

# Memorandum

**To:** BWCD BOARD OF DIRECTORS  
**From:** ERIC MANGEOT   
**CC:** CHRIS GEIGER  
**Date:** OCTOBER 29, 2010  
**File:** APPLICATION  
**Re:** LA FARGE WEST, INC.

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**Applicant Name:** La Farge West, Inc.

**Type of Use:** Domestic  Commercial   
Industrial  Agricultural

**Amount:** 44.6 AF 0.189 CFS 85.0 gpm

**Location:** Area A  Area B  Inclusion

County: GARFIELD Contiguous:

BWCD Division: 4

**Mid Valley Metro District Notice Required?** Yes  No

**Blue Creek Water Rights Applied?** Yes  No

**Comments:** This application requests the use of District water to offset depletions associated with the LaFarge Cerise Pit gravel operation. The Applicant's engineer, Applegate Group, Inc., has provided a monthly diversion and lagged depletion schedule. All uses were assumed to be 100 percent consumptive. Total depletions are 44.6 acre-feet including 10 percent transit losses.

The property is within Division 4 of the District. A BWCD map is attached showing the location of the property. The portion of the property is leased by the Applicant from Clifford Cerise Ranch Co, LLLP located in Sections 25 and 26, Township 7 South, Range 88 West, of the 6<sup>th</sup> P.M.

The Applicant desires to drill two proposed wells on the property and within Area A as follows:

- Well No. 1 - SW1/4 SE/1/4 of Section 26, Township 7 South, Range 88 West from the 6<sup>th</sup> P.M. at a point 1,160 feet from the South section line

and 1,630 feet from the East section line in Area A.

- Well No. 2 - NE1/4 SE1/4 of Section 26, Township 7 South, Range 88 West of the 6<sup>th</sup> P.M. at a point 1,720 feet from the South section line and 1,000 feet from the East section line.

Applicant will apply for a "-F" well permit upon execution of the water allotment contract. RESOURCE recommends that the Division of Water Resources confirm that the locations of the well are in Area A prior to issuance of the well permit.

Water User :	LaFarge West, Inc.
Analysis Date :	October 28, 2010
District Area:	A
Source Series:	4
Maximum Demand:	85 0.189 (GPM) (CFS)

**BASALT WATER CONSERVANCY DISTRICT  
WATER REQUIREMENTS**  
(acre feet)

Month	Total Demand				Consumptive Use						(13)* Lagged Depletions	(13) Source of Aug/Replace		
	(1) Domestic In-house	(2) Industrial or Other	(3) Lawn Irrigation	(4) Crop Irrigation	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Industrial or Other	(9) Lawn Irrigation	(10) Crop Irrigation			(11) Livestock	(12) TOTAL
January	0.02	0.50	0.00	0.00	0.00	0.52	0.02	0.50	0.00	0.00	0.00	0.52	3.74	GNM
February	0.02	0.50	0.00	0.00	0.00	0.52	0.02	0.50	0.00	0.00	0.00	0.52	2.98	GNM
March	0.02	2.04	0.00	0.00	0.00	2.06	0.02	2.04	0.00	0.00	0.00	2.06	3.01	GNM
April	0.02	4.60	0.00	0.00	0.00	4.62	0.02	4.60	0.00	0.00	0.00	4.62	2.95	GNM
May	0.02	4.66	0.00	0.00	0.00	4.68	0.02	4.66	0.00	0.00	0.00	4.68	3.42	GNM
June	0.02	4.66	0.00	0.00	0.00	4.68	0.02	4.66	0.00	0.00	0.00	4.68	3.60	GNM
July	0.02	4.66	0.00	0.00	0.00	4.68	0.02	4.66	0.00	0.00	0.00	4.68	3.94	GNM
August	0.02	4.66	0.00	0.00	0.00	4.68	0.02	4.66	0.00	0.00	0.00	4.68	4.08	GNM
September	0.02	4.66	0.00	0.00	0.00	4.68	0.02	4.66	0.00	0.00	0.00	4.68	4.07	GNM
October	0.02	3.09	0.00	0.00	0.00	3.11	0.02	3.09	0.00	0.00	0.00	3.11	4.32	GNM
November	0.02	1.53	0.00	0.00	0.00	1.55	0.02	1.53	0.00	0.00	0.00	1.55	4.22	GNM
December	0.02	1.53	0.00	0.00	0.00	1.55	0.02	1.53	0.00	0.00	0.00	1.55	4.17	GNM
TOTALS →	0.18	40.28	0.00	0.00	0.00	40.46	0.18	40.28	0.00	0.00	0.00	40.46	44.51	

**Assumptions**

(1)	Domestic Use = 5,000 gallons per month	(5)	# of Livestock @ 11 gals/day	0
(2)	Industrial / Other Demand (af)	(7), (8)	% CU for Domestic/Industrial	100
(3)	Sq. Ft. of Lawn Irrigated Lawn Application Rate (af/ac)	(9)	% Lawn Irrig. Efficiency Consumption of Irrig. (af/ac)	80 0.000
(4)	Acreage of Crop Irrigated Crop Application Rate (af/ac)	(10)	% Crop Irrig. Efficiency Consumption of Irrig. (af/ac)	80 0.000
		(9-10)	Elevation (feet)	6250

\*(13) Total Includes 5% Transit Loss, 10% from Green Mtn.  
Lagged depletions from LaFarge West, Inc. Engineer.



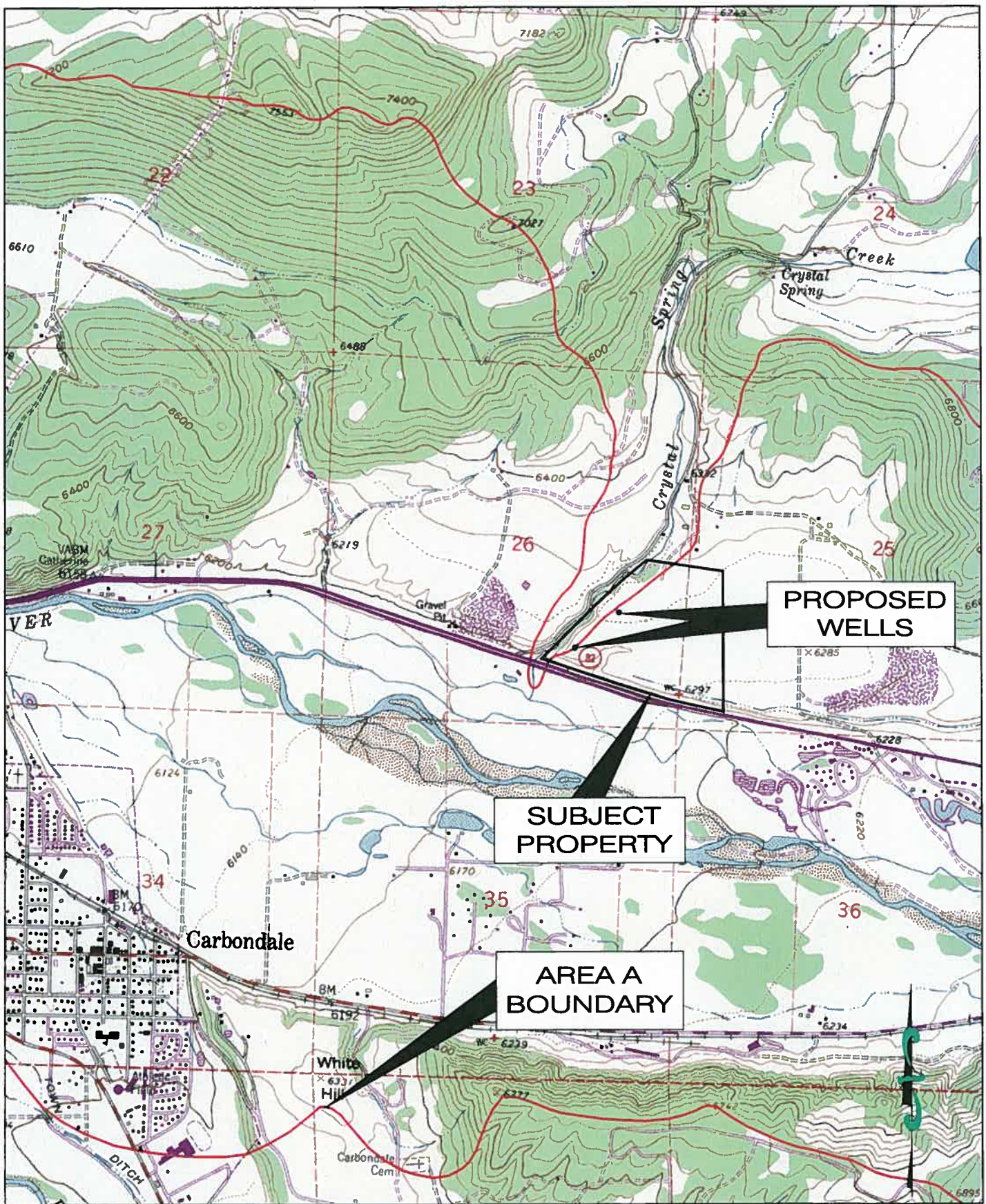


Figure 1: LaFarge West, Inc.

File: 033-7.2  
Date: 10/28/10

Basalt Water Conservancy District



Scale: 1"=2,000'

**RESOURCE**  
ENGINEERING, INC.

909 Colorado Avenue  
Glenwood Springs, CO 81801  
(970) 945-6777 Voice 945-1137 Facsimile



**Crise Ranch Pit Water Use and Lagging Estimate**  
Lafarge West, Inc.

Prepared by: Applegate Group, Inc.  
AG Job #: 05-105  
Date: 10/27/2010

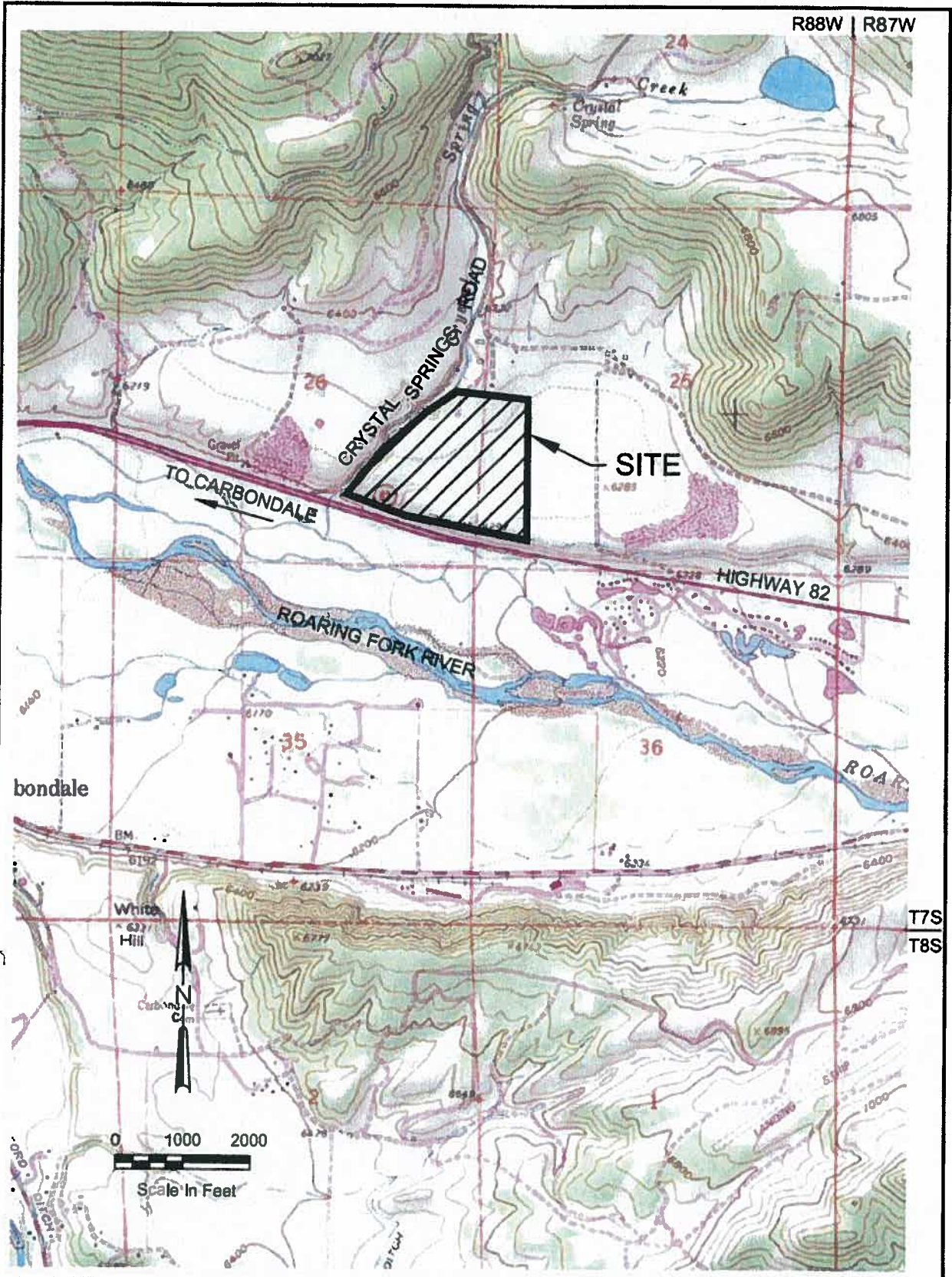
Operational Assumptions	
Annual Aggregate Production:	500,000 tons
Annual Dust Control Use:	3,200,000 gallons
Annual Truck Washing Use:	160,000 gallons
Annual Concrete Production:	100,000 CY
Exposed Groundwater Area:	0.0 acres

Lagging Assumptions	
Distance from well to river (X):	2,400 feet
Distance from river to boundary (W):	4,700 feet
Transmissivity (T):	50,000 gpd/ft
Specific Yield (S):	0.2

Month	Operational Losses										Domestic		Evaporative Losses		Total Water Use (acre-feet)	Steady-State Lagged Well Depletions (acre-feet)	
	% of Annual Aggregate Production	Washed Sand & Gravel Production (tons)	Moisture Loss %	Dust Control of Roads/Crusher (gallons)	(acre-feet)	Truck Washing (gallons)	(acre-feet)	% of Annual Concrete Production	Concrete Plant Production (CY)	Concrete Plant Water Use (gallons)	(acre-feet)	Domestic Supply (gallons)	(acre-feet)	Exposed Area (acres)			Evap (acre-feet)
January	0%	0	0.00	0	0.00	0	0.00	3.33%	3,333	166,667	0.51	5,000	0.02	0.0	0.00	0.53	3.40
February	0%	0	0.00	0	0.00	0	0.00	3.33%	3,333	166,667	0.51	5,000	0.02	0.0	0.00	0.53	2.71
March	6.25%	31,250	0.92	200,000	0.61	10,000	0.00	3.33%	3,333	166,667	0.51	5,000	0.02	0.0	0.00	2.06	2.74
April	12.50%	62,500	1.84	400,000	1.23	20,000	0.00	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.62	2.68
May	12.50%	62,500	1.84	400,000	1.23	20,000	0.06	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.68	3.11
June	12.50%	62,500	1.84	400,000	1.23	20,000	0.06	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.68	3.27
July	12.50%	62,500	1.84	400,000	1.23	20,000	0.06	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.68	3.58
August	12.50%	62,500	1.84	400,000	1.23	20,000	0.06	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.68	3.71
September	12.50%	62,500	1.84	400,000	1.23	20,000	0.06	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.68	3.70
October	12.50%	62,500	1.84	400,000	1.23	20,000	0.06	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	4.68	3.93
November	6.25%	31,250	0.92	200,000	0.61	10,000	0.03	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	3.11	3.84
December	0%	0	0.00	0	0.00	0	0.00	10.0%	10,000	500,000	1.53	5,000	0.02	0.0	0.00	1.55	3.79
<b>Total</b>	<b>100%</b>	<b>500,000</b>	<b>14.72</b>	<b>3,200,000</b>	<b>9.82</b>	<b>160,000</b>	<b>0.40</b>	<b>100%</b>	<b>100,000</b>	<b>5,000,000</b>	<b>15.34</b>	<b>60,000</b>	<b>0.18</b>	<b>0.0</b>	<b>40.46</b>	<b>40.46</b>	

Notes:  
Operational assumptions (including seasonal variation of aggregate and concrete production) provided by Lafarge personnel.  
Lagging performed using the AWAS tool.

Monday, March 31, 2008 2:39:49 PM DRAWING: P:\0138 Lafarge\0138.019.00 Clrese Property (Carbondale)\Drawings\Cerise Property Location.dwg



**DEERE & AULT**  
CONSULTANTS, INC.

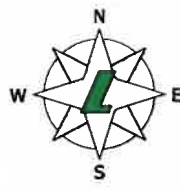
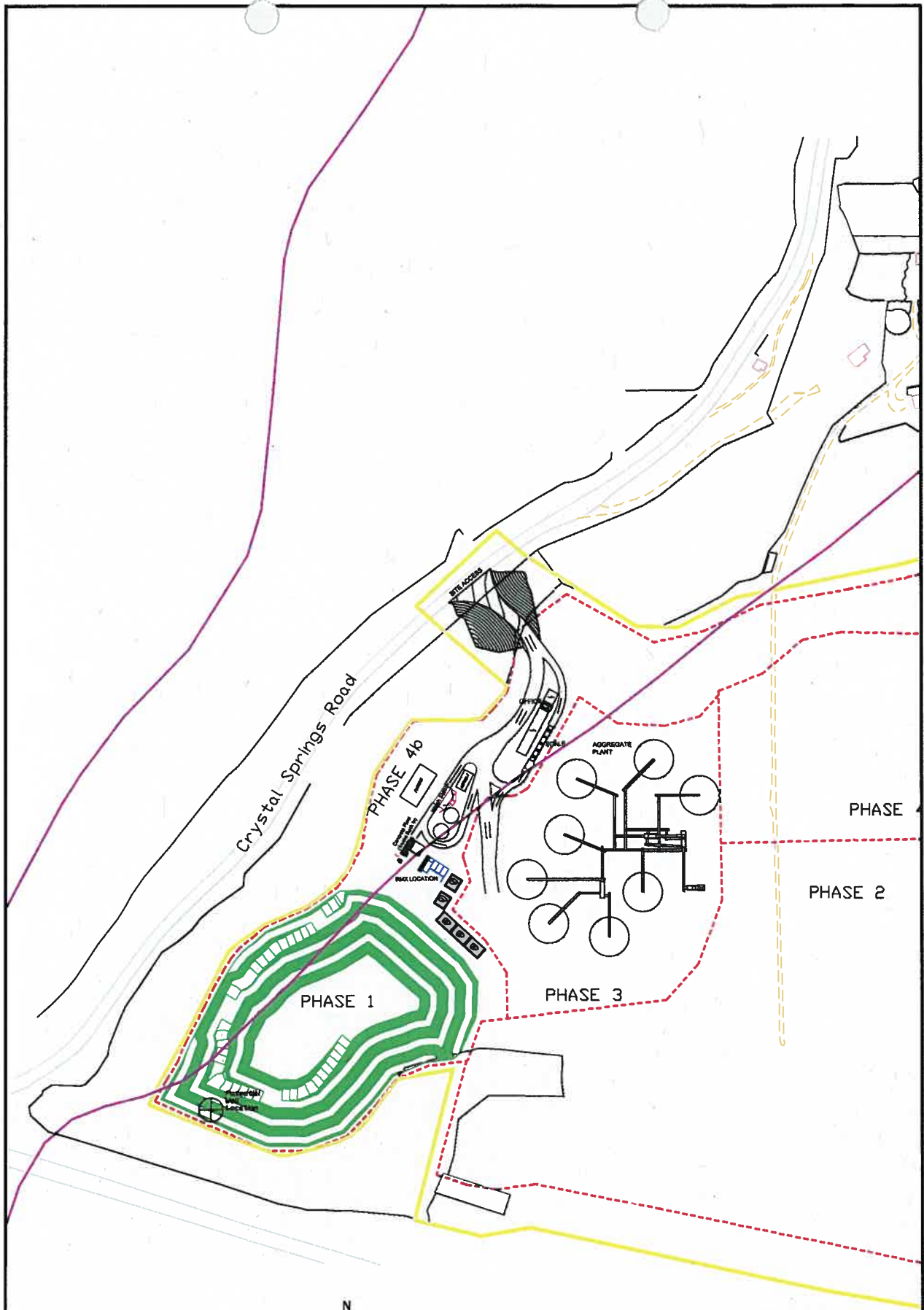
**CERISE PROPERTY**  
Location Map

Figure No.  
1

Job No. 0139.019.00

Scale: AS NOTED





<b>LARSEN</b> AGGREGATES & CONCRETE			
Cerise			
Site/Plant Layout			
DATE BY: BDE	DATE: 10/27/10	SCALE: 1"=200'	
PROJECT NO.:		SHEET NO.:	1 OF 1