8	5.9	10.8	15.1	4.2	11	16.2	7.1
2.8	0.1	16.9	18.6	23	14.9	17.8	22.5	16.7	22.7	15.6	15.7	22.1	14	14.9	21.5	14.6
5.6	0	29.2	28.1	30.7	27.2	26.6	30.7	26.4	29.2	27.5	26.4	29	26.6	24.7	27.4	25.6
10	-0.1	41.8	41.3	40.6	40.1	39.8	39.3	39.2	38.4	38.8	38.4	37.8	38.1	37.4	36.5	36.5
20	0.1	49.1	49	48.8	48.2	48.1	48.3	49	48.7	48.7	48.8	48.4	47.7	47.6	47.1	45.9
30	-0.1	36	36.3	36.4	36.8	36.8	37.2	37.4	37.7	37.9	38	38.1	38.2	38.1	38.1	38.1
40	-0.1	24.2	24.6	24.9	25.5	35.6	25.9	26.3	26.6	27	27.2	27.5	27.8	27.9	28.1	28.4
60	-0.1	6.3	6.5	7	7	7.1	7.7	7.7	8.3	8.3	8.5	9.1	9	9.2	9.9	9.9

Location: Faro
Hole ID: 30M1

Bead Depth (m)	Date Correction factor	20-Feb-03 Corrected Temp (°C)	7-Jun-03 Corrected Temp (°C)	16-Sep-03 Corrected Temp (°C)	27-Apr-04 Corrected Temp (°C)	7-Jun-04 Corrected Temp (°C)	30-Sep-04 Corrected Temp (°C)	19-May-05 Corrected Temp (°C)	16-Sep-05 Corrected Temp (°C)	27-Feb-06 Corrected Temp (°C)	26-May-06 Corrected Temp (°C)	22-Sep-06 Corrected Temp (°C)	26-Feb-07 Corrected Temp (°C)	25-May-07 Corrected Temp (°C)	10-Sep-07 Corrected Temp (°C)	10-Mar-08 Corrected Temp (°C)
0.7	0.1	1.7	7.4	11.2	3.4	11.2	9.6	8.2	12.6	2.8	5.9	11.5	2.3	6.6	13.5	4.8
1.4	-0.1	4	7.2	12.9	5.4	12.9	12.3	7.8	13.8	5.1	6	13.2	4.8	6.5	14.7	6.8
2.8	0.1	8.5	8.5	14.5	9.4	14.5	15.6	10.3	16.1	10.4	9.6	16	10	9.6	16.5	11.3
5.6	0.1	17.3	16.8	18.6	18.3	18.6	20.1	19	20.4	19.9	19.1	20.7	20	19.2	20.7	20.4
10	-0.1	27	27.4	27.4	28.4	27.4	28	28.8	28.5	29.3	29.3	29.1	29.7	29.5	29.2	30
20	0.2	34.5	35.5	35.8	34.7	35.8	36	36.3	37.1	35.8	36	37.5	35.4	36.3	37.8	35.6
30	0	34.6	34.2	34.7	34.6	34.7	35.2	35	35.8	36.3	36.1	36.6	37.2	37	37.1	37.4

Location: Grum
Hole ID: 10M2 Outside PVC

Bead Depth (m)	Date Correction factor	20-Feb-03 Corrected Temp (°C)	7-Jun-03 Corrected Temp (°C)	16-Sep-03 Corrected Temp (°C)	27-Apr-04 Corrected Temp (°C)	7-Jun-04 Corrected Temp (°C)	30-Sep-04 Corrected Temp (°C)	19-May-05 Corrected Temp (°C)	16-Sep-05 Corrected Temp (°C)	27-Feb-06 Corrected Temp (°C)
0.7	0.1	-4.8	5	4.1	-0.6	5.3	2.9	3.9	8.7	terminal box corroded
1.4	0.2	-0.2	-0.2	6.6	-0.3	-0.1	5.4	2.4	10	
2.8	0.2	1.2	0.3	6.2	0.7	0.5	6	1.6	8.3	
5.6	0	3	2	3.9	2.4	2.1	5.2	2.7	5.8	
10	0.1	3.3	3.1	2.9	3.3	3.2	3.1	3.8	4.4	

Location: Grum
Hole ID: 10M2 Inside PVC

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Bead Depth (m)	Correction factor	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)
0.7	0.1	-3.3	3.7	4.9	Not recorded	3.6	3.2	2.3	7.6	-1.4	1.8	6.2	-2.8	1.7	8.8	-0.8
1.4	0.2	-0.3	-0.4	6.6	Not recorded	-0.3	5.1	0.7	8.2	0.1	0.4	6.8	-0.3	-0.1	8.7	0.1
2.8	0.2	1.2	0.3	6	Not recorded	0.6	6.6	1.4	7.8	1.8	1.2	7.1	1.4	0.9	7.3	1.6
5.6	0	3.1	2	3.8	Not recorded	2.1	5.1	2.6	5.1	3.5	2.6	4.9	3.2	2.4	4.1	3.3
10	0.1	3.4	3.1	3	Not recorded	3.2	3.1	3.7	3.6	4.1	4	3.8	4	4	3.7	4

Location: Grum
Hole ID: 10M3

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Bead Depth (m)	Correction factor	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)
0.7	0.2	-4.9	6.1	6.5	-0.9	7.3	4.2	3.8	8.5	-7.5	2.2	7	-7.4	3	9.8	9.8
1.4	0.2	-1.9	2.1	7.9	-1	3	5.9	0.3	8.9	-3.6	-0.1	7.3	-4.2	0	9.7	9.7
2.8	0.2	1.1	0	6.8	0.2	0.3	7.1	0.9	8	0.7	0.2	6.7	0.4	0	7.3	7.3
5.6	0	3.8	2.2	4.8	2.6	2.2	5.8	2.6	5.3	3.4	2	4.5	3	1.7	4.1	4.1
10	0.1	5	4.6	4.3	4.5	4.3	4.3	4.7	4.5	4.9	4.5	4.1	4.4	4.2	3.9	3.9

Location: Grum
Hole ID: 30M3

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Bead Depth (m)	Correction factor	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)
0.7	-0.1	-4.6	5.2	7	-1.3	5.5	4.6	3	8.1	-6.6	1.7	6.4	-7.9	2.3	9.4	-4.9
1.4	0	-1.4	1.8	8	-1	2.1	6.5	0.2	8.8	-2.4	0.3	7.1	-3.7	-0.2	9.7	-3
2.8	0.1	2	1	7.5	1.2	1.4	8	1.8	8.6	2.1	1.4	7.9	1.5	0.9	8.5	1.1
5.6	-0.1	6.1	4.7	6.9	5.4	4.7	7.8	5.1	7.6	6.4	5.1	7.4	6.3	5	7.3	6.3
10	0.1	9.8	9.4	9.6	10.3	9.3	9.5	10.1	10.2	10.8	10.4	10.3	10.7	10.8	10.6	11
20	0.1	11.8	12	11.8	12.3	12.2	12.2	12.3	12.2	12.3	12.7	12.5	12.5	13.1	13	12.9
30	0.1	10	9.9	9.8	10.1	10	10	10.3	10.1	10.4	10.5	10.4	10.6	10.9	10.8	11

Location: Vangorda
Hole ID: 10M4

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Bead Depth (m)	Correction factor	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)
0.7	0.1	-0.7	13	10.2	3.3	14	6.8	10.5	12	-6.8	8.9	10	-6.7	8.6	12.8	-3.7
1.4	0	3.7	12.9	15.3	5.6	12.7	11.5	11.1	15.1	-0.9	8.6	12.5	-2.8	7.1	14.4	-2.4
2.8	0.2	7.5	12.7	18.4	9	12.2	15.3	11.5	18.5	3.8	9.8	15.3	0.9	7.4	15.6	0.2
5.6	-0.1	16.7	15.2	22.6	14.1	14.4	20.8	13.8	20.8	11.8	12.6	18.2	8.4	9.2	15.7	6.5
10	0	31.6	29.3	29.5	27	27.3	27.6	27.2	27.6	25.8	23.7	23.1	21	18.7	18.8	16.5

Location: Vangorda
Hole ID: 30M4

	Date	20-Feb-03	7-Jun-03	16-Sep-03	27-Apr-04	7-Jun-04	30-Sep-04	19-May-05	16-Sep-05	27-Feb-06	28-May-06	22-Sep-06	26-Feb-07	25-May-07	10-Sep-07	10-Mar-08
Bead Depth (m)	Correction factor	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)	Corrected Temp (°C)
0.7	-0.1	-5.3	8.6	7.4	-1.3	10.4	5.4	6.7	9.8	-6.6	5.6	8.3	-6.3	5.1	11.7	-3.4
1.4	0	-1.3	6	10.3	-0.6	7.2	8.2	5.4	11.4	-1.5	3.9	10.1	-2.3	3.2	12.9	-1.6
2.8	0	3.7	4.5	11.7	3.1	5.5	11.9	4.9	12.6	4	4	12.1	3.5	3.3	13	3.6
5.6	-0.1	11.7	9.9	12.5	10.7	10.2	14	10.8	13.4	12.1	10.7	13.5	11.9	10.4	13	11.9
10	-0.1	16	16	15.6	16.5	16.4	16.2	16.7	16.4	17.3	17.2	16.8	17.7	17.5	17	17.9
20	-0.2	17.3	17.6	17.6	18.4	18.5	18.5	18.9	19	19.4	19.7	18.8	20.4	20.4	20.7	21.2
30	0	13.5	13.8	13.8	14.7	14.7	15	15.7	15.8	16.3	16.5	16.5	17.1	17.3	17.4	17.9